

# **Curriculum Vitae**

**Prof. Dr. Alireza Heidari, *Ph.D., D.Sc.***

**Full Distinguished Professor and Academic Tenure of Chemistry**

**and**

**Enrico Fermi Distinguished Chair in Molecular Spectroscopy**

**and**

**Head of Cancer Research Institute (CRI)**

**and**

**Director of the BioSpectroscopy Core Research Laboratory at**

**Faculty of Chemistry, California South University (CSU), Irvine,**

**California, USA**

**and**

**President of the American International Standards Institute**

**(AIS), Irvine, California, USA**

**Profile Official Page:**

<http://calsu.us/index.php/member/prof-dr-alireza-heidari/>

**The h-Index Based on Google Scholar Metrics: 81**

<https://scholar.google.com/citations?user=2yKnXwYAAAAJ&hl=en>

**The i10-Index Based on Google Scholar Metrics: 306**

<https://scholar.google.com/citations?user=2yKnXwYAAAAJ&hl=en>

### **E-Mail Addresses:**

[Scholar.Researcher.Scientist@gmail.com](mailto:Scholar.Researcher.Scientist@gmail.com)

[Alireza.Heidari@calsu.us](mailto:Alireza.Heidari@calsu.us)

[Central@aisi-usa.org](mailto:Central@aisi-usa.org)

### **EDUCATION:**

#### **Jan 2014 – Jul 2014:**

Faculty of Chemistry, California South University (CSU), Irvine, California, USA.

Participate in “*Modern Molecular Electronic–Structure Computations Theory*” and also “*Nanochemistry*” as postdoctoral research fellow.

#### **Feb 2013 – Oct 2013:**

School of Chemistry, Faculty of Science, Monash University, Melbourne, Victoria, Australia.

Participate in “*Project Management*” and also “*Oncology, Human Cancer Tissues and Synchrotron Radiation*” as postdoctoral research fellow.

#### **Mar 2009 – Dec 2012:**

Faculty of Chemistry, California South University (CSU), Irvine, California, USA.

Ph.D., D.Sc. Chemistry (Biophysical Chemistry) – **GPA:** 3.95/4.00 (19.75/20).

#### **Sep 2006 – Aug 2008:**

Faculty of Chemistry, Islamic Azad University (IAU), North Tehran Branch, Tehran, Iran.

M.Sc. Chemistry (Physical Chemistry) – **GPA:** 19.08/20.

#### **Sep 2001 – Jul 2005:**

Faculty of Chemistry, Islamic Azad University (IAU), North Tehran Branch, Tehran, Iran.

B.Sc. Chemistry (Pure Chemistry) – **GPA:** 19.08/20.

## **WORK EXPERIENCES:**

### **2001 – 2010:**

- Industrial, Investigate & International LARA Company, Tehran, Iran.
- FGI Industrial Company, Tehran, Iran.

### **2007 – 2011:**

- Pishtaz Tak Chemi Company, Qazvin, Iran.
- NASR ASIA PETRO GOSTAR Company, Tehran, Iran.

### **2012 – Present:**

- President of American International Standards Institute (AISI), Irvine, California, USA.

### **2015 – 2019:**

- Board of Directors Member at Pishtaz Lian Chemi Company, Qazvin, Iran.

## **ACADEMIC & RESEARCH EXPERIENCES:**

### **2007 – 2008:**

**Imam Khomeini International University (IKIU), Qazvin, Iran.**

#### **Duties:**

➤ **Research volunteer under the supervision of:**

- Dr. G. Reza Karimi, Ph.D. Assistant Professor and Head of Biotechnology, Department of Mineral & Petroleum Engineering.
- Dr. Masoud Rajabi, Ph.D. Assistant Professor, Department of Materials Engineering, Faculty of Engineering and Technology.

**Babol Noshirvani University of Technology, Babol, Iran.**

#### **Duties:**

➤ **Research volunteer under the supervision of:**

- Prof. Dr. Hossein Eisazadeh, Ph.D. Full Professor & Head of Faculty of Chemical Engineering, Department of Chemical Engineering.
- Dr. Ali Akbar Ranjbar, Ph.D. Associate Professor & Dean of School of Mechanical Engineering, Department of Mechanical Engineering.

**2010 – 2014:**

- Volunteer Visitor, Department of Mathematical Sciences, Delaware State University, Dover, Delaware, USA, 2010.
- Volunteer Visitor, Department of Industrial Engineering, Universidad Politécnica De Cartagena, Cartagena, Spain, 2010.
- Volunteer Visitor, Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, UK, 2010.
- Volunteer Visitor, Department of Mathematics, Ege University, Izmir, Turkey, 2011.
- Postdoctoral Research Fellow, School of Chemistry, Faculty of Science, Monash University, Melbourne, Victoria, Australia, 2013 – 2014.
- Postdoctoral Research Fellow, Faculty of Chemistry, California South University (CSU), Irvine, California, USA, 2014.

**TEACHING EXPERIENCES:**

**2007 – 2008:**

**Islamic Azad University (IAU), Qazvin Branch, Qazvin, Iran.**

- Teacher at the laboratory for Physics I & II for undergraduate students studying Mechanics Engineering, Industrial Engineering, Computer Engineering, IT Engineering, Medical Engineering, and Electrical & Electronic Engineering.
- Scientific member and instructor at the departments of Electrical & Electronic Engineering, Faculty of Electrical, IT, Computer & Biomedical Sciences.

**Caspian Higher Education Institute, Qazvin, Iran.**

- Scientific member and instructor at the department of ICT & Hardware Engineering.
- Teacher at the laboratory for Physics I & II for Associates Degree students studying Industrial Engineering and Software Engineering, in addition to B.Sc. Industrial Engineering Students.
- Teaching Applied Mathematics/Engineering, Mathematics/Numerical Analysis and Computation for B.Sc. ICT Engineering Students.
- Teaching General Mathematics/Differential Equations and Engineering Mathematics for B.Sc. Hardware Engineering Students.

- Teaching Physics I (Mechanics) and Physics II (Electromagnetic Physics) to B.Sc. Industrial Engineering Students.

## **PUBLICATIONS (Science Citation Index (SCI)/International Scientific Indexing (ISI)/Medline/PubMed/Scopus Journals):**

- [1] B. Adib, **A. Heidari**, P. Zarshekan Zamanpour, “*Calculation of Bose–Einstein condensation of gases in a harmonic potential trap using a macro canonical ensemble by use of the mathematical and Hermitian functions*”, Asian Journal of Chemistry, Volume 21, Number 4, Pages 2593–2609, 2009.
- [2] **A. Heidari**, A. Biswas, “*Dynamics of relativistic solitons due to pseudo Sine–Gordon equation*”, International Journal of Theoretical Physics, Volume 49, Issue 5, Pages 1096–1105, 2010.
- [3] R. Sassaman, **A. Heidari**, F. Majid, E. Zerrad, A. Biswas, “*Topological and non–topological solitons of the generalized Klein–Gordon equations in 1+2 dimensions*”, Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis, Volume 17, Number 2, Pages 275–286, 2010.
- [4] R. Sassaman, **A. Heidari**, A. Biswas, “*Topological and non–topological solitons of nonlinear Klein–Gordon equations by He’s semi–inverse variational principle*”, Journal of The Franklin Institute, Volume 347, Issue 7, Pages 1148–1157, 2010.
- [5] O. Anwar Bég, J. Zueco, S. K. Ghosh, **A. Heidari**, “*Unsteady magneto hydrodynamic heat transfer in a semi–infinite porous medium with thermal radiation flux: Analytical and numerical study*”, Advances in Numerical Analysis, Volume 2011, Article ID 304124, 17 Pages, 2011.
- [6] **A. Heidari**, O. Anwar Bég, “*An analytical and numerical investigation of the dissipative chaos in superconductor super lattices*”, International Journal of Applied Mathematics and Mechanics, Volume 7, Issue 18, Pages 22–37, 2011.
- [7] **A. Heidari**, O. Anwar Bég, “*Numerical solution of the heteronuclear diatomic Schrödinger equation using various empirical potential functions via the Numerov method*”, International Journal of Applied Mathematics and Mechanics, Volume 7, Issue 18, Pages 38–55, 2011.
- [8] **A. Heidari**, N. Heidari, M. Ghorbani, “*Study and investigation of interaction and association of water molecules in carbon nanotubes and calculation of their thermodynamics properties using molecular dynamics simulation: A mathematical approach*”, Journal of Computational and Theoretical Nanoscience, Volume 9, Number 10, Pages 1647–1657, 2012.
- [9] M. A. Balci, A. Yıldırım, S. T. Mohyud–Din, **A. Heidari**, “*Construction of solitary solutions and periodic solutions of coupled higher–dimensional Burgers equations using*

*the homotopy perturbation method*”, World Applied Sciences Journal, Volume 16, Issue 3, Pages 329–330, 2012.

- [10] **A. Heidari**, N. Heidari, M. Godarzvand Chegini, R. Amiri, F. Khademi Jahromi, M. Ghorbani, “*A new method for synthesis of nanocomposite membranes for separation of gases*”, Advanced Science Letters, Volume 11, Number 1, Pages 126–134, 2012.
- [11] **A. Heidari**, N. Heidari, M. Ghorbani, “*A new method for synthesis of single-wall carbon nanotubes using single metallic and bimetallic nanocatalysts*”, Journal of Computational and Theoretical Nanoscience, Volume 10, Number 1, Pages 37–47, 2013.
- [12] **A. Heidari**, S. Vedad, M. Ghorbani, “*A new approach to utilizing two-state approximation in hydrogen formation through landing proton on positronium: A computational investigation and study*”, Fundamental Journal of Modern Physics, Volume 2, Issue 2, Pages 89–104, 2011.
- [13] **A. Heidari**, S. Vedad, O. Anwar Bég, M. Ghorbani, “*An analytical and numerical investigation of the quarkonium spectroscopy using the generalized Klein–Gordon equation: A computational study*”, Fundamental Journal of Mathematical Physics, Volume 1, Issue 2, Pages 57–68, 2011.
- [14] **A. Heidari**, S. Vedad, O. Anwar Bég, M. Ghorbani, “*Simulation of muonic catalyzed fusion using the Monte–Carlo method*”, Fundamental Journal of Mathematical Physics, Volume 1, Issue 2, Pages 69–98, 2011.
- [15] S. Ahmed, O. Anwar Bég, S. Vedad, N. Heidari, M. Zeinalkhani, M. Ghorbani, **A. Heidari**, “*Perturbation analysis of dissipation and thermal radiation effects on hydro magnetic transient mixed convective heat and mass transfer with transpiration*”, Fundamental Journal of Thermal Science and Engineering, Volume 2, Issue 1, Pages 13–36, 2012.
- [16] J. Zueco, S. Vedad, M. Ghorbani, N. Heidari, M. Zeinalkhani, **A. Heidari**, “*Performance analysis of shell and tube heat exchangers using an educational application*”, Fundamental Journal of Thermal Science and Engineering, Volume 2, Issue 1, Pages 37–52, 2012.
- [17] **A. Heidari**, S. Vedad, O. Anwar Bég, M. Ghorbani, “*An analytical approach to the non–commutative space effect in the Bethe–Salpeter equation for two particles’ bound state: Quantum electrodynamic modelling*”, Fundamental Journal of Modern Physics, Volume 2, Issue 2, Pages 105–117, 2011.
- [18] **A. Heidari**, S. Vedad, O. Anwar Bég, M. Ghorbani, “*A numerical method for solving the Lippmann–Schwinger integral equation with the radial interaction potentials*”, Fundamental Journal of Modern Physics, Volume 2, Issue 2, Pages 119–138, 2011.
- [19] E. Hosseini Nezhad, N. Heidari, M. Ghorbani, **A. Heidari**, “*A new approach to mechanochemically synthesizing  $Al_2O_3/Cu-Cr$  nanocomposites*”, International Journal of Scientific & Engineering Research, Volume 3, Issue 4, 2012.

- [20] S. Afsharmehr, M. Zeinalkhani, M. Ghorbani, **A. Heidari**, “*Stability analysis for carbon nanotube based field effect transistors*”, International Journal of Scientific & Engineering Research, Volume 3, Issue 5, 2012.
- [21] R. Bhargava, O. Anwar Bég, S. Vedad, M. Zeinalkhani, **A. Heidari**, “*Finite element analysis of multi-physical slip flow and heat transfer from a porous rotating disk*”, Int. J. Pure Appl. Sci. Technol., Volume 11, Number 1, Pages 8–33, 2012.
- [22] S. Ahmed, O. Anwar Bég, S. Vedad, M. Zeinalkhani, **A. Heidari**, “*Mathematical modelling of magnetohydrodynamic transient free and forced convective flow with induced magnetic field effects*”, Int. J. Pure Appl. Sci. Technol., Volume 11, Number 1, Pages 109–125, 2012.
- [23] **A. Heidari**, N. Heidari, M. Ghorbani, “*Investigating the effects of nanosized aluminum oxide powder addition on  $\text{Bi}_{1.6}\text{Pb}_{0.4}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$  superconductor using XRD patterns*”, Advanced Science, Engineering and Medicine, Volume 4, Number 5, Pages 405–407, 2012.
- [24] **A. Heidari**, M. Ghorbani, “*Coherent quantum transport in ferromagnet-superconductor-ferromagnet grapheme-based junctions*”, Advanced Science, Engineering and Medicine, Volume 4, Number 5, Pages 401–404, 2012.
- [25] **A. Heidari**, S. Vedad, “*Analytical and numerical investigation of soliton solutions of coupled equations in quadratic media: A novel approach*”, Studies in Mathematical Sciences, Volume 4, Number 2, Pages 54–69, 2012.
- [26] **A. Heidari**, O. Anwar Bég, M. Ghorbani, “*Study of the vibrational characteristics of the homonuclear diatomic nuclear Schrödinger equation with a Numerov method using a number of empirical potential functions*”, Russian Journal of Physical Chemistry A, Volume 87, Number 2, Pages 216–224, 2013.
- [27] E. Hosseini Nezhad, M. Ghorbani, M. Zeinalkhani, **A. Heidari**, “*A new technique to absorb yellow GX anionic pigments*”, American Journal of Chemistry, Volume 3, Number 1, Pages 6–9, 2013.
- [28] E. Hosseini Nezhad, M. Ghorbani, M. Zeinalkhani, **A. Heidari**, “*DNA encapsulation in an anionic reverse micellar solution of dioctyl sodium sulfosuccinate*”, Physical Chemistry, Volume 3, Number 1, Pages 7–10, 2013.
- [29] **A. Heidari**, S. Vedad, F. Ghorbani, M. Ghorbani, “*Particle-in-cell simulations of Raman forward scattering instability in low-density plasmas: A computational study*”, International Journal of Theoretical and Mathematical Physics, Volume 2, Number 6, Pages 215–220, 2012.
- [30] **A. Heidari**, “*An investigation of the role of DNA as molecular computers: A computational study on the Hamiltonian path problem*”, International Journal of Scientific & Engineering Research, Volume 5, Issue 1, Pages 1884–1889, 2014.
- [31] **A. Heidari**, “*Writing method of a research paper*”, International Journal of Recent and Futuristic Chemistry, 2015.
- [32] A. Miller, **A. Heidari**, “*Review on manufacturing and fabrication nanoparticles methods for processing cadmium oxide (CdO) nanoparticles colloidal solution*”, International Journal of Theoretical, Computational and Mathematical Chemistry, Volume 1, Number 1, Pages 1–3, 2015.

- [33] C. Brown, **A. Heidari**, “*Experimental and computational investigation of catalytic effect of aluminum nitride nanocrystal (AlN) on the polymerization of benzene, naphthalene, anthracene, phenanthrene, chrysene and tetracene*”, International Journal of Theoretical, Computational and Mathematical Chemistry, Volume 1, Number 1, Pages 4–6, 2015.
- [34] C. Thomson, **A. Heidari**, “*A novel experimental and computational study of Michaelis–Menten kinetics for catalyst processes innovation, characterization and carrier applications*”, International Journal of Theoretical, Computational and Mathematical Chemistry, Volume 1, Number 1, Pages 7–10, 2015.
- [35] **A. Heidari**, C. Brown, “*Study of surface morphological, phytochemical and structural characteristics of rhodium (III) oxide (Rh<sub>2</sub>O<sub>3</sub>) nanoparticles*”, International Journal of Pharmacology, Phytochemistry and Ethnomedicine, Volume 1, Issue 1, Pages 15–19, 2015.
- [36] **A. Heidari**, C. Brown, “*Study of composition and morphology of cadmium oxide (CdO) nanoparticles for eliminating cancer cells*”, J Nanomed Res., Volume 2, Issue 5, 20 Pages, 2015.
- [37] **A. Heidari**, “*An experimental biospectroscopic study on seminal plasma in determination of semen quality for evaluation of male infertility*”, Int J Adv Technol 7: e007, 2016.
- [38] **A. Heidari**, “*Extraction and preconcentration of N-tolyl-sulfonyl-phosphoramid-saeure-dichlorid as an anti-cancer drug from plants: A pharmacognosy study*”, J Pharmacogn Nat Prod 2: e103, 2016.
- [39] **A. Heidari**, “*A thermodynamic study on hydration and dehydration of DNA and RNA-amphiphile complexes*”, J Bioeng Biomed Sci S: 006, 2016.
- [40] **A. Heidari**, “*Computational studies on molecular structures and carbonyl and ketene groups’ effects of singlet and triplet energies of azidoketene O=C=CH-NNN and isocyanatoketene O=C=CH-N=C=O*”, J Appl Computat Math 5: e142, 2016.
- [41] **A. Heidari**, “*Study of irradiations to enhance the induces the dissociation of hydrogen bonds between peptide chains and transition from helix structure to random coil structure using ATR-FTIR, Raman and <sup>1</sup>HNMR spectroscopies*”, J Biomol Res Ther 5: e146, 2016.
- [42] **A. Heidari**, “*Future prospects of point fluorescence spectroscopy, fluorescence imaging and fluorescence endoscopy in photodynamic therapy (PDT) for cancer cells*”, J Bioanal Biomed 8: e135, 2016.
- [43] **A. Heidari**, “*A bio-spectroscopic study of DNA density and color role as determining factor for absorbed irradiation in cancer cells*”, Adv Cancer Prev 1: e102, 2016.
- [44] **A. Heidari**, “*Manufacturing process of solar cells using cadmium oxide (CdO) and rhodium (III) oxide (Rh<sub>2</sub>O<sub>3</sub>) nanoparticles*”, J Biotechnol Biomater 6: e125, 2016.
- [45] **A. Heidari**, “*A novel experimental and computational approach to photobiosimulation of telomeric DNA/RNA: A biospectroscopic and photobiological study*”, J Res Development 4: 144, 2016.



- [46] **A. Heidari**, “Biochemical and pharmacodynamical study of microporous molecularly imprinted polymer selective for vancomycin, teicoplanin, oritavancin, telavancin and dalbavancin binding”, *Biochem Physiol* 5: e146, 2016.
- [47] **A. Heidari**, “Anti-cancer effect of UV irradiation at presence of cadmium oxide (CdO) nanoparticles on DNA of cancer cells: A photodynamic therapy study”, *Arch Cancer Res.* 4: 1, 2016.
- [48] **A. Heidari**, “Biospectroscopic study on multi-component reactions (MCRs) in two A-type and B-type conformations of nucleic acids to determine ligand binding modes, binding constant and stability of nucleic acids in cadmium oxide (CdO) nanoparticles–nucleic acids complexes as anti-cancer drugs”, *Arch Cancer Res.* 4: 2, 2016.
- [49] **A. Heidari**, “Simulation of temperature distribution of DNA/RNA of human cancer cells using time-dependent bio-heat equation and Nd: YAG lasers”, *Arch Cancer Res.* 4: 2, 2016.
- [50] **A. Heidari**, “Quantitative structure–activity relationship (QSAR) approximation for cadmium oxide (CdO) and rhodium (III) oxide (Rh<sub>2</sub>O<sub>3</sub>) nanoparticles as anti-cancer drugs for the catalytic formation of proviral DNA from viral RNA using multiple linear and non-linear correlation approach”, *Ann Clin Lab Res.* 4: 1, 2016.
- [51] **A. Heidari**, “Biomedical study of cancer cells DNA therapy using laser irradiations at presence of intelligent nanoparticles”, *J Biomedical Sci.* 5: 2, 2016.
- [52] **A. Heidari**, “Measurement the amount of vitamin D2 (ergocalciferol), Vitamin D3 (cholecalciferol) and absorbable calcium (Ca<sup>2+</sup>), iron (II) (Fe<sup>2+</sup>), magnesium (Mg<sup>2+</sup>), phosphate (PO<sup>4-</sup>) and zinc (Zn<sup>2+</sup>) in apricot using high-performance liquid chromatography (HPLC) and spectroscopic techniques”, *J Biom Biostat* 7: 292, 2016.
- [53] **A. Heidari**, “Spectroscopy and quantum mechanics of the helium dimer (He<sup>2+</sup>), neon dimer (Ne<sup>2+</sup>), argon dimer (Ar<sup>2+</sup>), krypton dimer (Kr<sup>2+</sup>), xenon dimer (Xe<sup>2+</sup>), radon dimer (Rn<sup>2+</sup>) and ununoctium dimer (Uuo<sup>2+</sup>) molecular cations”, *Chem Sci J* 7: e112, 2016.
- [54] **A. Heidari**, “Human toxicity photodynamic therapy studies on DNA/RNA complexes as a promising new sensitizer for the treatment of malignant tumors using bio-spectroscopic techniques”, *J Drug Metab Toxicol* 7: e129, 2016.
- [55] **A. Heidari**, “Novel and stable modifications of intelligent cadmium oxide (CdO) nanoparticles as anti-cancer drug in formation of nucleic acids complexes for human cancer cells’ treatment”, *Biochem Pharmacol (Los Angel)* 5: 207, 2016.
- [56] **A. Heidari**, “A combined computational and QM/MM molecular dynamics study on boron nitride nanotubes (BNNTs), amorphous boron nitride nanotubes (a-BNNTs) and hexagonal boron nitride nanotubes (h-BNNTs) as hydrogen storage”, *Struct Chem Crystallogr Commun* 2: 1, 2016.
- [57] **A. Heidari**, “Pharmaceutical and analytical chemistry study of cadmium oxide (CdO) nanoparticles synthesis methods and properties as anti-cancer drug and its effect on human cancer cells”, *Pharm Anal Chem Open Access* 2: 113, 2016.
- [58] **A. Heidari**, “A chemotherapeutic and biospectroscopic investigation of the interaction of double-standard DNA/RNA-binding molecules with cadmium oxide (CdO) and rhodium (III) oxide (Rh<sub>2</sub>O<sub>3</sub>) nanoparticles as anti-cancer drugs for cancer cells’ treatment”, *Chemo Open Access* 5: e129, 2016.

- [59] **A. Heidari**, “*Pharmacokinetics and experimental therapeutic study of DNA and other biomolecules using lasers: Advantages and applications*”, J Pharmacokinet Exp Ther 1: e005, 2016.
- [60] **A. Heidari**, “*Determination of ratio and stability constant of DNA/RNA in human cancer cells and cadmium oxide (CdO) nanoparticles complexes using analytical electrochemical and spectroscopic techniques*”, Insights Anal Electrochem 2: 1, 2016.
- [61] **A. Heidari**, “*Discriminate between antibacterial and non-antibacterial drugs artificial neural networks of a multilayer perceptron (MLP) type using a set of topological descriptors*”, J Heavy Met Toxicity Dis. 1: 2, 2016.
- [62] **A. Heidari**, “*Combined theoretical and computational study of the Belousov–Zhabotinsky chaotic reaction and Curtius rearrangement for synthesis of mechlorethamine, cisplatin, streptozotocin, cyclophosphamide, melphalan, busulphan and BCNU as anti-cancer drugs*”, Insights Med Phys. 1: 2, 2016.
- [63] **A. Heidari**, “*A translational biomedical approach to structural arrangement of amino acids’ complexes: A combined theoretical and computational study*”, Transl Biomed. 7: 2, 2016.
- [64] **A. Heidari**, “*Ab initio and density functional theory (DFT) studies of dynamic NMR shielding tensors and vibrational frequencies of DNA/RNA and cadmium oxide (CdO) nanoparticles complexes in human cancer cells*”, J Nanomedicine Biotherapeutic Discov 6: e144, 2016.
- [65] **A. Heidari**, “*Molecular dynamics and Monte–Carlo simulations for replacement sugars in insulin resistance, obesity, LDL cholesterol, triglycerides, metabolic syndrome, type 2 diabetes and cardiovascular disease: A glycobiological study*”, J Glycobiol 5: e111, 2016.
- [66] **A. Heidari**, “*Synthesis and study of 5–[(phenylsulfonyl)amino]–1,3,4–thiadiazole–2–sulfonamide as potential anti–pertussis drug using chromatography and spectroscopy techniques*”, Transl Med (Sunnyvale) 6: e138, 2016.
- [67] **A. Heidari**, “*Nitrogen, oxygen, phosphorus and sulphur heterocyclic anti–cancer nano drugs separation in the supercritical fluid of ozone (O<sub>3</sub>) using Soave–Redlich–Kwong (SRK) and Pang–Robinson (PR) equations*”, Electronic J Biol 12: 4, 2016.
- [68] **A. Heidari**, “*An analytical and computational infrared spectroscopic review of vibrational modes in nucleic acids*”, Austin J Anal Pharm Chem. 3 (1): 1058, 2016.
- [69] **A. Heidari**, C. Brown, “*Phase, composition and morphology study and analysis of Os–Pd/HfC nanocomposites*”, Nano Res Appl. 2: 1, 2016.
- [70] **A. Heidari**, C. Brown, “*Vibrational spectroscopic study of intensities and shifts of symmetric vibration modes of ozone diluted by cumene*”, International Journal of Advanced Chemistry, 4 (1) 5–9, 2016.
- [71] **A. Heidari**, “*Study of the role of anti–cancer molecules with different sizes for decreasing corresponding bulk tumor multiple organs or tissues*”, Arch Can Res. 4: 2, 2016.
- [72] **A. Heidari**, “*Genomics and proteomics studies of zolpidem, necopidem, alpidem, saripidem, miroprofen, zolimidine, olprinone and abafungin as anti–tumor, peptide antibiotics, antiviral and central nervous system (CNS) drugs*”, J Data Mining Genomics & Proteomics 7: e125, 2016.

- [73] **A. Heidari**, “*Pharmacogenomics and pharmacoproteomics studies of phosphodiesterase-5 (PDE5) inhibitors and paclitaxel albumin-stabilized nanoparticles as sandwiched anti-cancer nano drugs between two DNA/RNA molecules of human cancer cells*”, *J Pharmacogenomics Pharmacoproteomics* 7: e153, 2016.
- [74] **A. Heidari**, “*Biotranslational medical and biospectroscopic studies of cadmium oxide (CdO) nanoparticles–DNA/RNA straight and cycle chain complexes as potent anti-viral, anti-tumor and anti-microbial drugs: A clinical approach*”, *Transl Biomed.* 7: 2, 2016.
- [75] **A. Heidari**, “*A Comparative study on simultaneous determination and separation of adsorbed cadmium oxide (CdO) nanoparticles on DNA/RNA of human cancer cells using biospectroscopic techniques and dielectrophoresis (DEP) method*”, *Arch Can Res.* 4: 2, 2016.
- [76] **A. Heidari**, “*Cheminformatics and system chemistry of cisplatin, carboplatin, nedaplatin, oxaliplatin, heptaplatin and lobaplatin as anti-cancer nano drugs: A combined computational and experimental study*”, *J Inform Data Min* 1: 3, 2016.
- [77] **A. Heidari**, “*Linear and non-linear quantitative structure-anti-cancer-activity relationship (QSACAR) study of hydrous ruthenium (IV) oxide (RuO<sub>2</sub>) nanoparticles as non-nucleoside reverse transcriptase inhibitors (NNRTIs) and anti-cancer nano drugs*”, *J Integr Oncol* 5: e110, 2016.
- [78] **A. Heidari**, “*Synthesis, characterization and biospectroscopic studies of cadmium oxide (CdO) nanoparticles–nucleic acids complexes absence of soluble polymer as a protective agent using nucleic acids condensation and solution reduction method*”, *J Nanosci Curr Res* 1: e101, 2016.
- [79] **A. Heidari**, “*Coplanarity and collinearity of 4'-dinonyl-2,2'-bithiazole in one domain of bleomycin and pingyangmycin to be responsible for binding of cadmium oxide (CdO) nanoparticles to DNA/RNA bidentate ligands as anti-tumor nano drug*”, *Int J Drug Dev & Res* 8: 007–008, 2016.
- [80] **A. Heidari**, “*A Pharmacovigilance study on linear and non-linear quantitative structure (chromatographic) retention relationships (QSRR) models for the prediction of retention time of anti-cancer nano drugs under synchrotron radiations*”, *J Pharmacovigil* 4: e161, 2016.
- [81] **A. Heidari**, “*Nanotechnology in preparation of semipermeable polymers*”, *J Adv Chem Eng* 6: 157, 2016.
- [82] **A. Heidari**, “*A gastrointestinal study on linear and non-linear quantitative structure (chromatographic) retention relationships (QSRR) models for analysis 5-aminosalicylates nano particles as digestive system nano drugs under synchrotron radiations*”, *J Gastrointest Dig Syst* 6: e119, 2016.
- [83] **A. Heidari**, “*DNA/RNA fragmentation and cytolysis in human cancer cells treated with diphthamide nano particles derivatives*”, *Biomedical Data Mining* 5: e102, 2016.
- [84] **A. Heidari**, “*Simulation of interaction of light and iridium nanoparticles using 3D finite element method (FEM) as an optothermal cancer cells treatment*”, *International Journal of Theoretical, Computational and Mathematical Chemistry*, Volume 2, Number 1, Pages 11–16, 2016.

- [85] **A. Heidari**, “*Theoretical analysis of vibronic structure in vibrational spectra of ethanedioic acid (oxalic acid) beyond the Franck–Condon approximation: A combined experimental and density functional theoretical study*”, International Journal of Theoretical, Computational and Mathematical Chemistry, Volume 2, Number 1, Pages 17–19, 2016.
- [86] **A. Heidari**, “*The quantum entanglement dynamics induced by non-linear interaction between a moving 6-methoxy-8-[[6-methoxy-8-[[6-methoxy-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-ol and a two-mode field with two-photon transitions using reduced Von Neumann entropy and Jaynes–Cummings model*”, International Journal of Theoretical, Computational and Mathematical Chemistry, Volume 2, Number 1, Pages 20–22, 2016.
- [87] **A. Heidari**, “*Investigating the attenuated total reflectance Fourier transform infrared (ATR–FTIR) and Raman spectroscopies of single-walled carbon nanotubes (SWCNT) and multi-walled carbon nanotubes (MWCNT)*”, International Journal of Theoretical, Computational and Mathematical Chemistry, Volume 2, Number 1, Pages 23–26, 2016.
- [88] **A. Heidari**, “*Quantum hydrodynamics (QHD) approach to single-walled carbon nanotubes (SWCNT) and multi-walled carbon nanotubes (MWCNT): A comparative and computational study*”, International Journal of Theoretical, Computational and Mathematical Chemistry, Volume 2, Number 1, Pages 27–30, 2016.
- [89] **A. Heidari**, “*A successful strategy for the prediction of solubility in the construction of quantitative structure–activity relationship (QSAR) and quantitative structure–property relationship (QSPR) under synchrotron radiations using genetic function approximation (GFA) algorithm*”, J Mol Biol Biotechnol 1: 1, 2016.
- [90] **A. Heidari**, “*Computational study on molecular structures of  $C_{20}$ ,  $C_{60}$ ,  $C_{240}$ ,  $C_{540}$ ,  $C_{960}$ ,  $C_{2160}$  and  $C_{3840}$  fullerene nano molecules under synchrotron radiations using fuzzy logic*”, J Material Sci Eng 5: 282, 2016.
- [91] **A. Heidari**, “*Graph theoretical analysis of zigzag polyhexamethylene biguanide, polyhexamethylene adipamide, polyhexamethylene biguanide gauze and polyhexamethylene biguanide hydrochloride (PHMB) boron nitride nanotubes (BNNTs), amorphous boron nitride nanotubes (a-BNNTs) and hexagonal boron nitride nanotubes (h-BNNTs)*”, J Appl Computat Math 5: e143, 2016.
- [92] **A. Heidari**, “*The impact of high resolution imaging on diagnosis*”, Int J Clin Med Imaging 3: 1000e101, 2016.
- [93] **A. Heidari**, “*A comparative study of conformational behavior of isotretinoin (13-cis retinoic acid) and tretinoin (all-trans retinoic acid (ATRA)) nano particles as anti-cancer nano drugs under synchrotron radiations using Hartree–Fock (HF) and density functional theory (DFT) methods*”, Insights in Biomed 1: 2, 2016.
- [94] **A. Heidari**, “*Advances in logic, operations and computational mathematics*”, J Appl Computat Math 5: 5, 2016.
- [95] **A. Heidari**, “*Mathematical equations in predicting physical behavior*”, J Appl Computat Math 5: 5, 2016.

- [96] **A. Heidari**, “*Chemotherapy a last resort for cancer treatment*”, Chemo Open Access 5: 4, 2016.
- [97] **A. Heidari**, “*Separation and pre-concentration of metal cations–DNA/RNA chelates using molecular beam mass spectrometry with tunable vacuum ultraviolet (VUV) synchrotron radiation and various analytical methods*”, Mass Spectrom Purif Tech 2: e101, 2016.
- [98] **A. Heidari**, “*Yoctosecond quantitative structure–activity relationship (QSAR) and quantitative structure–property relationship (QSPR) under synchrotron radiations studies for prediction of solubility of anti-cancer nano drugs in aqueous solutions using genetic function approximation (GFA) algorithm*”, Insight Pharm Res. 1: 1, 2016.
- [99] **A. Heidari**, “*Cancer risk prediction and assessment in human cells under synchrotron radiations using quantitative structure activity relationship (QSAR) and quantitative structure properties relationship (QSPR) studies*”, Int J Clin Med Imaging 3: 516, 2016.
- [100] **A. Heidari**, “*A novel approach to biology*”, Electronic J Biol 12: 4, 2016.
- [101] **A. Heidari**, “*Innovative biomedical equipment’s for diagnosis and treatment*”, J Bioengineer & Biomedical Sci 6: 2, 2016.
- [102] **A. Heidari**, “*Integrating precision cancer medicine into healthcare, medicare reimbursement changes and the practice of oncology: Trends in oncology medicine and practices*”, J Oncol Med & Pract 1: 2, 2016.
- [103] **A. Heidari**, “*Promoting convergence in biomedical and biomaterials sciences and silk proteins for biomedical and biomaterials applications: An introduction to materials in medicine and bioengineering perspectives*”, J Bioengineer & Biomedical Sci 6: 3, 2016.
- [104] **A. Heidari**, “*X–ray fluorescence and x–ray diffraction analysis on discrete element modeling of nano powder metallurgy processes in optimal container design*”, J Powder Metall Min 6: 1, 2017.
- [105] **A. Heidari**, “*Biomolecular spectroscopy and dynamics of nano–sized molecules and clusters as cross–linking–induced anti–cancer and immune–oncology nano drugs delivery in DNA/RNA of uuman cancer cells’ membranes under synchrotron radiations: A payload–based perspective*”, Arch Chem Res. 1: 2, 2017.
- [106] **A. Heidari**, “*Deficiencies in repair of double–standard DNA/RNA–binding molecules identified in many types of solid and liquid tumors oncology in human body for advancing cancer immunotherapy using computer simulations and data analysis: Number of mutations in a synchronous tumor varies by age and type of synchronous cancer*”, J Appl Bioinforma Comput Biol, 6: 1, 2017.
- [107] **A. Heidari**, “*Electronic coupling among the five nanomolecules shuts down quantum tunneling in the presence and absence of an applied magnetic field for indication of the dimer or other provide different influences on the magnetic behavior of single molecular magnets (SMMs) as qubits for quantum computing*”, Glob J Res Rev. 4: 2, 2017.
- [108] **A. Heidari**, “*Polymorphism in nano–sized graphene ligand–induced transformation of  $Au_{38-x}Ag_x/xCu_x(SPh-tBu)_{24}$  to  $Au_{36-x}Ag_x/xCu_x(SPh-tBu)_{24}$  ( $x = 1-12$ ) nanomolecules for synthesis of  $Au_{144-x}Ag_x/xCu_x[(SR)_{60}, (SC_4)_{60}, (SC_6)_{60}, (SC_{12})_{60}$* ”,

- (PET)<sub>60</sub>, (p-MBA)<sub>60</sub>, (F)<sub>60</sub>, (Cl)<sub>60</sub>, (Br)<sub>60</sub>, (I)<sub>60</sub>, (At)<sub>60</sub>, (Uus)<sub>60</sub> and (SC<sub>6</sub>H<sub>13</sub>)<sub>60</sub>] nano clusters as anti-cancer nano drugs”, J Nanomater Mol Nanotechnol, 6: 3, 2017.
- [109] **A. Heidari**, “Biomedical resource oncology and data mining to enable resource discovery in medical, medicinal, clinical, pharmaceutical, chemical and translational research and their applications in cancer research”, Int J Biomed Data Min 6: e103, 2017.
  - [110] **A. Heidari**, “Study of synthesis, pharmacokinetics, pharmacodynamics, dosing, stability, safety and efficacy of olympiadane nanomolecules as agent for cancer enzymotherapy, immunotherapy, chemotherapy, radiotherapy, hormone therapy and targeted therapy under synchrotron radiation”, J Dev Drugs 6: e154, 2017.
  - [111] **A. Heidari**, “A Novel approach to future horizon of top seven biomedical research topics to watch in 2017: Alzheimer's, ebola, hypersomnia, human immunodeficiency virus (HIV), tuberculosis (TB), microbiome/antibiotic resistance and endovascular stroke”, J Bioengineer & Biomedical Sci 7: e127, 2017.
  - [112] **A. Heidari**, “Opinion on computational fluid dynamics (CFD) technique”, Fluid Mech Open Acc 4: 157, 2017.
  - [113] **A. Heidari**, “Concurrent diagnosis of oncology influence outcomes in emergency general surgery for colorectal cancer and multiple sclerosis (MS) treatment using magnetic resonance imaging (MRI) and Au<sub>329</sub>(SR)<sub>84</sub>, Au<sub>329-x</sub>Ag<sub>x</sub>(SR)<sub>84</sub>, Au<sub>144</sub>(SR)<sub>60</sub>, Au<sub>68</sub>(SR)<sub>36</sub>, Au<sub>30</sub>(SR)<sub>18</sub>, Au<sub>102</sub>(SPh)<sub>44</sub>, Au<sub>38</sub>(SPh)<sub>24</sub>, Au<sub>38</sub>(SC<sub>2</sub>H<sub>4</sub>Ph)<sub>24</sub>, Au<sub>21</sub>S(SAdm)<sub>15</sub>, Au<sub>36</sub>(pMBA)<sub>24</sub> and Au<sub>25</sub>(pMBA)<sub>18</sub> nano clusters”, J Surgery Emerg Med 1: 21, 2017.
  - [114] **A. Heidari**, “Developmental cell biology in adult stem cells death and autophagy to trigger a preventive allergic reaction to common airborne allergens under synchrotron radiation using nanotechnology for therapeutic goals in particular allergy shots (immunotherapy)”, Cell Biol (Henderson, NV) 6: 1, 2017.
  - [115] **A. Heidari**, “Changing metal powder characteristics for elimination of the heavy metals toxicity and diseases in disruption of extracellular matrix (ECM) proteins adjustment in cancer metastases induced by osteosarcoma, chondrosarcoma, carcinoid, carcinoma, Ewing's sarcoma, fibrosarcoma and secondary hematopoietic solid or soft tissue tumors”, J Powder Metall Min 6: 170, 2017.
  - [116] **A. Heidari**, “Nanomedicine-based combination anti-cancer therapy between nucleic acids and anti-cancer nano drugs in covalent nano drugs delivery systems for selective imaging and treatment of human brain tumors using hyaluronic acid, alguronic acid and sodium hyaluronate as anti-cancer nano drugs and nucleic acids delivery under synchrotron radiation”, Am J Drug Deliv 5: 2, 2017.
  - [117] **A. Heidari**, “Clinical trials of dendritic cell therapies for cancer exposing vulnerabilities in human cancer cells' metabolism and metabolomics: New discoveries, unique features inform new therapeutic opportunities, biotech's bumpy road to the market and elucidating the biochemical programs that support cancer initiation and progression”, J Biol Med Science 1: e103, 2017.

- [118] **A. Heidari**, “*The design graphene-based nanosheets as a new nanomaterial in anti-cancer therapy and delivery of chemotherapeutics and biological nano drugs for liposomal anti-cancer nano drugs and gene delivery*”, Br Biomed Bull 5: 305, 2017.
- [119] **A. Heidari**, “*Integrative approach to biological networks for emerging roles of proteomics, genomics and transcriptomics in the discovery and validation of human colorectal cancer biomarkers from DNA/RNA sequencing data under synchrotron radiation*”, Transcriptomics 5: e117, 2017.
- [120] **A. Heidari**, “*Elimination of the heavy metals toxicity and diseases in disruption of extracellular matrix (ECM) proteins and cell adhesion intelligent nanomolecules adjustment in cancer metastases using metalloenzymes and under synchrotron radiation*”, Lett Health Biol Sci 2 (2): 1–4, 2017.
- [121] **A. Heidari**, “*Treatment of breast cancer brain metastases through a targeted nanomolecule drug delivery system based on dopamine functionalized multi-wall carbon nanotubes (MWCNTs) coated with nano graphene oxide (GO) and protonated polyaniline (PANI) in situ during the polymerization of aniline autogenic nanoparticles for the delivery of anti-cancer nano drugs under synchrotron radiation*”, Br J Res, 4 (3): 16, 2017.
- [122] **A. Heidari**, “*Sedative, analgesic and ultrasound-mediated gastrointestinal nano drugs delivery for gastrointestinal endoscopic procedure, nano drug-induced gastrointestinal disorders and nano drug treatment of gastric acidity*”, Res Rep Gastroenterol, 1: 1, 2017.
- [123] **A. Heidari**, “*Synthesis, pharmacokinetics, pharmacodynamics, dosing, stability, safety and efficacy of orphan nano drugs to treat high cholesterol and related conditions and to prevent cardiovascular disease under synchrotron radiation*”, J Pharm Sci Emerg Drugs 5: 1, 2017.
- [124] **A. Heidari**, “*Non-linear compact proton synchrotrons to improve human cancer cells and tissues treatments and diagnostics through particle therapy accelerators with monochromatic microbeams*”, J Cell Biol Mol Sci 2 (1): 1–5, 2017.
- [125] **A. Heidari**, “*Design of targeted metal chelation therapeutics nanocapsules as colloidal carriers and blood-brain barrier (BBB) translocation to targeted deliver anti-cancer nano drugs into the human brain to treat alzheimer’s disease under synchrotron radiation*”, J Nanotechnol Material Sci 4 (2): 1–5, 2017.
- [126] R. Gobato, **A. Heidari**, “*Calculations using quantum chemistry for inorganic molecule simulation BeLi<sub>2</sub>SeSi*”, Science Journal of Analytical Chemistry, Vol. 5, No. 6, Pages 76–85, 2017.
- [127] **A. Heidari**, “*Different high-resolution simulations of medical, medicinal, clinical, pharmaceutical and therapeutics oncology of human lung cancer translational anti-cancer nano drugs delivery treatment process under synchrotron and x-ray radiations*”, J Med Oncol. Vol. 1 No. 1: 1, 2017.
- [128] **A. Heidari**, “*A modern ethnomedicinal technique for transformation, prevention and treatment of human malignant gliomas tumors into human benign gliomas tumors under synchrotron radiation*”, Am J Ethnomed, Vol. 4 No. 1: 10, 2017.
- [129] **A. Heidari**, “*Active targeted nanoparticles for anti-cancer nano drugs delivery across the blood-brain barrier for human brain cancer treatment, multiple sclerosis (MS)*”

and alzheimer's diseases using chemical modifications of anti-cancer nano drugs or drug-nanoparticles through zika virus (ZIKV) nanocarriers under synchrotron radiation", J Med Chem Toxicol, 2 (3): 1-5, 2017.

- [130] **A. Heidari**, "Investigation of medical, medicinal, clinical and pharmaceutical applications of Estradiol, Mestranol (Norlutin), Norethindrone (NET), Norethisterone Acetate (NETA), Norethisterone Enanthate (NETE) and Testosterone nanoparticles as biological imaging, cell labeling, anti-microbial agents and anti-cancer nano drugs in nanomedicines based drug delivery systems for anti-cancer targeting and treatment", Parana Journal of Science and Education (PJSE)-V.3, n.4, (10-19) October 12, 2017.
- [131] **A. Heidari**, "A comparative computational and experimental study on different vibrational biospectroscopy methods, techniques and applications for human cancer cells in tumor tissues simulation, modeling, research, diagnosis and treatment", Open J Anal Bioanal Chem 1 (1): 014-020, 2017.
- [132] **A. Heidari**, "Combination of DNA/RNA ligands and linear/non-linear visible-synchrotron radiation-driven N-doped ordered mesoporous cadmium oxide (CdO) nanoparticles photocatalysts channels resulted in an interesting synergistic effect enhancing catalytic anti-cancer activity", Enz Eng 6: 1, 2017.
- [133] **A. Heidari**, "Modern approaches in designing ferritin, ferritin light chain, transferrin, beta-2 transferrin and bacterioferritin-based anti-cancer nano drugs encapsulating nanosphere as DNA-binding proteins from starved cells (DPS)", Mod Appro Drug Des. 1 (1). MADD.000504. 2017.
- [134] **A. Heidari**, "Potency of human interferon  $\beta$ -1a and human interferon  $\beta$ -1b in enzymotherapy, immunotherapy, chemotherapy, radiotherapy, hormone therapy and targeted therapy of encephalomyelitis disseminate/multiple sclerosis (MS) and hepatitis A, B, C, D, E, F and G virus enter and targets liver cells", J Proteomics Enzymol 6: 1, 2017.
- [135] **A. Heidari**, "Transport therapeutic active targeting of human brain tumors enable anti-cancer nanodrugs delivery across the blood-brain barrier (BBB) to treat brain diseases using nanoparticles and nanocarriers under synchrotron radiation", J Pharm Pharmaceutics 4 (2): 1-5, 2017.
- [136] **A. Heidari**, C. Brown, "Combinatorial therapeutic approaches to DNA/RNA and benzylpenicillin (penicillin G), fluoxetine hydrochloride (prozac and sarafem), propofol (diprivan), acetylsalicylic acid (ASA) (aspirin), naproxen sodium (aleve and naprosyn) and dextromethamphetamine nanocapsules with surface conjugated DNA/RNA to targeted nano drugs for enhanced anti-cancer efficacy and targeted cancer therapy using nano drugs delivery systems", Ann Adv Chem. 1 (2): 061-069, 2017.
- [137] **A. Heidari**, "High-resolution simulations of human brain cancer translational nano drugs delivery treatment process under synchrotron radiation", J Transl Res. 1 (1): 1-3, 2017.
- [138] **A. Heidari**, "Investigation of anti-cancer nano drugs' effects' trend on human pancreas cancer cells and tissues prevention, diagnosis and treatment process under synchrotron and x-ray radiations with the passage of time using Mathematica", Current Trends Anal Bioanal Chem, 1 (1): 36-41, 2017.



- [139] **A. Heidari**, “Pros and cons controversy on molecular imaging and dynamics of double–standard DNA/RNA of human preserving stem cells–binding nano molecules with androgens/anabolic steroids (AAS) or testosterone derivatives through tracking of helium–4 nucleus (alpha particle) using synchrotron radiation”, Arch Biotechnol Biomed. 1 (1): 067–0100, 2017.
- [140] **A. Heidari**, “Visualizing metabolic changes in probing human cancer cells and tissues metabolism using vivo  $^1\text{H}$  or proton NMR,  $^{13}\text{C}$  NMR,  $^{15}\text{N}$  NMR and  $^{31}\text{P}$  NMR spectroscopy and self–organizing maps under synchrotron radiation”, SOJ Mater Sci Eng 5 (2): 1–6, 2017.
- [141] **A. Heidari**, “Cavity ring–down spectroscopy (CRDS), circular dichroism spectroscopy, cold vapour atomic fluorescence spectroscopy and correlation spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation”, Enliven: Challenges Cancer Detect Ther 4 (2): e001, 2017.
- [142] **A. Heidari**, “Laser spectroscopy, laser–induced breakdown spectroscopy and laser–induced plasma spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation”, Int J Hepatol Gastroenterol, 3 (4): 079–084, 2017.
- [143] **A. Heidari**, “Time–resolved spectroscopy and time–stretch spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation”, Enliven: Pharmacovigilance and Drug Safety 4 (2): e001, 2017.
- [144] **A. Heidari**, “Overview of the role of vitamins in reducing negative effect of decapeptyl (triptorelin acetate or pamoate salts) on prostate cancer cells and tissues in prostate cancer treatment process through transformation of malignant prostate tumors into benign prostate tumors under synchrotron radiation”, Open J Anal Bioanal Chem 1 (1): 021–026, 2017.
- [145] **A. Heidari**, “Electron phenomenological spectroscopy, electron paramagnetic resonance (EPR) spectroscopy and electron spin resonance (ESR) spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation”, Austin J Anal Pharm Chem. 4 (3): 1091, 2017.
- [146] **A. Heidari**, “Therapeutic nanomedicine different high–resolution experimental images and computational simulations for human brain cancer cells and tissues using nanocarriers deliver DNA/RNA to brain tumors under synchrotron radiation with the passage of time using Mathematica and MATLAB”, Madridge J Nano Tech. Sci. 2 (2): 77–83, 2017.
- [147] **A. Heidari**, “A consensus and prospective study on restoring cadmium oxide (CdO) nanoparticles sensitivity in recurrent ovarian cancer by extending the cadmium oxide (CdO) nanoparticles–free interval using synchrotron radiation therapy as antibody–drug conjugate for the treatment of limited–stage small cell diverse epithelial cancers”, Cancer Clin Res Rep, 1: 2, e001, 2017.
- [148] **A. Heidari**, “A novel and modern experimental imaging and spectroscopy comparative study on malignant and benign human cancer cells and tissues with the

*passage of time under white synchrotron radiation*”, *Cancer Sci Res Open Access* 4 (2): 1–8, 2017.

- [149] **A. Heidari**, “*Different high–resolution simulations of medical, medicinal, clinical, pharmaceutical and therapeutics oncology of human breast cancer translational nano drugs delivery treatment process under synchrotron and x–ray radiations*”, *J Oral Cancer Res* 1 (1): 12–17, 2017.
- [150] **A. Heidari**, “*Vibrational decihertz (dHz), centihertz (cHz), millihertz (mHz), microhertz ( $\mu$ Hz), nanohertz (nHz), picohertz (pHz), femtohertz (fHz), attohertz (aHz), zeptohertz (zHz) and yoctohertz (yHz) imaging and spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *International Journal of Biomedicine*, 7 (4), 335–340, 2017.
- [151] **A. Heidari**, “*Force spectroscopy and fluorescence spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, *EC Cancer*, 2 (5), 239–246, 2017.
- [152] **A. Heidari**, “*Photoacoustic spectroscopy, photoemission spectroscopy and photothermal spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, *BAOJ Cancer Res Ther*, 3: 3, 045–052, 2017.
- [153] **A. Heidari**, “*J–spectroscopy, exchange spectroscopy (EXSY), nuclear overhauser effect spectroscopy (NOESY) and total correlation spectroscopy (TOCSY) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *EMS Eng Sci J*, 1 (2): 006–013, 2017.
- [154] **A. Heidari**, “*Neutron spin echo spectroscopy and spin noise spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, *Int J Biopharm Sci*, 1: 103–107, 2017.
- [155] **A. Heidari**, “*Vibrational decahertz (daHz), hectohertz (hHz), kilohertz (kHz), Megahertz (MHz), Gigahertz (GHz), Terahertz (THz), Petahertz (PHz), Exahertz (EHz), Zettahertz (ZHz) and Yottahertz (YHz) imaging and spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *Madridge J Anal Sci Instrum*, 2 (1): 41–46, 2017.
- [156] **A. Heidari**, “*Two–dimensional infrared correlation spectroscopy, linear two–dimensional infrared spectroscopy and non–linear two–dimensional infrared spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time*”, *J Mater Sci Nanotechnol* 6 (1): 101, 2018.
- [157] **A. Heidari**, “*Fourier transform infrared (FTIR) spectroscopy, near–infrared spectroscopy (NIRS) and mid–infrared spectroscopy (MIRS) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time*”, *Int J Nanotechnol Nanomed*, Volume 3, Issue 1, Pages 1–6, 2018.
- [158] **A. Heidari**, “*Infrared photo dissociation spectroscopy and infrared correlation table spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time*”, *Austin Pharmacol Pharm*, 3 (1): 1011, 2018.

- [159] **A. Heidari**, “*Novel and transcendental prevention, diagnosis and treatment strategies for investigation of interaction among human blood cancer cells, tissues, tumors and metastases with synchrotron radiation under anti-cancer nano drugs delivery efficacy using MATLAB modeling and simulation*”, *Madridge J Nov Drug Res*, 1 (1): 18–24, 2017.
- [160] **A. Heidari**, “*Comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, *Open Access J Trans Med Res*, 2 (1): 00026–00032, 2018.
- [161] M. R. R. Gobato, R. Gobato, **A. Heidari**, “*Planting of Jaboticaba Trees for Landscape Repair of Degraded Area*”, *Landscape Architecture and Regional Planning*, Vol. 3, No. 1, 2018, Pages 1–9, 2018.
- [162] **A. Heidari**, “*Fluorescence spectroscopy, phosphorescence spectroscopy and luminescence spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time*”, *SM J Clin. Med. Imaging*, 4 (1): 1018, 2018.
- [163] **A. Heidari**, “*Nuclear inelastic scattering spectroscopy (NISS) and nuclear inelastic absorption spectroscopy (NIAS) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *Int J Pharm Sci*, 2 (1): 1–14, 2018.
- [164] **A. Heidari**, “*X-ray diffraction (XRD), powder x-ray diffraction (PXRD) and energy-dispersive x-ray diffraction (EDXRD) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *J Oncol Res*; 2 (1): 1–14, 2018.
- [165] **A. Heidari**, “*Correlation two-dimensional nuclear magnetic resonance (NMR) (2D-NMR) (COSY) imaging and spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *EMS Can Sci*, 1–1–001, 2018.
- [166] **A. Heidari**, “*Thermal spectroscopy, photothermal spectroscopy, thermal microspectroscopy, photothermal microspectroscopy, thermal macrospectroscopy and photothermal macrospectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, *SM J Biometrics Biostat*, 3 (1): 1024, 2018.
- [167] **A. Heidari**, “*A modern and comprehensive experimental biospectroscopic comparative study on human common cancers’ cells, tissues and tumors before and after synchrotron radiation therapy*”, *Open Acc J Oncol Med*. 1 (1), 2018.
- [168] **A. Heidari**, “*Heteronuclear correlation experiments such as heteronuclear single-quantum correlation spectroscopy (HSQC), heteronuclear multiple-quantum correlation spectroscopy (HMQC) and heteronuclear multiple-bond correlation spectroscopy (HMBC) comparative study on malignant and benign human endocrinology and thyroid cancer cells and tissues under synchrotron radiation*”, *J Endocrinol Thyroid Res*, 3 (1): 555603, 2018.
- [169] **A. Heidari**, “*Nuclear resonance vibrational spectroscopy (NRVS), nuclear inelastic scattering spectroscopy (NISS), nuclear inelastic absorption spectroscopy (NIAS) and nuclear resonant inelastic x-ray scattering spectroscopy (NRIXSS)*”

*comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, Int J Bioorg Chem Mol Biol. 6 (1e): 1–5, 2018.

- [170] **A. Heidari**, “*A novel and modern experimental approach to vibrational circular dichroism spectroscopy and video spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under white and monochromatic synchrotron radiation*”, Glob J Endocrinol Metab. 1 (3). GJEM. 000514–000519, 2018.
- [171] **A. Heidari**, “*Pros and cons controversy on heteronuclear correlation experiments such as heteronuclear single–quantum correlation spectroscopy (HSQC), heteronuclear multiple–quantum correlation spectroscopy (HMQC) and heteronuclear multiple–bond correlation spectroscopy (HMBC) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, EMS Pharma J. 1 (1): 002–008, 2018.
- [172] **A. Heidari**, “*A modern comparative and comprehensive experimental biospectroscopic study on different types of infrared spectroscopy of malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, J Analyt Molecul Tech. 3 (1): 8, 2018.
- [173] **A. Heidari**, “*Investigation of cancer types using synchrotron technology for proton beam therapy: An experimental biospectroscopic comparative study*”, European Modern Studies Journal, Vol. 2, No. 1, 13–29, 2018.
- [174] **A. Heidari**, “*Saturated spectroscopy and unsaturated spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, Imaging J Clin Medical Sci. 5 (1): 001–007, 2018.
- [175] **A. Heidari**, “*Small–angle neutron scattering (SANS) and wide–angle x–ray diffraction (WAXD) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, Int J Bioorg Chem Mol Biol. 6 (2e): 1–6, 2018.
- [176] **A. Heidari**, “*Investigation of bladder cancer, breast cancer, colorectal cancer, endometrial cancer, kidney cancer, leukemia, liver, lung cancer, melanoma, non–hodgkin lymphoma, pancreatic cancer, prostate cancer, thyroid cancer and non–melanoma skin cancer using synchrotron technology for proton beam therapy: An experimental biospectroscopic comparative study*”, Ther Res Skin Dis 1 (1), 2018.
- [177] **A. Heidari**, “*Attenuated total reflectance fourier transform infrared (ATR–FTIR) spectroscopy, micro–attenuated total reflectance fourier transform infrared (micro–ATR–FTIR) spectroscopy and macro–attenuated total reflectance fourier transform infrared (macro–ATR–FTIR) spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time*”, International Journal of Chemistry Papers, 2 (1): 1–12, 2018.
- [178] **A. Heidari**, “*Mössbauer spectroscopy, Mössbauer emission spectroscopy and <sup>57</sup>Fe Mössbauer spectroscopy comparative study on malignant and benign human cancer cells*”

*and tissues under synchrotron radiation*”, Acta Scientific Cancer Biology 2.3: 17–20, 2018.

- [179] **A. Heidari**, “Comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time”, Organic & Medicinal Chem IJ. 6 (1): 555676, 2018.
- [180] **A. Heidari**, “Correlation spectroscopy, exclusive correlation spectroscopy and total correlation spectroscopy comparative study on malignant and benign human aids–related cancers cells and tissues with the passage of time under synchrotron radiation”, Int J Bioanal Biomed. 2 (1): 001–007, 2018.
- [181] **A. Heidari**, “Biomedical instrumentation and applications of biospectroscopic methods and techniques in malignant and benign human cancer cells and tissues studies under synchrotron radiation and anti–cancer nano drugs delivery”, Am J Nanotechnol Nanomed. 1 (1): 001–009, 2018.
- [182] **A. Heidari**, “Vivo  $^1\text{H}$  or proton NMR,  $^{13}\text{C}$  NMR,  $^{15}\text{N}$  NMR and  $^{31}\text{P}$  NMR spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, Ann Biomet Biostat. 1 (1): 1001, 2018.
- [183] **A. Heidari**, “Grazing–incidence small–angle neutron scattering (GISANS) and grazing–incidence x–ray diffraction (GIXD) comparative study on malignant and benign human cancer cells, tissues and tumors under synchrotron radiation”, Ann Cardiovasc Surg. 1 (2): 1006, 2018.
- [184] **A. Heidari**, “Adsorption isotherms and kinetics of multi–walled carbon nanotubes (MWCNTs), boron nitride nanotubes (BNNTs), amorphous boron nitride nanotubes (a–BNNTs) and hexagonal boron nitride nanotubes (h–BNNTs) for eliminating carcinoma, sarcoma, lymphoma, leukemia, germ cell tumor and blastoma cancer cells and tissues”, Clin Med Rev Case Rep 5: 201, 2018.
- [185] **A. Heidari**, “Correlation spectroscopy (COSY), exclusive correlation spectroscopy (ECOSY), total correlation spectroscopy (TOCSY), incredible natural–abundance double–quantum transfer experiment (INADEQUATE), heteronuclear single–quantum correlation spectroscopy (HSQC), heteronuclear multiple–bond correlation spectroscopy (HMBC), nuclear overhauser effect spectroscopy (NOESY) and rotating frame nuclear overhauser effect spectroscopy (ROESY) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, Acta Scientific Pharmaceutical Sciences 2.5: 30–35, 2018.
- [186] **A. Heidari**, “Small–angle x–ray scattering (SAXS), ultra–small angle x–ray scattering (USAXS), fluctuation x–ray scattering (FXS), wide–angle x–ray scattering (WAXS), grazing–incidence small–angle x–ray scattering (GISAXS), grazing–incidence wide–angle x–Ray scattering (GIWAXS), small–angle neutron scattering (SANS), grazing–incidence small–angle neutron scattering (GISANS), x–ray diffraction (XRD), powder x–ray diffraction (PXRD), wide–angle x–ray diffraction (WAXD), grazing–

*incidence x-ray diffraction (GIXD) and energy-dispersive x-ray diffraction (EDXRD) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *Oncol Res Rev*, Volume 1 (1): 1–10, 2018.

- [187] **A. Heidari**, “*Pump-probe spectroscopy and transient grating spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, *Adv Material Sci Engg*, Volume 2, Issue 1, Pages 1–7, 2018.
- [188] **A. Heidari**, “*Grazing-incidence small-angle x-ray scattering (GISAXS) and grazing-incidence wide-angle x-ray scattering (GIWAXS) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *Insights Pharmacol Pharm Sci* 1 (1): 1–8, 2018.
- [189] **A. Heidari**, “*Acoustic spectroscopy, acoustic resonance spectroscopy and auger spectroscopy comparative study on anti-cancer nano drugs delivery in malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, *Nanosci Technol* 5 (1): 1–9, 2018.
- [190] **A. Heidari**, “*Niobium, technetium, ruthenium, rhodium, hafnium, rhenium, osmium and iridium ions incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations*”, *Nanomed Nanotechnol*, 3 (2): 000138, 2018.
- [191] **A. Heidari**, “*Homonuclear correlation experiments such as homonuclear single-quantum correlation spectroscopy (HSQC), homonuclear multiple-quantum correlation spectroscopy (HMQC) and homonuclear multiple-bond correlation spectroscopy (HMBC) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation*”, *Austin J Proteomics Bioinform & Genomics*. 5 (1): 1024, 2018.
- [192] **A. Heidari**, “*Atomic force microscopy based infrared (AFM-IR) spectroscopy and nuclear resonance vibrational spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time*”, *J Appl Biotechnol Bioeng*. 5 (3): 142–148, 2018.
- [193] **A. Heidari**, “*Time-dependent vibrational spectral analysis of malignant and benign human cancer cells and tissues under synchrotron radiation*”, *J Cancer Oncol*, 2 (2): 000124, 2018.
- [194] **A. Heidari**, “*Palauamine and olympiadane nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations*”, *Arc Org Inorg Chem Sci* 3 (1), 2018.

- [195] R. Gobato, **A. Heidari**, “*Infrared spectrum and sites of action of sanguinarine by molecular mechanics and ab initio methods*”, International Journal of Atmospheric and Oceanic Sciences. Vol. 2, No. 1, pp. 1–9, 2018.
- [196] **A. Heidari**, “*Angelic acid, diabolic acids, draculin and miraculin nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations*”, Med & Analy Chem Int J, 2 (1): 000111, 2018.
- [197] **A. Heidari**, “*Gamma linolenic methyl ester, 5–heptadeca–5,8,11–trienyl 1,3,4–oxadiazole–2–thiol, sulphoquinovosyl diacyl glycerol, ruscogenin, nocturnoside B, protodioscine B, parquioside–B, leiocarposide, narangenin, 7–methoxy hespertin, lupeol, rosemariquinone, rosmanol and rosemadiol nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations*”, Int J Pharma Anal Acta, 2 (1): 007–014, 2018.
- [198] **A. Heidari**, “*Fourier transform infrared (FTIR) spectroscopy, attenuated total reflectance fourier transform infrared (ATR–FTIR) spectroscopy, micro–attenuated total reflectance fourier transform infrared (Micro–ATR–FTIR) spectroscopy, macro–attenuated total reflectance fourier transform infrared (Macro–ATR–FTIR) spectroscopy, two–dimensional infrared correlation spectroscopy, linear two–dimensional infrared spectroscopy, non–linear two–dimensional infrared spectroscopy, atomic force microscopy based infrared (AFM–IR) spectroscopy, infrared photodissociation spectroscopy, infrared correlation table spectroscopy, near–infrared spectroscopy (NIRS), mid–infrared spectroscopy (MIRS), nuclear resonance vibrational spectroscopy, thermal infrared spectroscopy and photothermal infrared spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time*”, Glob Imaging Insights, Volume 3 (2): 1–14, 2018.
- [199] **A. Heidari**, “*Heteronuclear single–quantum correlation spectroscopy (HSQC) and heteronuclear multiple–bond correlation spectroscopy (HMBC) comparative study on malignant and benign human cancer cells, tissues and tumors under synchrotron and synchrocyclotron radiations*”, Chronicle of Medicine and Surgery 2.3: 144–156, 2018.
- [200] **A. Heidari**, “*Tetrakis [3, 5–bis (trifluoromethyl) phenyl] borate (BARF)–enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules*”, Medical Research and Clinical Case Reports 2.1: 113–126, 2018.
- [201] **A. Heidari**, “*Sydnone, münchnone, montréalone, mogone, montelukast, quebecol and palau’amine–enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules*”, Sur Cas Stud Op Acc J. 1 (3), 2018.

- [202] **A. Heidari**, “*Fornacite, orotic acid, rhamnetin, sodium ethyl xanthate (SEX) and spermine (spermidine or polyamine) nanomolecules incorporation into the nanopolymeric matrix (NPM)*”, International Journal of Biochemistry and Biomolecules, Vol. 4: Issue 1, Pages 1–19, 2018.
- [203] **A. Heidari**, R. Gobato, “*Putrescine, cadaverine, spermine and spermidine-enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules*”, Parana Journal of Science and Education (PJSE)–v.4, n.5, (1–14) July 1, 2018.
- [204] **A. Heidari**, “*Cadaverine (1,5–pentanediamine or pentamethylenediamine), diethyl azodicarboxylate (DEAD or DEADCAT) and putrescine (tetramethylenediamine) nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations*”, Hiv and Sexual Health Open Access Open Journal. 1 (1): 4–11, 2018.
- [205] **A. Heidari**, “*Improving the performance of nano–endofullerenes in polyaniline nanostructure–based biosensors by covering californium colloidal nanoparticles with multi–walled carbon nanotubes*”, Journal of Advances in Nanomaterials, Vol. 3, No. 1, Pages 1–28, 2018.
- [206] R. Gobato, **A. Heidari**, “*Molecular mechanics and quantum chemical study on sites of action of sanguinarine using vibrational spectroscopy based on molecular mechanics and quantum chemical calculations*”, Malaysian Journal of Chemistry, Vol. 20 (1), 1–23, 2018.
- [207] **A. Heidari**, “*Vibrational biospectroscopic studies on anti–cancer nanopharmaceuticals (Part I)*”, Malaysian Journal of Chemistry, Vol. 20 (1), 33–73, 2018.
- [208] **A. Heidari**, “*Vibrational biospectroscopic studies on anti–cancer nanopharmaceuticals (Part II)*”, Malaysian Journal of Chemistry, Vol. 20 (1), 74–117, 2018.
- [209] **A. Heidari**, “*Uranocene ( $U(C_8H_8)_2$ ) and bis(cyclooctatetraene)iron ( $Fe(C_8H_8)_2$  or  $Fe(COT)_2$ )–enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules*”, Chemistry Reports, Vol. 1, Iss. 2, Pages 1–16, 2018.
- [210] **A. Heidari**, “*Biomedical systematic and emerging technological study on human malignant and benign cancer cells and tissues biospectroscopic analysis under synchrotron radiation*”, Glob Imaging Insights, Volume 3 (3): 1–7, 2018.
- [211] **A. Heidari**, “*Deep–level transient spectroscopy and x–ray photoelectron spectroscopy (XPS) comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*”, Res Dev Material Sci. 7(2). RDMS.000659, 2018.



- [212] **A. Heidari**, “C70–carboxyfullerenes nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations”, *Glob Imaging Insights*, Volume 3 (3): 1–7, 2018.
- [213] **A. Heidari**, “The effect of temperature on cadmium oxide (CdO) nanoparticles produced by synchrotron radiation in the human cancer cells, tissues and tumors”, *International Journal of Advanced Chemistry*, 6 (2) 140–156, 2018.
- [214] **A. Heidari**, N. Heidari, M. Ghorbani, “A new approach to gold nanoparticles synthesis using l–alanine and stabilizing them by chitosan”, *Quantum Matter*. 1 (2), 149–152, 2012.
- [215] **A. Heidari**, N. Heidari, M. Ghorbani, “A density functional theory approach to investigating lattice dynamics in  $La_{2-x}Ba_xCuO_4$  superconductor: A density functional theory study”, *Quantum Matter*. 1 (1), 86–88, 2012.
- [216] **A. Heidari**, “A clinical and molecular pathology investigation of correlation spectroscopy (COSY), exclusive correlation spectroscopy (ECOSY), total correlation spectroscopy (TOCSY), heteronuclear single–quantum correlation spectroscopy (HSQC) and heteronuclear multiple–bond correlation spectroscopy (HMBC) comparative study on malignant and benign human cancer cells, tissues and tumors under synchrotron and synchrocyclotron radiations using cyclotron versus synchrotron, synchrocyclotron and the large hadron collider (LHC) for delivery of proton and helium ion (charged particle) beams for oncology radiotherapy”, *European Journal of Advances in Engineering and Technology*, 5 (7): 414–426, 2018.
- [217] **A. Heidari**, “Nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations”, *J Oncol Res*; 1 (1): 1–20, 2018.
- [218] **A. Heidari**, “Use of molecular enzymes in the treatment of chronic disorders”, *Canc Oncol Open Access J*. 1 (1): 12–15, 2018.
- [219] **A. Heidari**, “Vibrational biospectroscopic study and chemical structure analysis of unsaturated polyamides nanoparticles as anti–cancer polymeric nanomedicines using synchrotron radiation”, *International Journal of Advanced Chemistry*, 6 (2), 167– 189, 2018.
- [220] **A. Heidari**, “Adamantane, irene, naftazone and pyridine–enhanced precatalyst preparation stabilization and initiation (PEPPSI) nano molecules”, *Madridge J Nov Drug Res*. 2 (1): 61–67, 2018.
- [221] **A. Heidari**, “Heteronuclear single–quantum correlation spectroscopy (HSQC) and heteronuclear multiple–bond correlation spectroscopy (HMBC) comparative study on

*malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation*", Madridge J Nov Drug Res, 2 (1): 68–74, 2018.

- [222] **A. Heidari**, R. Gobato, "A novel approach to reduce toxicities and to improve bioavailabilities of DNA/RNA of human cancer cells–containing cocaine (coke), lysergide (lysergic acid diethyl amide or LSD),  $\Delta^9$ -tetrahydrocannabinol (THC) [(–)–trans- $\Delta^9$ -tetrahydrocannabinol], theobromine (xantheose), caffeine, aspartame (APM) (nutraSweet) and zidovudine (ZDV) [azidothymidine (AZT)] as anti–cancer nano drugs by coassembly of dual anti–cancer nano drugs to inhibit DNA/RNA of human cancer cells drug resistance", Parana Journal of Science and Education (PJSE), v. 4, n. 6, pp. 1–17, 2018.
- [223] **A. Heidari**, R. Gobato, "Ultraviolet photoelectron spectroscopy (UPS) and ultraviolet–visible (UV–Vis) spectroscopy comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation", Parana Journal of Science and Education (PJSE), v. 4, n. 6, pp. 18–33, 2018.
- [224] R. Gobato, **A. Heidari**, A. Mitra, "The creation of  $C_{13}H_{20}BeLi_2SeSi$ . The proposal of a bio–inorganic molecule, using *ab initio* methods for the genesis of a nano membrane", Arc Org Inorg Chem Sci 3 (4). AOICS.MS.ID.000167, 2018.
- [225] R. Gobato, **A. Heidari**, "Using the quantum chemistry for genesis of a nano biomembrane with a combination of the elements Be, Li, Se, Si, C and H", J Nanomed Res.7 (4): 241–252, 2018.
- [226] **A. Heidari**, "Bastadins and bastaranes–enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules", Glob Imaging Insights, Volume 3 (4): 1–7, 2018.
- [227] **A. Heidari**, "Fucitol, pterodactyladiene, DEAD or DEADCAT (DiEthyl AzoDiCarboxylaTe), skatole, the nanoputians, thebacon, pikachurin, tie fighter, spermidine and mirasorvone nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations", Glob Imaging Insights, Volume 3 (4): 1–8, 2018.
- [228] E. Dadvar, **A. Heidari**, "A review on separation techniques of graphene oxide (GO)/base on hybrid polymer membranes for eradication of dyes and oil compounds: Recent progress in graphene oxide (GO)/base on polymer membranes–related nanotechnologies", Clin Med Rev Case Rep 5: 228, 2018.
- [229] **A. Heidari**, R. Gobato, "First–time simulation of deoxyuridine monophosphate (dUMP) (deoxyuridylic acid or deoxyuridylate) and vomitoxin (deoxynivalenol (DON)) ((3 $\alpha$ ,7 $\alpha$ )–3,7,15–trihydroxy–12,13–epoxytrichothec–9–en–8–one)–enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode

(NPME) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations”, Parana Journal of Science and Education (PJSE), Vol. 4, No. 6, pp. 46–67, 2018.

- [230] **A. Heidari**, “Buckminsterfullerene (Fullerene), bullvalene, dickite and josiphos ligands nano molecules incorporation into the nano polymeric matrix (NPM) by immersion of the nano polymeric modified electrode (NPME) as molecular enzymes and drug targets for human hematology and thromboembolic diseases prevention, diagnosis and treatment under synchrotron and synchrocyclotron radiations”, Glob Imaging Insights, Volume 3 (4): 1–7, 2018.
- [231] **A. Heidari**, “Fluctuation x-ray scattering (FXS) and wide-angle x-ray scattering (WAXS) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, Glob Imaging Insights, Volume 3 (4): 1–7, 2018.
- [232] **A. Heidari**, “A novel approach to correlation spectroscopy (COSY), exclusive correlation spectroscopy (ECOSY), total correlation spectroscopy (TOCSY), incredible natural-abundance double-quantum transfer experiment (INADEQUATE), heteronuclear single-quantum correlation spectroscopy (HSQC), heteronuclear multiple-bond correlation spectroscopy (HMBC), nuclear overhauser effect spectroscopy (NOESY) and rotating frame nuclear overhauser effect spectroscopy (ROESY) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, Glob Imaging Insights, Volume 3 (5): 1–9, 2018.
- [233] **A. Heidari**, “Terphenyl-based reversible receptor with rhodamine, rhodamine-based molecular probe, rhodamine-based using the spirolactam ring opening, rhodamine B with ferrocene substituent, calix[4]arene-based receptor, thioether + aniline-derived ligand framework linked to a fluorescein platform, mercuryfluor-1 (flourescent probe), N,N'-dibenzyl-1,4,10,13-tetraraoxa-7,16-diazacyclooctadecane and terphenyl-based reversible receptor with pyrene and quinoline as the fluorophores-enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules”, Glob Imaging Insights, Volume 3 (5): 1–9, 2018.
- [234] **A. Heidari**, “Small-angle x-ray scattering (SAXS), ultra-small angle x-ray scattering (USAXS), fluctuation x-ray scattering (FXS), wide-angle x-ray scattering (WAXS), grazing-incidence small-angle x-ray scattering (GISAXS), grazing-incidence wide-angle x-ray scattering (GIWAXS), small-angle neutron scattering (SANS), grazing-incidence small-angle neutron scattering (GISANS), x-ray diffraction (XRD), powder x-ray diffraction (PXRD), wide-angle x-ray diffraction (WAXD), grazing-incidence x-ray diffraction (GIXD) and energy-dispersive x-ray diffraction (EDXRD) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, Glob Imaging Insights, Volume 3 (5): 1–10, 2018.
- [235] **A. Heidari**, “Nuclear resonant inelastic x-ray scattering spectroscopy (NRIXSS) and nuclear resonance vibrational spectroscopy (NRVS) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, Glob Imaging Insights, Volume 3 (5): 1–7, 2018.

- [236] **A. Heidari**, “Small-angle x-ray scattering (SAXS) and ultra-small angle x-ray scattering (USAXS) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, *Glob Imaging Insights*, Volume 3 (5): 1–7, 2018.
- [237] **A. Heidari**, “Curious chloride ( $\text{CmCl}_3$ ) and titanic chloride ( $\text{TiCl}_4$ )–enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules for cancer treatment and cellular therapeutics”, *J. Cancer Research and Therapeutic Interventions*, Volume 1, Issue 1, Pages 01–10, 2018.
- [238] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “Spectroscopy and dipole moment of the molecule  $\text{C}_{13}\text{H}_{20}\text{BeLi}_2\text{SeSi}$  via quantum chemistry using *ab initio*, hartree–fock method in the base set CC–pVTZ and 6–311G\*\*(3df, 3pd)”, *Arc Org Inorg Chem Sci* 3 (5), Pages 402–409, 2018.
- [239] **A. Heidari**, “ $\text{C}_{60}$  and  $\text{C}_{70}$ –encapsulating carbon nanotubes incorporation into the nano polymeric matrix (npm) by immersion of the nano polymeric modified electrode (npme) as molecular enzymes and drug targets for human cancer cells, tissues and tumors treatment under synchrotron and synchrocyclotron radiations”, *Integr Mol Med*, Volume 5 (3): 1–8, 2018.
- [240] **A. Heidari**, “Two–dimensional (2D)  $^1\text{H}$  or proton nmr,  $^{13}\text{C}$  nmr,  $^{15}\text{N}$  nmr and  $^{31}\text{P}$  nmr spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time”, *Glob Imaging Insights*, Volume 3 (6): 1–8, 2018.
- [241] **A. Heidari**, “FT–raman spectroscopy, coherent anti–stokes raman spectroscopy (CARS) and raman optical activity spectroscopy (ROAS) comparative study on malignant and benign human cancer cells and tissues with the passage of time under synchrotron radiation”, *Glob Imaging Insights*, Volume 3 (6): 1–8. 2018.
- [242] **A. Heidari**, “A modern and comprehensive investigation of inelastic electron tunneling spectroscopy (IETS) and scanning tunneling spectroscopy on malignant and benign human cancer cells, tissues and tumors through optimizing synchrotron microbeam radiotherapy for human cancer treatments and diagnostics: An experimental biospectroscopic comparative study”, *Glob Imaging Insights*, Volume 3 (6): 1–8. 2018.
- [243] **A. Heidari**, “A hypertension approach to thermal infrared spectroscopy and photothermal infrared spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation with the passage of time”, *Glob Imaging Insights*, Volume 3 (6): 1–8. 2018.
- [244] **A. Heidari**, “Incredible natural–abundance double–quantum transfer experiment (INADEQUATE), nuclear overhauser effect spectroscopy (NOESY) and rotating frame nuclear overhauser effect spectroscopy (ROESY) comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, *Glob Imaging Insights*, Volume 3 (6): 1–8. 2018.

- [245] **A. Heidari**, “2-amino-9-((1S, 3R, 4R)-4-hydroxy-3-(hydroxymethyl)-2-methylenecyclopentyl)-1H-purin-6(9H)-one, 2-amino-9-((1R, 3R, 4R)-4-hydroxy-3-(hydroxymethyl)-2-methylenecyclopentyl)-1H-purin-6(9H)-one, 2-amino-9-((1R, 3R, 4S)-4-hydroxy-3-(hydroxymethyl)-2-methylenecyclopentyl)-1H-purin-6(9H)-One and 2-amino-9-((1S, 3R, 4S)-4-hydroxy-3-(hydroxymethyl)-2-methylenecyclopentyl)-1H-purin-6(9H)-one-enhanced precatalyst preparation stabilization and initiation nano molecules”, Glob Imaging Insights, Volume 3 (6): 1–9. 2018.
- [246] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “Spectroscopy and dipole moment of the molecule  $C_{13}H_{20}BeLi_2SeSi$  via quantum chemistry using *ab initio*, hartree-fock method in the base set CC-pVTZ and 6-311G\*\*(3df, 3pd)”, American Journal of Quantum Chemistry and Molecular Spectroscopy, Vol. 2, No. 1, pp. 9–17, 2018.
- [247] **A. Heidari**, “Production of electrochemiluminescence (ECL) biosensor using Os-Pd/HfC nanocomposites for detecting and tracking of human gastroenterological cancer cells, tissues and tumors”, Int J Med Nano Res 5: 1, 022–034, 2018.
- [248] **A. Heidari**, “Enhancing the Raman scattering for diagnosis and treatment of human cancer cells, tissues and tumors using cadmium oxide (CdO) nanoparticles”, J Toxicol Risk Assess 4: 1, 012–025, 2018.
- [249] **A. Heidari**, “Human malignant and benign human cancer cells and tissues biospectroscopic analysis under synchrotron radiation using anti-cancer nano drugs delivery”, Integr Mol Med, Volume 5 (5): 1–13, 2018.
- [250] **A. Heidari**, “Analogous nano compounds of the form  $M(C_8H_8)_2$  exist for  $M = (Nd, Tb, Pu, Pa, Np, Th, \text{ and } Yb)$ -enhanced precatalyst preparation stabilization and initiation (EPPSI) nano molecules”, Integr Mol Med, Volume 5 (5): 1–8, 2018.
- [251] **A. Heidari**, “Hadron spectroscopy, baryon spectroscopy and meson spectroscopy comparative study on malignant and benign human cancer cells and tissues under synchrotron radiation”, Integr Mol Med, Volume 5 (5): 1–8, 2018.
- [252] R. Gobato, M. R. R. Gobato, **A. Heidari**, “Raman spectroscopy study of the nano molecule  $C_{13}H_{20}BeLi_2SeSi$  using *ab initio* and hartree-fock methods in the basis set CC-pVTZ and 6-311G\*\* (3df, 3pd)”, International Journal of Advanced Engineering and Science, Volume 7, Number 1, Pages 14–35, 2019.
- [253] **A. Heidari**, R. Gobato, “Evaluating the effect of anti-cancer nano drugs dosage and reduced leukemia and polycythemia vera levels on trend of the human blood and bone marrow cancers under synchrotron radiation”, Trends in Res, Volume 2 (1): 1–8, 2019.
- [254] **A. Heidari**, R. Gobato, “Assessing the variety of synchrotron, synchrocyclotron and laser radiations and their roles and applications in human cancer cells, tissues and tumors diagnosis and treatment”, Trends in Res, Volume 2 (1): 1–8, 2019.

- [255] **A. Heidari**, R. Gobato, “*Pros and cons controversy on malignant human cancer cells, tissues and tumors transformation process to benign human cancer cells, tissues and tumors*”, Trends in Res, Volume 2 (1): 1–8, 2019.
- [256] **A. Heidari**, R. Gobato, “*Three–dimensional (3D) simulations of human cancer cells, tissues and tumors for using in human cancer cells, tissues and tumors diagnosis and treatment as a powerful tool in human cancer cells, tissues and tumors research and anti–cancer nano drugs sensitivity and delivery area discovery and evaluation*”, Trends in Res, Volume 2 (1): 1–8, 2019.
- [257] **A. Heidari**, R. Gobato, “*Investigation of energy production by synchrotron, synchrocyclotron and laser radiations in human cancer cells, tissues and tumors and evaluation of their effective on human cancer cells, tissues and tumors treatment trend*”, Trends in Res, Volume 2 (1): 1–8, 2019.
- [258] **A. Heidari**, R. Gobato, “*High–resolution mapping of DNA/RNA hypermethylation and hypomethylation process in human cancer cells, tissues and tumors under synchrotron radiation*”, Trends in Res, Volume 2 (2): 1–9, 2019.
- [259] **A. Heidari**, “*A novel and comprehensive study on manufacturing and fabrication nanoparticles methods and techniques for processing cadmium oxide (CdO) nanoparticles colloidal solution*”, Glob Imaging Insights, Volume 4 (1): 1–8, 2019.
- [260] **A. Heidari**, “*A combined experimental and computational study on the catalytic effect of aluminum nitride nanocrystal (AlN) on the polymerization of benzene, naphthalene, anthracene, phenanthrene, chrysene and tetracene*”, Glob Imaging Insights, Volume 4 (1): 1–8, 2019.
- [261] **A. Heidari**, “*Novel experimental and three–dimensional (3D) multiphysics computational framework of michaelis–menten kinetics for catalyst processes innovation, characterization and carrier applications*”, Glob Imaging Insights, Volume 4 (1): 1–8, 2019.
- [262] **A. Heidari**, “*The hydrolysis constants of copper (I) ( $\text{Cu}^+$ ) and copper (II) ( $\text{Cu}^{2+}$ ) in aqueous solution as a function of pH using a combination of pH measurement and biospectroscopic methods and techniques*”, Glob Imaging Insights, Volume 4 (1): 1–8, 2019.
- [263] **A. Heidari**, “*Vibrational biospectroscopic study of ginormous virus–sized macromolecule and polypeptide macromolecule as mega macromolecules using attenuated total reflectance–fourier transform infrared (ATR–FTIR) spectroscopy and mathematica 11.3*”, Glob Imaging Insights, Volume 4 (1): 1–8, 2019.
- [264] **A. Heidari**, “*Three–dimensional (3D) imaging spectroscopy of carcinoma, sarcoma, leukemia, lymphoma, multiple myeloma, melanoma, brain and spinal cord tumors, germ cell tumors, neuroendocrine tumors and carcinoid tumors under synchrotron radiation*”, Glob Imaging Insights, Volume 4 (1): 1–9, 2019.

- [265] R. Gobato, M. R. R. Gobato, **A. Heidari**, “*Storm vortex in the center of Paraná state on June 6, 2017: A case study*”, Sumerianz Journal of Scientific Research, Vol. 2, No. 2, Pages 24–31, 2019.
- [266] R. Gobato, M. R. R. Gobato, **A. Heidari**, “*Attenuated total reflection–fourier transform infrared (ATR–FTIR) spectroscopy study of the nano molecule  $C_{13}H_{20}BeLi_2SeSi$  using ab initio and hartree–fock methods in the basis set RHF/CC–pVTZ and RHF/6–311G\*\* (3df, 3pd): An experimental challenge to chemists*”, Chemistry Reports, Vol. 2, No. 1, Pages 1–26, 2019.
- [267] **A. Heidari**, “*Three–Dimensional (3D) Imaging Spectroscopy of Carcinoma, Sarcoma, Leukemia, Lymphoma, Multiple Myeloma, Melanoma, Brain and Spinal Cord Tumors, Germ Cell Tumors, Neuroendocrine Tumors and Carcinoid Tumors under Synchrocyclotron Radiation*”, Res Adv Biomed Sci Technol 1 (1): 01–17, 2019.
- [268] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “*New Nano–Molecule Kurumi– $C_{13}H_{20}BeLi_2SeSi/C_{13}H_{19}BeLi_2SeSi$ , and Raman Spectroscopy Using ab initio, Hartree–Fock Method in the Base Set CC–pVTZ and 6–311G\*\* (3df, 3pd)*”, J Anal Pharm Res. 8 (1): 1–6, 2019.
- [269] **A. Heidari**, J. Esposito, A. Caissutti, “*The importance of attenuated total reflectance Fourier transform infrared (ATR–FTIR) and Raman biospectroscopy of single–walled carbon nanotubes (SWCNT) and multi–walled carbon nanotubes (MWCNT) in interpreting infrared and Raman spectra of human cancer cells, tissues and tumors*”, Oncogen 2 (2): 1–21, 2019.
- [270] **A. Heidari**, “*Mechanism of action and their side effects at a glance prevention, treatment and management of immune system and human cancer nano chemotherapy*”, Nanosci Technol 6 (1): 1–4, 2019.
- [271] **A. Heidari**, J. Esposito, A. Caissutti, “*The quantum entanglement dynamics induced by non–linear interaction between a moving nano molecule and a two–mode field with two–photon transitions using reduced Von Neumann entropy and Jaynes–Cummings model for human cancer cells, tissues and tumors diagnosis*”, Int J Crit Care Emerg Med 5 (2): 071–084, 2019.
- [272] **A. Heidari**, J. Esposito, A. Caissutti, “*Palytoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, J Pharm Drug Res, 3 (1): 150–170, 2019.
- [273] **A. Heidari**, J. Esposito, A. Caissutti, “*Aplysiatoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, J Chem Sci Eng, 2 (2): 70–89, 2019.

- [274] **A. Heidari**, J. Esposito, A. Caissutti, “Cyanotoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, Br J Med Health Res. 6 (04): 21–60, 2019.
- [275] **A. Heidari**, “Potential and theranostics applications of novel anti-cancer nano drugs delivery systems in preparing for clinical trials of synchrotron microbeam radiation therapy (SMRT) and synchrotron stereotactic radiotherapy (SSRT) for treatment of human cancer cells, tissues and tumors using image guided synchrotron radiotherapy (IGSR)”, Ann Nanosci Nanotechnol. 3 (1): 1006–1019, 2019.
- [276] **A. Heidari**, J. Esposito, A. Caissutti, “Study of anti-cancer properties of thin layers of cadmium oxide (CdO) nanostructure”, Int J Analyt Bioanalyt Methods 1 (1): 003–022, 2019.
- [277] **A. Heidari**, J. Esposito, A. Caissutti, “Alpha-conotoxin, omega-conotoxin and mu-conotoxin time-resolved aAbsorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, International Journal of Advanced Chemistry, 7 (1) 52–66, 2019.
- [278] **A. Heidari**, “Clinical and medical pros and cons of human cancer cells’ enzymotherapy, immunotherapy, chemotherapy, radiotherapy, hormone therapy and targeted therapy process under synchrotron radiation: A case study on mechanism of action and their side effects”, Parana Journal of Science and Education (PJSE)–v. 5, n. 3, (1–23) May 2, 2019.
- [279] **A. Heidari**, “The importance of the power in CMOS inverter circuit of synchrotron and synchrocyclotron radiations using 50 (nm) and 100 (nm) technologies and reducing the voltage of power supply”, Radiother Oncol Int. 1 (1): 1002–1015, 2019.
- [280] **A. Heidari**, J. Esposito, A. Caissutti, “The importance of quantum hydrodynamics (QHD) approach to single-walled carbon nanotubes (SWCNT) and multi-walled carbon nanotubes (MWCNT) in genetic science”, SCIOL Genet Sci. 2 (1): 113–129, 2019.
- [281] **A. Heidari**, J. Esposito, A. Caissutti, “Anatoxin-a and anatoxin-a(s) time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, Saudi J Biomed Res, 4 (4): 174–194, 2019.
- [282] R. Gobato, M. R. R. Gobato, **A. Heidari**, “Evidence of tornado storm hit the counties of Rio Branco do Ivaí and Rosario de Ivaí, Southern Brazil”, Sci Lett. 7 (1): 32–40, 2019.
- [283] M. Jeyaraj, V. Mahalingam, A. Indhuleka, P. Sennu, M. S. Ho, **A. Heidari**, “Chemical analysis of surface water quality of river noyyal connected tank in tirupur



district, tamil nadu, India”, Water and Energy International, Volume 62r, Issue 1, pp. 63–68, 2019.

- [284] **A. Heidari**, J. Esposito, A. Caissutti, “6-methoxy-8-[[6-methoxy-8-[[6-methoxy-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-ol time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, J. Adv. Phys. Chem., Volume 1, Issue 1, pp. 1–6, 2019.
- [285] **A. Heidari**, J. Esposito, A. Caissutti, “Shiga toxin and shiga-like toxin (SLT) time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, Annal Biostat & Biomed Appli. 2 (3): 1–4, 2019.
- [286] **A. Heidari**, J. Esposito, A. Caissutti, “Alpha-bungarotoxin, beta-bungarotoxin and kappa-bungarotoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, Archives of Pharmacology and Pharmaceutical Sciences, ReDelve, Volume 2019, Issue 01, pp. 1–24, 2019.
- [287] **A. Heidari**, J. Esposito, A. Caissutti, “Okadaic acid time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, Int J Analyt Bioanalyt Methods 1 (1): 1–19, 2019.
- [288] **A. Heidari**, “Investigation of the processes of absorption, distribution, metabolism and elimination (ADME) as vital and important factors for modulating drug action and toxicity”, Open Access J Oncol, 2 (1): 180010–180012, 2019.
- [289] **A. Heidari**, J. Esposito, A. Caissutti, “Pertussis toxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, Chemistry Reports, Vol. 1 Iss. 2, Pages 1–5, 2019.
- [290] R. Gobato, M. R. R. Gobato, **A. Heidari**, “Rhodochrosite as crystal oscillator”, Am J Biomed Sci & Res. 3 (2), 187, 2019.
- [291] **A. Heidari**, J. Esposito, A. Caissutti, “Tetrodotoxin (TTX) time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis”, Journal of New Developments in Chemistry, Volume No: 2, Issue No: 3, Page Numbers 26–48, 2019.
- [292] **A. Heidari**, J. Esposito, A. Caissutti, “The importance of analysis of vibronic-mode coupling structure in vibrational spectra of supramolecular aggregates of (CA\*M)

*cyanuric acid (CA) and melamine (M) beyond the Franck–Condon approximation*”, Journal of Clinical and Medical Images, 2 (2): 1–20, 2019.

- [293] **A. Heidari**, J. Esposito, A. Caissutti, “*Microcystin–LR time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Malaysian Journal of Chemistry, Vol. 21 (1), 70–95, 2019.
- [294] **A. Heidari**, J. Esposito, A. Caissutti, “*Botulinum toxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Journal of Mechanical Design and Vibration, vol. 7, no. 1: 1–15, 2019.
- [295] **A. Heidari**, J. Esposito, A. Caissutti, “*Domoic acid (DA) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Cientific Clinical Oncology Journal 1. 2: 03–07, 2019.
- [296] **A. Heidari**, J. Esposito, A. Caissutti, “*Surugatoxin (SGTX) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Cientific Clinical Oncology Journal 1. 2: 14–18, 2019.
- [297] **A. Heidari**, J. Esposito, A. Caissutti, “*Decarbamoylsaxitoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Cientific Clinical Oncology Journal 1. 2: 19–23, 2019.
- [298] **A. Heidari**, J. Esposito, A. Caissutti, “*Gonyautoxin (GTX) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Cientific Clinical Oncology Journal 1. 2: 24–28, 2019.
- [299] **A. Heidari**, J. Esposito, A. Caissutti, “*Hislrionicotoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Cientific Drug Delivery Research 1. 1: 01–06, 2019.
- [300] **A. Heidari**, J. Esposito, A. Caissutti, “*Dihydrokainic acid time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Cientific Drug Delivery Research 1. 1: 07–12, 2019.
- [301] **A. Heidari**, J. Esposito, A. Caissutti, “*Aflatoxin B1 (AFB1), B2 (AFB2), G1 (AFG1), G2 (AFG2), M1 (AFM1), M2 (AFM2), Q1 (AFQ1) and P1 (AFP1) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density*”

*functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Drug Delivery Research* 1. 1: 25–32, 2019.

- [302] **A. Heidari**, J. Esposito, A. Caissutti, "*Mycotoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Drug Delivery Research* 1. 1: 13–18, 2019.
- [303] **A. Heidari**, J. Esposito, A. Caissutti, "*Bufotoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Drug Delivery Research* 1. 1: 19–24, 2019.
- [304] **A. Heidari**, J. Esposito, A. Caissutti, "*Kainic acid (kainite) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Journal of Neurology* 1. 2: 02–07, 2019.
- [305] **A. Heidari**, J. Esposito, A. Caissutti, "*Nereistoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Journal of Neurology* 1. 2: 19–24, 2019.
- [306] **A. Heidari**, J. Esposito, A. Caissutti, "*Spider toxin and raventoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Parana Journal of Science and Education (PJSE)*. Vol. 5, No. 4, pp. 1–28, 2019.
- [307] **A. Heidari**, J. Esposito, A. Caissutti, "*Ochratoxin A, Ochratoxin B, Ochratoxin C, Ochratoxin  $\alpha$  and Ochratoxin TA time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Drug Delivery Research* 1. 2: 03–10, 2019.
- [308] **A. Heidari**, J. Esposito, A. Caissutti, "*Brevetoxin A and B time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Drug Delivery Research* 1. 2: 11–16, 2019.
- [309] **A. Heidari**, J. Esposito, A. Caissutti, "*Lyngbyatoxin–a time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*", *Cientific Drug Delivery Research* 1. 2: 23–28, 2019.
- [310] **A. Heidari**, J. Esposito, A. Caissutti, "*Balraechotoxin (BTX) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional*

*theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, *Cientific Journal of Neurology* 1. 3: 01–05, 2019.

- [311] **A. Heidari**, J. Esposito, A. Caissutti, “*Hanatoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, *Int. J. Pharm. Sci. Rev. Res.*, 57 (1), Pages: 21–32, 2019.
- [312] **A. Heidari**, J. Esposito, A. Caissutti, “*Neurotoxin and Alpha–Neurotoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, *J Biomed Sci & Res.* 3 (6), 550–563, 2019.
- [313] **A. Heidari**, J. Esposito, A. Caissutti, “*Antillatoxin (ATX) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure*”, *American Journal of Optics and Photonics.* Vol. 7, No. 1, pp. 18–27, 2019.
- [314] R. Gobato, M. R. R. Gobato, **A. Heidari**, “*Calculation by UFF method of frequencies and vibrational temperatures of the unit cell of the rhodochrosite crystal*”, *International Journal of Advanced Chemistry*, 7 (2) 77–81, 2019.
- [315] **A. Heidari**, J. Esposito, A. Caissutti, “*Analysis of vibronic–mode coupling structure in vibrational spectra of fuzeon as a 36 amino acid peptide for HIV therapy beyond the multi–dimensional Franck–Condon integrals approximation*”, *International Journal of Advanced Chemistry*, 7 (2) 82–96, 2019.
- [316] **A. Heidari**, J. Esposito, A. Caissutti, “*Debromoaplysiatoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, *Applied Chemistry*, 2 (1) 17–54, 2019.
- [317] **A. Heidari**, J. Esposito, A. Caissutti, “*Enterotoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, *JRL J Sci Technol.* vol1–iss2: jst1001, 1–16, 2019.
- [318] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “*Rhodochrosite optical indicatrix*”, *Peer Res Nest.* 1 (3) 1–2, 2019.
- [319] **A. Heidari**, J. Esposito, A. Caissutti, “*Anthrax toxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, *Research & Reviews: Journal of Computational Biology.* 8 (2): 23–51, 2019.
- [320] **A. Heidari**, J. Esposito, A. Caissutti, “*Kalkitoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT)*

*investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, Can J Biomed Res & Tech. 2 (1): 1–21, 2019.

- [321] **A. Heidari**, J. Esposito, A. Caissutti, “*Neosaxitoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, Clin Case Studie Rep, Volume 2 (3): 1–14, 2019.
- [322] **A. Heidari**, J. Esposito, A. Caissutti, “*6-methoxy-8-[[6-methoxy-8-[[6-methoxy-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-yl]oxy]-2-methyl-1-(2-methylpropyl)-3,4-dihydro-1H-isoquinolin-7-ol time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, Clin Case Studie Rep, Volume 2 (3): 1–14, 2019.
- [323] **A. Heidari**, “*Comparison of synchrotron radiation and synchrocyclotron radiation performance in monitoring of human cancer cells, tissues and tumors*”, Clin Case Studie Rep, Volume 2 (3): 1–12, 2019.
- [324] **A. Heidari**, J. Esposito, A. Caissutti, “*Kalkitoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, Clin Case Studie Rep, Volume 2 (3): 1–14, 2019.
- [325] **A. Heidari**, J. Esposito, A. Caissutti, “*Diphtheria Toxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, Clin Case Studie Rep, Volume 2 (3): 1–14, 2019.
- [326] **A. Heidari**, J. Esposito, A. Caissutti, “*Symbiodinolide time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, Clin Case Studie Rep, Volume 2 (3): 1–14, 2019.
- [327] **A. Heidari**, J. Esposito, A. Caissutti, “*Saxitoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, Am J Exp Clin Res. 6 (4): 364–377, 2019.
- [328] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “*Hartree-Fock methods analysis protonated rhodochrosite crystal and potential in the elimination of cancer cells through synchrotron radiation*”, Radiation Science and Technology, Vol. 5, No. 3, pp. 27–36, 2019.
- [329] R. Gobato, I. K. K. Dosh, **A. Heidari**, A. Mitra, M. R. R. Gobato, “*Perspectives on the elimination of cancer cells using rhodochrosite crystal through synchrotron radiation,*

and absorption the tumoral and non-tumoral tissues”, Arch Biomed Eng & Biotechnol. 3 (2): 1–2, 2019.

- [330] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “Unrestricted hartree-fock computational simulation in a protonated rhodochrosite crystal”, Phys Astron Int J. 3 (6):220–228, 2019.
- [331] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “Perspectives on sub-nanometer level of electronic structure of the synchrotron with mendelevium nanoparticles for elimination of human cancer cells, tissues and tumors treatment using mathematica 12.0”, Journal of Energy Conservation, Volume 1, Issue 2, Pages 46–73, 2019.
- [332] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “Simulation of interaction of synchrotron radiation emission as a function of the beam energy and bohrium nanoparticles using 3D finite element method (fem) as an optothermal human cancer cells, tissues and tumors treatment”, Current Research in Biochemistry and Molecular Biology, 1 (1), 17–44, 2019.
- [333] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “Investigation of interaction between synchrotron radiation and thulium nanoparticles for human cancer cells, tissues and tumors treatment”, European Journal of Scientific Exploration, Volume 2, Issue 3, Pages 1–8, 2019.
- [334] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “The effectiveness of the treatment human cancer cells, tissues and tumors using darmstadtium nanoparticles and synchrotron radiation”, International Journal of Advanced Engineering and Science, Volume 9, Number 1, Pages 9–39, 2020.
- [335] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “Using 3D finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment in simulation of interaction of synchrotron radiation emission as a function of the beam energy and uranium nanoparticles”, Nano Prog., 1 (2), 1–6, 2019.
- [336] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “A new approach to interaction between beam energy and erbium nanoparticles”, Saudi J Biomed Res, 4 (11): 372–396, 2019.
- [337] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “Consideration of energy functions and wave functions of the synchrotron radiation and samarium nanoparticles interaction during human cancer cells, tissues and tumors treatment process”, Sci. Int. (Lahore), 31 (6), 885–908, 2019.
- [338] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “An outlook on optothermal human cancer cells, tissues and tumors treatment using lanthanum nanoparticles under synchrotron radiation”, Journal of Materials Physics and Chemistry, Vol. 7, No. 1, 29–45, 2019.

- [339] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Effectiveness of einsteinium nanoparticles in optothermal human cancer cells, tissues and tumors treatment under synchrotron radiation*”, *Journal of Analytical Oncology*, 8, 1, 43–62, 2019.
- [340] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of relation between synchrotron radiation and dubnium nanoparticles in human cancer cells, tissues and tumors treatment process*”, *Int. Res. J. Applied Sci.*, Volume 1, Number 4, Pages 1–20, 2019.
- [341] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*A novel prospect on interaction of synchrotron radiation emission and europium nanoparticles for human cancer cells, tissues and tumors treatment*”, *European Modern Studies Journal*, 3 (5), 11–24, 2019.
- [342] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Advantages, effectiveness and efficiency of using neodymium nanoparticles by 3D finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment under synchrotron radiation*”, *International Journal of Advanced Chemistry*, 7 (2) 119–135, 2019.
- [343] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Role and applications of promethium nanoparticles in human cancer cells, tissues and tumors treatment*”, *Scientific Modelling and Research*, 4 (1): 8–14, 2019.
- [344] **A. Heidari**, J. Esposito, A. Caissutti, “*Maitotoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis: A spectroscopic study on an anti-cancer drug*”, *Glob Imaging Insights* 4 (2), 1–13, 2019.
- [345] **A. Heidari**, J. Esposito, A. Caissutti, “*Biotoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, *Glob Imaging Insights* 4 (2), 1–14, 2019.
- [346] **A. Heidari**, J. Esposito, A. Caissutti, “*Time-resolved resonance FT-IR and Raman spectroscopy and density functional theory investigation of vibronic-mode coupling structure in vibrational spectra of nanopolypeptide macromolecule beyond the multi-dimensional Franck-Condon integrals approximation and density matrix method*”, *Glob Imaging Insights* 4 (2), 1–14, 2019.
- [347] **A. Heidari**, J. Esposito, A. Caissutti, “*Cholera toxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis*”, *Glob Imaging Insights* 4 (2), 1–14, 2019.
- [348] **A. Heidari**, J. Esposito, A. Caissutti, “*Nodularin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT)*

*investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Glob Imaging Insights 4 (2), 1–14, 2019.

- [349] **A. Heidari**, J. Esposito, A. Caissutti, “*Cangitoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Glob Imaging Insights 4 (2), 1–13, 2019.
- [350] **A. Heidari**, J. Esposito, A. Caissutti, “*Ciguatoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Glob Imaging Insights 4 (2), 1–14, 2019.
- [351] **A. Heidari**, J. Esposito, A. Caissutti, “*Brevetoxin (a) and (b) time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis: A spectroscopic study on an anti–HIV drug*”, Cientific Drug Delivery Research 1 (2), 11–16, 2019.
- [352] **A. Heidari**, J. Esposito, A. Caissutti, “*Cobrotoxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Trends in Res 3 (1), 1–13, 2019.
- [353] **A. Heidari**, J. Esposito, A. Caissutti, “*Cylindrospermopsin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Trends in Res 3 (1), 1–14, 2019.
- [354] **A. Heidari**, J. Esposito, A. Caissutti, “*Anthrax toxin time–resolved absorption and resonance FT–IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic–mode coupling structure in vibrational spectra analysis*”, Trends in Res 3 (1), 1–14, 2019.
- [355] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Investigation of moscovium nanoparticles as anti–cancer nano drugs for human cancer cells, tissues and tumors treatment*”, Elixir Appl. Chem. 137A, 53943–53963, 2019.
- [356] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of function of the beam energy and holmium nanoparticles using 3D finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment*”, European Journal of Advances in Engineering and Technology, 6 (12): 34–62, 2019.
- [357] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Human cancer cells, tissues and tumors treatment using dysprosium nanoparticles*”, Asian J. Mat. Chem. 4 (3–4), pp. 47–51, 2019.



- [358] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Simulation of interaction of synchrotron radiation emission as a function of the beam energy and plutonium nanoparticles using 3d finite element method (fem) as an optothermal human cancer cells, tissues and tumors treatment*”, J. Cancer Research and Cellular Therapeutics, Volume 2 (4), Pages 1–19, 2019.
- [359] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of gadolinium nanoparticles delivery effect on human cancer cells, tissues and tumors treatment under synchrotron radiation*”, Applied Chemistry, 2 (2) 55–97, 2019.
- [360] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, R. Gobato, “*Pros and cons of livermorium nanoparticles for human cancer cells, tissues and tumors treatment under synchrotron radiation using mathematica 12.0*”, Parana Journal of Science and Education (PJSE) – v. 6, n. 1, (1–31) January 11, 2020.
- [361] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “*Challenging giants. Hartree–fock methods analysis protonated rhodochrosite crystal and potential in the elimination of cancer cells through synchrotron radiation*”, Biomed J Sci & Tech Res 25 (1), pp. 18843–18848, 2020.
- [362] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Simulation of interaction between ytterbium nanoparticles and human gum cancer cells, Tissues and Tumors Treatment under Synchrotron Radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–18, 2019.
- [363] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Modelling of interaction between curium nanoparticles and human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–18, 2019.
- [364] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of berkelium nanoparticles delivery effectiveness and efficiency on human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–18, 2019.
- [365] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Fermium nanoparticles delivery mechanism in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–17, 2019.
- [366] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Advantages of lawrencium nanoparticles for human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–18, 2019.
- [367] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Pros and cons of the roentgenium nanoparticles for human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–17, 2019.

- [368] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Imagery of flerovium nanoparticles delivery process in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–18, 2019.
- [369] **A. Heidari**, J. Esposito, A. Caissutti, “*Maitotoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis: A spectroscopic study on an anti-gum cancer drug*”, Dent Oral Maxillofac Res, Volume 5, Issue 5, Pages 1–16, 2019.
- [370] **A. Heidari**, J. Esposito, A. Caissutti, “*Batrachotoxin time-resolved absorption and resonance FT-IR and Raman biospectroscopy and density functional theory (DFT) investigation of vibronic-mode coupling structure in vibrational spectra analysis: A spectroscopic study on an anti-gum cancer drug*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1–16, 2019.
- [371] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Hafnium nanoparticles and their roles and applications in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1–17, 2019.
- [372] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Dramaturgy of technetium nanoparticles delivery process in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1–19, 2019.
- [373] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Computational approach to interaction between synchrotron radiation emission as a function of the beam energy and ruthenium nanoparticles in human gum cancer cells, tissues and tumors treatment*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1–18, 2019.
- [374] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Appearance check of rhodium nanoparticles delivery trend in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1–19, 2019.
- [375] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Orientation rhenium nanoparticles delivery target on human gum cancer cells, tissues and tumors under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1–18, 2019.
- [376] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Drug delivery systems (DDSs) of osmium nanoparticles on human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1– 18, 2019.
- [377] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Development of successful formulations for oral drug delivery concepts of iridium nanoparticles in human gum*”

*cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 5, Issue 6, Pages 1–19, 2019.

- [378] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Classification of drug delivery system of niobium nanoparticles in human gum cancer gum cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 1, Pages 1–17, 2020.
- [379] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Types of drug delivery system slideshare of protactinium nanoparticles in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 1, Pages 1–17, 2020.
- [380] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*New drug delivery system in pharmaceuticals of neptunium nanoparticles in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 1, Pages 1–18, 2020.
- [381] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Drug delivery describes the method and approach to delivering drugs or pharmaceuticals and other xenobiotics to their site of action within radon nanoparticles effects on human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 1, Pages 1–18, 2020.
- [382] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Applications of oganesson nanoparticles in increasing rapidly with the promise of targeted and efficient drug delivery in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 1, Pages 1–19, 2020.
- [383] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Wheeler–Feynman time–symmetric study of effectiveness and efficiency of terbium nanoparticles delivery mechanism in human cancer cells, tissues and tumors under synchrotron radiation*”, Frontiers Drug Chemistry Clinical Res, Volume 3, Issue 1, Pages 1–13, 2020.
- [384] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Simulation of interaction of synchrotron radiation emission as a function of the beam energy and californium nanoparticles using 3d finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment*”, Oncol Res: Open Acce. 1 (1): 1–17, 2019.
- [385] **A. Heidari**, “*Market analysis of glycobiology and glycochemistry 2020*”, J Genet Disor Genet Rep. 8: 1, 2019.
- [386] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Synchrotron radiation emission as a function of the beam energy and thorium nanoparticles*”, International Medicine; 2 (1): 67–73, 2020.

- [387] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Stochastic study of relativistic lutetium nanoparticles moving in a quantum field of synchrotron radiation emission when charged lutetium nanoparticles are accelerated radially in human cancer cells, tissues and tumors treatment*”, *Frontiers Drug Chemistry Clinical Res*, Volume 3, Issue 1, Pages 1–15, 2020.
- [388] **A. Heidari**, A. Caissutti, M. Henderson, K. Schmitt, E. Besana, J. Esposito, V. Peterson, “*Recent new results and achievements of california south university (CSU) biospectroscopy core research laboratory for COVID–19 or 2019–nCoV treatment: Diagnosis and treatment methodologies of “coronavirus”*”, *Journal of Current Viruses and Treatment Methodologies*, Vol–1, Issue 1, Pg. no. 3–41, 2020.
- [389] **A. Heidari**, “*Awards 2020 on glycobiology*”, *J Mol Biol Methods*. 2: 2, 2019.
- [390] **A. Heidari**, “*Young research forum–young scientist awards at glycobiology 2020*”, *J Genet Disor Genet Rep*. 8: 2, 2019.
- [391] **A. Heidari**, “*2020 awards on 2<sup>nd</sup> world congress on neurology*”, *J Neurol Neurophysiol*. 10: 6, 2019.
- [392] **A. Heidari**, “*2020 conference announcement on 2<sup>nd</sup> world congress on neurology*”, *J Neurol Neurophysiol*. 10: 6, 2019.
- [393] **A. Heidari**, “*Awards for best research: Gastroenterology and digestive disorders*”, *J. Med. Med. Sci*. Vol. 10, No. 2, 2019.
- [394] **A. Heidari**, “*Market analysis: Gastroenterology and digestive disorders*”, *J. Med. Med. Sci*. Vol. 10, No. 2, 2019.
- [395] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of human cancer cells, tissues and tumors treatment through interaction between synchrotron radiation and cerium nanoparticles*”, *Sci Lett*. 8 (1): 7–17, 2020.
- [396] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of characteristic polarization and the frequencies generated in interaction of synchrotron radiation emission and actinium nanoparticles in human cancer cells, tissues and tumors treatment process*”, *Parana Journal of Science and Education (PJSE)*–v. 6, n.3, (13–47) April 15, 2020.
- [397] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Californium nanoparticles and human cancer treatment: Commemorating the 100<sup>th</sup> (1920–2020) anniversary of the california south university (CSU)*”, *Parana Journal of Science and Education (PJSE)*–v. 6, n. 3, (48–83) April 15, 2020.
- [398] **A. Heidari**, “*2020 conference announcement on materials chemistry*”, *J Polym Sci Appl*. 3: 1, 2019.

- [399] **A. Heidari**, “*Announcement–materials chemistry–2020*”, J Polym Sci Appl. 3: 1, 2019.
- [400] **A. Heidari**, “*Awards 2020 of 19<sup>th</sup> world congress on materials chemistry*”, J Polym Sci Appl. 3: 1, 2019.
- [401] **A. Heidari**, “*Awards at materials chemistry & science conference 2020*”, J Polym Sci Appl. 3: 1, 2019.
- [402] **A. Heidari**, “*Market analysis of 19<sup>th</sup> world congress on materials chemistry*”, J Polym Sci Appl. 3: 1, 2019.
- [403] **A. Heidari**, “*Past conference report on materials chemistry*”, J Polym Sci Appl. 3: 1, 2019.
- [404] **A. Heidari**, “*Market analysis*”, J Polym Sci Appl. 3: 4, 2019.
- [405] **A. Heidari**, “*17<sup>th</sup> international conference materials science and engineering*”, J Electr Eng Electron Technol. 8: 3, 2019.
- [406] **A. Heidari**, “*16<sup>th</sup> international conference on advance material & nanotechnology*”, J Electr Eng Electron Technol. 8: 4, 2019.
- [407] **A. Heidari**, “*Young research forum on laser advanced materials processing*”, J Electr Eng Electron Technol. 8: 4, 2019.
- [408] **A. Heidari**, “*Market analysis of materials science and engineering*”, Biomater Med Appl. 3: 1, 2019.
- [409] **A. Heidari**, “*Nanotechnology 2020 conference announcement: nanotechnology and nano engineering*”, Biomater Med Appl. 3: 1, 2019.
- [410] **A. Heidari**, “*17<sup>th</sup> international conference on material science and engineering*”, Biomater Med Appl. 3: 2, 2019.
- [411] **A. Heidari**, “*Young scientist awards of pharmacovigilance 2020*”, J Pharm Drug Deliv Res. 8: 1, 2019.
- [412] **A. Heidari**, “*Awards 2020 on pharmacovigilance & drug safety*”, J Pharm Drug Deliv Res. 8: 2, 2019.
- [413] **A. Heidari**, “*2020 conference announcement of world congress on glycobiology & glycochemistry*”, J Cell Biol Res Ther. 8: 3, 2019.
- [414] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*A chemical review on cancer immunology and immunodeficiency*”, International Journal of Advanced Chemistry, 8 (1): 27–43, 2020.

- [415] **A. Heidari**, V. Peterson, “*A comprehensive review on functional roles of cancerous immunoglobulins and potential applications in cancer immunodiagnostics and immunotherapy*”, International Journal of Advanced Chemistry, 8 (1): 44–58, 2020.
- [416] **A. Heidari**, V. Peterson, “*An encyclopedic review on stereotactic hypofractionated radiotherapy, re irradiation, and cancer genome research*”, International Journal of Advanced Chemistry, 8 (1): 59–74, 2020.
- [417] **A. Heidari**, V. Peterson, “*A pervasive review on biomarker in cervical intraepithelial lesions and carcinoma*”, International Journal of Advanced Chemistry, 8 (1): 75–88, 2020.
- [418] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Hereditary immunity in cancer*”, International Journal of Advanced Chemistry, 8 (1): 94–110, 2020.
- [419] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, I. K. K. Dosh, “*Secret messages in enigmatic playful texts*”, ABEB, 4 (2): 1–10, 2020.
- [420] **A. Heidari**, R. Gobato, M. R. R. Gobato, A. Mitra, “*Hartree–Fock methods analysis protonated rhodochrosite crystal and potential in the elimination of cancer cells through synchrotron radiation using small–angle x–ray scattering (SAXS), ultra–small angle x–ray scattering (USAXS), fluctuation x–ray scattering (FXS), wide–angle x–ray scattering (WAXS), grazing–incidence small–angle x–ray scattering (GISAXS), grazing–incidence wide–angle x–ray scattering (GIWAXS) and small–angle neutron scattering (SANS)*”, AJAN, 1 (1): 1–8, 2020.
- [421] **A. Heidari**, R. Gobato, I. K. K. Dosh, A. Mitra, M. R. R. Gobato, “*Single layer bioinorganic membrane using the kurumi molecule*”, AJAN, 1 (1): 16–20, 2020.
- [422] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of pulsed time structure of nobelium nanoparticles in human cancer cells, tissues and tumors treatment process which covers from microwaves to hard x–rays*”, Dent Oral Maxillofac Res, Volume 6, Issue 2, Pages 1–17, 2020.
- [423] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Abraham–Lorentz–Dirac force approach to interaction of synchrotron radiation emission as a function of the beam energy and rutherfordium nanoparticles using 3D finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment*”, Dent Oral Maxillofac Res, Volume 6, Issue 2, Pages 1–17, 2020.
- [424] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Liénard–Wiechert field study of interaction of synchrotron radiation emission as a function of the beam energy and seaborgium nanoparticles using 3d finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment*”, Dent Oral Maxillofac Res, Volume 6, Issue 2, Pages 1–17, 2020.

- [425] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Lorenz gauge, electric and magnetic fields study of interaction of gravitationally accelerating ions through the super contorted 'tubular' polar areas of magnetic fields and hassium nanoparticles*”, Dent Oral Maxillofac Res, Volume 6, Issue 2, Pages 1–18, 2020.
- [426] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Scalar Abraham–Lorentz–Dirac–Langevin equation, radiation reaction and vacuum fluctuations simulation of interaction of synchrotron radiation emission as a function of the beam energy and tennesine nanoparticles using 3d finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment*”, Dent Oral Maxillofac Res, Volume 6, Issue 2, Pages 1–17, 2020.
- [427] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*The dynamics and quantum mechanics of an interaction of synchrotron radiation emission as a function of the beam energy and meitnerium nanoparticles using 3d finite element method (FEM) as an optothermal human cancer cells, tissues and tumors treatment*”, Dent Oral Maxillofac Res, Volume 6, Issue 2, Pages 1–17, 2020.
- [428] **A. Heidari**, “*Future advanced study of thin layers of DNA/RNA hybrid molecule nanostructure*”, J Mol Nanot Nanom 2 (1): 110–116, 2020.
- [429] **A. Heidari**, “*Market analysis–artificial intelligence 2020*”, J Comput Eng Inf Technol. 8: 4, 2019.
- [430] **A. Heidari**, “*Conference announcement on artificial intelligence*”, J Appl Bioinformat Computat Biol. 8: 2, 2019.
- [431] **A. Heidari**, “*Awards on artificial intelligence and cognitive healthcare*”, J Appl Bioinformat Computat Biol. 8: 2, 2019.
- [432] **A. Heidari**, “*Study of thin layers of cadmium oxide (CdO) nanostructure*”, Nano Prog., 2 (3), 1–10, 2020.
- [433] **A. Heidari**, “*Young researchers awards: Young scientist awards & best poster awards at environmental chemistry and engineering conference*”, J Civil Environ Eng. 9: 3, 2019.
- [434] **A. Heidari**, “*2020 market analysis of environmental chemistry and engineering conference August 19–20, 2020 | Paris, France*”, J Civil Environ Eng. 9: 4, 2019.
- [435] **A. Heidari**, “*2020 awards for environmental chemistry and engineering conference August 19–20, 2020 | Paris, France*”, J Civil Environ Eng. 9: 4, 2019.
- [436] **A. Heidari**, “*Past conference report of environmental chemistry and engineering conference*”, J Civil Environ Eng. 9: 4, 2019.
- [437] **A. Heidari**, “*Awards announcement on world congress on glycobiology & glycochemistry*”, J Appl Microbiol Biochem. Vol. 3 No. 3, 2019.

- [438] **A. Heidari**, “*Market analysis of glycobiology and glycochemistry 2020*”, J Appl Microbiol Biochem. Vol. 3 No. 3, 2019.
- [439] **A. Heidari**, “*Young research forum–young scientist awards: Geriatric–health–2020*”, J Aging Geriatr Med. 3: 3, 2019.
- [440] **A. Heidari**, “*Young scientist awards at tissue engineering 2020 for the best researches in tissue engineering & regenerative medicine*”, J Aging Geriatr Med. 3: 3, 2019.
- [441] **A. Heidari**, “*Effect of solvent on non–linear synchrotron absorption of multi–walled carbon nanotubes (MWCNTs) with DNA/RNA function*”, Sci. Int. (Lahore), 32 (3), 291–315, 2020.
- [442] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of copernicium nanoparticles delivery process in human cancer cells, tissues and tumors under gravitationally accelerating ions through the super contorted ‘tubular’ polar areas of magnetic fields*”, Adv. Sci. Eng. Med. 12 (5), 571–575, 2020.
- [443] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Specific and selective targeting human cancer cells, tissues and tumors with seaborgium nanoparticles as carriers and nano–enhanced drug delivery and therapeutic in cancer treatment and beyond under synchrotron radiation*”, Parana Journal of Science and Education (PJSE). Vol. 6, No. 4, pp. 8–50, 2020.
- [444] **A. Heidari**, “*Enhancement of visible synchrotron absorption in cadmium oxide (CdO) nanoparticles thin layer using plasmonic nanostructures: A two–dimensional (2D) simulation*”, Sci. Int. (Lahore), 32 (3), 329–354, 2020.
- [445] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Nanomedicines based americium nanoparticles drug delivery systems for anti–cancer targeting and treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 3, Pages 1–18, 2020.
- [446] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Study of exclusively focused on translational aspects of praseodymium nanoparticles drug delivery under super contorted tubular polar areas of magnetic fields as optothermal human gum cancer cells, tissues and tumors treatment technique under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 3, Pages 1–17, 2020.
- [447] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Research activities on novel drug delivery systems of astatine nanoparticles in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 3, Pages 1–17, 2020.
- [448] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Unprecedented progresses of biomedical nanotechnology during conventional smart drug delivery systems (SDDSs) of*



*francium nanoparticles in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*", Dent Oral Maxillofac Res, Volume 6, Issue 3, Pages 1– 20, 2020.

- [449] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Non-invasive image-guided targeted drug delivery of radium nanoparticles in human gum cancer cells, tissues and tumors treatment under synchrotron radiation*”, Dent Oral Maxillofac Res, Volume 6, Issue 3, Pages 1–20, 2020.
- [450] **A. Heidari**, “*A novel approach to reduce toxicities and to improve bioavailabilities of DNA/RNA of human cancer cells-containing cocaine (coke), lysergide (lysergic acid diethyl amide or LSD),  $\Delta^9$ -tetrahydrocannabinol (THC) [(-)- trans- $\Delta^9$ -tetrahydrocannabinol], theobromine (xantheose), caffeine, aspartame (APM) (nutrasweet) and zidovudine (ZDV) [azidothymidine (AZT)] as anti-cancer nano drugs by coassembly of dual anti-cancer nano drugs to inhibit DNA/RNA of human cancer cells drug resistance*”, Ely J Mat Sci Tech 1 (1): 1–2, 2018.
- [451] **A. Heidari**, “*Investigation of prevention, protection and treatment of lopinavir effectiveness on coronavirus disease-2019 (COVID-19) infection using fourier transform raman (FT-Raman) biospectroscopy*”, AJAN, 1 (3): 36–60, 2020.
- [452] **A. Heidari**, “*Stimulated FT-IR biospectroscopic study of lopinavir protective and therapeutic effect as a potent drug on coronavirus disease-2019 (COVID-19) infection*”, AJAN, 1 (3): 61–85, 2020.
- [453] **A. Heidari**, R. Gobato, “*The comparison of active cooperative and traditional teaching methods in nanochemistry students' satisfaction and learning of clinical nanochemistry*”, AJAN, 1 (3): 86–112, 2020.
- [454] **A. Heidari**, R. Gobato, “*Study of nanochemistry students' satisfaction and learning with blended education: An action research study*”, AJAN, 1 (3): 113–138, 2020.
- [455] **A. Heidari**, “*Study of stimulated Raman biospectroscopy in lopinavir as a potent drug against coronavirus disease-2019 (COVID-19) infection*”, AJAN, 1 (3): 139–163, 2020.
- [456] **A. Heidari**, “*In situ monitoring of ritonavir protective and therapeutic influence as a potent drug on coronavirus disease-2019 (COVID-19) infection by attenuated total reflectance-fourier transform infrared (ATR-FTIR fingerprint) biospectroscopy*”, Saudi J Biomed Res, 5 (6): 128–151, 2020.
- [457] **A. Heidari**, “*A stimulated FT-IR biospectroscopic study of ritonavir protective and therapeutic effect as a potent drug on coronavirus disease-2019 (COVID-19) infection*”, Saudi J Biomed Res, 5 (6): 152–174, 2020.
- [458] **A. Heidari**, “*Application of single-walled carbon nanotubes (SWCNT) in the production of glucose biosensors and improving their performance using gold colloidal*

*nanoparticles and usage of polyaniline nanostructure-based biosensors for detecting glucose and cholesterol*”, Malaysian Journal of Chemistry, Vol. 22 (2), 121–162, 2020.

- [459] **A. Heidari**, “*In situ monitoring of lopinavir protective and therapeutic influence as a potent drug on coronavirus disease–2019 (COVID–19) infection by attenuated total reflectance–fourier transform infrared (ATR–FTIR fingerprint) biospectroscopy*”, Parana Journal of Science and Education (PJSE), Vol. 6, No. 5, pp. 29–60, 2020.
- [460] **A. Heidari**, K. Schmitt, M. Henderson, E. Besana, “*Modelling and simulation of interaction of magnetobremstrahlung radiation and nihonium nanoparticles using bending magnets, undulators and/or wigglers in storage rings for human cancer cells, tissues and tumors treatment*”, Sci. Int. (Lahore), 32 (4), 361–385, 2020.
- [461] **A. Heidari**, “*Oncological study of thin layers of imatinib molecule nanostructure for chronic myelogenous leukemia (CML), acute lymphocytic leukemia (ALL), philadelphia chromosome–positive (Ph+), gastrointestinal stromal tumors (GIST), hypereosinophilic syndrome (HES), chronic eosinophilic leukemia (CEL), systemic mastocytosis and myelodysplastic syndrome treatment*”, Adv. Sci. Eng. Med. 12 (6), 753–760, 2020.
- [462] **A. Heidari**, “*Infrastructure of synchrotronic biosensor based on semiconductor device fabrication for tracking, monitoring, imaging, measuring, diagnosing and detecting cancer cells*”, Semiconductor Science and Information Devices, Volume 01, Issue 02, Pages 29–57, 2019.
- [463] **A. Heidari**, “*In situ characterization of lopinavir by ATR–FTIR biospectroscopy*”, Computational Chemistry, 8 (3), 27–42, 2020.
- [464] **A. Heidari**, “*Study of stimulated Raman biospectroscopy in ritonavir as a potent drug against coronavirus disease–2019 (COVID–19) infection*”, Saudi J Biomed Res, 5 (7): 188–211, 2020.
- [465] **A. Heidari**, “*Investigation of prevention, protection and treatment of ritonavir effectiveness on coronavirus disease–2019 (COVID–19) infection using Fourier transform Raman (FT–Raman) biospectroscopy*”, Saudi J Biomed Res, 5 (7): 212–235, 2020.
- [466] R. Gobato, **A. Heidari**, “*Cyclone bomb hits southern brazil in mid–winter 2020*”, Journal of Atmospheric Science Research, Volume 03, Issue 03, Pages 8–12, 2020.
- [467] **A. Heidari**, “*A biospectroscopic and bioimaging analysis of imatinib nanoparticles aggregation linked to DNA/RNA by bcr–abl tyrosine–kinase inhibitors (TKI) with various chain length*”, Sci. Int. (Lahore), 32 (4), 459–482, 2020.
- [468] **A. Heidari**, “*Future perspectives and shaping trends in gastroenterology and digestive disorders*”, J Health Med Res 1 (1): 47–48, 2019.

- [469] **A. Heidari**, “*Latest research works and innovations in the field of oncology*”, J Carcinog Mutagen, Vol. 11, Iss. 4, No: e126, 2020.
- [470] **A. Heidari**, “*Investigating the effect of synchrotron removal from raman spectra for quantitative analysis of cancer tissues*”, Current Research in Cytology and Histology, 1 (1): 29–35, 2020.
- [471] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “*Potential in the elimination of cancer cells through synchrotron radiation: A Hartree–Fock methods analysis protonated rhodochrosite crystal*”, Dent Oral Maxillofac Res, Volume 6, Issue 4, Pages 1–8, 2020.
- [472] R. Gobato, M. R. R. Gobato, **A. Heidari**, A. Mitra, “*Infrared spectrum, apt charges and mulliken of Hartreefock methods protonated rhodochrosite crystal*”, Dent Oral Maxillofac Res, Volume 6, Issue 4, Pages 1–8, 2020.
- [473] R. Gobato, I. K. K. Dosh, **A. Heidari**, A. Mitra, M. R. R. Gobato, “*A novel and exquisite approach to single layer bioinorganic membranes*”, Dent Oral Maxillofac Res, Volume 6, Issue 4, Pages 1–4, 2020.
- [474] **A. Heidari**, “*Manufacture of synchrotronic biosensor using Os–Pd/HfC nanocomposite for tracking, monitoring, imaging, measuring, diagnosing and detecting cancer cells*”, Journal of Clinical and Translational Oncology, 1 (1): 20–26, 2020.
- [475] **A. Heidari**, “*Role and applications of synchrotron removal from raman spectra for quantitative analysis of cancer tissues*”, Aswan University Journal of Environmental Studies (AUJES), Vol. 1, No. 1, pp. 57–96, 2020.
- [476] **A. Heidari**, “*Investigation of role and applications of polymeric stimuli-responsive nanocomposite materials as biomolecules for cancer targeted in anti-cancer nano drugs delivery agents and systems*”, Parana Journal of Science and Education (PJSE), Vol. 6, No. 9, pp. 39–74, 2020.
- [477] R. Gobato, **A. Heidari**, A. Mitra, M. R. R. Gobato, “*Vortex cotes’s spiral in an extratropical cyclone in the southern coast of Brazil*”, Arch Biomed Eng & Biotechnol. 4 (5): 2020.
- [478] R. Gobato, **A. Heidari**, “*Vortex hits southern Brazil in 2020*”, J Cur Tre Phy Res App, Volume 1, Issue 2, Pages 109–112, 2020.
- [479] **A. Heidari**, “*Synthesis of fructose biosensors and progressing their efficiency using californium colloidal nanoparticles for detecting fructose and triglycerides*”, Adv. Sci. Eng. Med. 12 (8), 1002–1017, 2020.
- [480] R. Gobato, **A. Heidari**, A. Mitra, M. R. R. Gobato, “*Cotes's spiral vortex in extratropical cyclone bomb south atlantic oceans*”, Aswan University Journal of Environmental Studies (AUJES), Vol. 1, No. 2, pp. 147–156, 2020.

- [481] **A. Heidari**, “*Young researcher forum for 2<sup>nd</sup> world congress on neurology*”, J Neurol Neurophysiol, 10: 4, 2019.
- [482] **A. Heidari**, “*World congress on health and medical science*”, Journal of Emerging Diseases and Preventive Medicine, Volume 3, Issue 4, Page 01, 2020.
- [483] **A. Heidari**, “*Scientific challenges and recent advancements of dermatology and cosmetology*”, J Clin Exp Pathol, Volume 3, Issue 9, 2019.
- [484] R. Gobato, **A. Heidari**, A. Mitra, “*Bioinorganic membrane using kurumi, a new liquid crystal*”, Sumerianz Journal of Biotechnology, Vol. 4, No. 1, pp. 4–7, 2021.
- [485] **A. Heidari**, “*A stimulated FT–IR biospectroscopic study of lopinavir protective and therapeutic effect as a potent drug on coronavirus disease–2019 (COVID–19) infection*”, Parana Journal of Science and Education (PJSE)–v. 7, n. 2, (1–33) March 1, 2021.
- [486] **A. Heidari**, “*Simulation of the variations of surface synchrotron resonance spectrum of arranged cadmium oxide (CdO) nanoparticles over cancer tissues matrix with size and distance*”, Parana Journal of Science and Education (PJSE)–v. 7, n. 2, (34–67) March 1, 2021.
- [487] **A. Heidari**, R. Gobato, “*Spherical paramagnetic contribution to shielding tensor analysis of nuclear magnetic resonance signals in gum cancer cells, tissues and tumors*”, Dent Oral Maxillofac Res, Volume 6, Issue 5, Pages 1–2, 2020.
- [488] **A. Heidari**, R. Gobato, “*Exact NMR simulation of anti–cancer nano drug–DNA/RNA complexes in gum cancer cells spin systems using tensor train formalism*”, Dent Oral Maxillofac Res, Volume 6, Issue 5, Pages 1–2, 2020.
- [489] **A. Heidari**, R. Gobato, “*The anti–cancer nano drug delivery <sup>13</sup>C–edited/<sup>13</sup>C–filtered transferred dynamic <sup>15</sup>N{<sup>1</sup>H} NOE measurements for studying DNA/RNA interactions with short non–linear motifs: A modern tool for studying DNA/RNA dynamics in gum cancer cells*”, Dent Oral Maxillofac Res, Volume 6, Issue 5, Pages 1–2, 2020.
- [490] **A. Heidari**, R. Gobato, “*DNA/RNA of gum cancer cells—anti–cancer nano drugs ligands structure determination with the two–dimensional NMR molecular line shape analysis of single, multiple, zero and double quantum correlation experiments*”, Dent Oral Maxillofac Res, Volume 6, Issue 5, Pages 1–3, 2020.
- [491] **A. Heidari**, R. Gobato, “*Investigation of the internal structure and dynamics of gum cancer cells, tissues and tumors by <sup>13</sup>C–NMR spectra of DNA/RNA of gum cancer cells as an essential structural tool for integrative studies of gum cancer cells development*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–3, 2020.
- [492] **A. Heidari**, R. Gobato, “*NMR and molecular dynamics studies combined to anti–cancer nano drugs and DNA/RNA interactions in gum cancer cells and their*

*modulations with resistance mutations*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–2, 2020.

- [493] **A. Heidari**, R. Gobato, “*Advanced isotopic labeling for the NMR investigation of challenging DNA/RNA of gum cancer cells and anti–cancer nano drugs for production of isotope–labeled DNA/RNA in gum cancer cells for NMR spectroscopy*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–3, 2020.
- [494] **A. Heidari**, R. Gobato, “*Simultaneous detection of intra– and inter–molecular paramagnetic relaxation enhancements in DNA/RNA of gum cancer cells–anti–cancer nano drugs complexes*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–2, 2020.
- [495] **A. Heidari**, R. Gobato, “*Impact of DNA/RNA self–alignment in a strong magnetic field on the interpretation of indirect spin–spin interactions using NMR line shape analysis of a multi–state DNA/RNA ligand binding mechanism in gum cancer cells*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–2, 2020.
- [496] **A. Heidari**, R. Gobato, “*Application of anti–cancer nano drugs particles (ACNDP) to NMR characterization of viral gum cancer cell membrane DNA/RNA interactions for extracting DNA/RNA dynamics information from overlapped NMR signals using relaxation dispersion difference NMR spectroscopy*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–2, 2020.
- [497] **A. Heidari**, R. Gobato, “*Diagnosis of gum cancer cells from DNA/RNA using database mining and support vector regression through high resolution 4D HPCH experiment for sequential assignment of <sup>13</sup>C–labeled DNAs/RNAs in gum cancer cells*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–2, 2020.
- [498] **A. Heidari**, R. Gobato, “*New opportunities for tensor–free calculations of residual dipolar couplings for the study of dynamic nuclear polarization of nucleic acids with endogenously bound manganese in gum cancer cells*”, Dent Oral Maxillofac Res, Volume 6, Issue 6, Pages 1–2, 2020.
- [499] **A. Heidari**, “*Pros and cons controversy on synchrotronic biosensor using Os–Pd/HfC nanocomposite for tracking, monitoring, imaging, measuring, diagnosing and detecting cancer cells, tissues and tumors*”, Indones. J. Cancer Chemoprevent., Volume 12, Number 1, Pages 1–10, 2021.
- [500] R. Gobato, **A. Heidari**, L. F. Valverde, “*ACTG based on silicon getting news structures Asi, Csi, Tsi and Gsi*”, Arch Biomed Eng & Biotechnol. 5 (3): 1–2, 2021.
- [501] **A. Heidari**, R. Gobato, “*A biospectroscopic assignment technique for gum cancer cell membrane DNA/RNA reconstituted in magnetically aligned gum cancer cells for solid–state NMR analysis of gum cancer cell membrane DNA/RNA and nucleic acids aggregates by proton detected spectroscopy*”, Glob Imaging Insights, Volume 6 (1): 1–2, 2021.

- [502] **A. Heidari**, R. Gobato, “*Integrated analysis of the conformation of a DNA/RNA-linked spin label by combining NMR ensembles and molecular dynamics simulations provides more realistic models of DNA/RNA structures in gum cancer cells using optimization of NMR spectroscopy of encapsulated DNA/RNA dissolved in gum cancer cells*”, *Glob Imaging Insights*, Volume 6 (1): 1–3, 2021.

## **CONFERENCE PAPERS & PROCEEDINGS:**

- [1] **Alireza Heidari**, “*Study of band gap and determination of size of Ga Al As/Ga As quantum dots and the evaluation of resonant tunneling transmission coefficient from multilayer structures Ga Al Ad/Ga As from using Mathematica*”, 3<sup>rd</sup> Iranian National Congress on Chemistry, 30–31 May 2007, Varamin, Iran.
- [2] **Alireza Heidari** and Niloofar Heidari, “*The nano-science of C<sub>60</sub> molecule*”, National Conference of Modern Technology in the Environment, 04 March 2008, Tehran, Iran.
- [3] **Alireza Heidari** and Sahel Tofani, “*Kinetics and mechanism of NH<sub>3</sub> synthesis of a Fe (100) and K Fe (100) model catalysts*”, International Catalysis Conference (ICC2008), 28–30 April 2008, Tehran, Iran.
- [4] **Alireza Heidari**, Narges Shojafard, Niloofar Heidari, “*Calculation of rotational structure of CF<sub>4</sub> molecule by using the J. Moret-Bailly theory*”, 15<sup>th</sup> Iranian Seminar of Organic Chemistry, 27–29 August 2008, Kermanshah, Iran.
- [5] **Alireza Heidari**, Sahel Toufani, Narges Shojafard, Niloofar Heidari, “*Methane conversion into hydrocarbons by double electrical discharge*”, The 12<sup>th</sup> Iranian Chemical Engineering Congress, 20–23 October 2008, Tabriz, Iran.
- [6] **Alireza Heidari** and Narges Shojafard, “*The calculated neutron energy spectrum of -n source using the Monte-Carlo method*”, National Conference of Computing in Chemistry, 12–13 November 2008, Arak, Iran.
- [7] **Alireza Heidari** and Narges Shojafard, “*Fabrication and study of carbon nanotube by plasma enhanced chemical vapor deposition: PECVD*”, The 2<sup>nd</sup> International Student Conference of Biotechnology, 15–17 November 2008, Tehran, Iran.
- [8] **Alireza Heidari**, “*Numerical solution of the homonuclear diatomic nuclear Schrödinger equation using various empirical potential functions via the Numerov method*”, National Physics Conference, 10–11 December 2008, Shahreza, Iran.
- [9] Sahel Toufani, Sayyed Abolfazl SeyedSadjadi, Manzarbanoo Esnaashari, Narges Shojafard, Shakila Motamedi, Mona Farahani, Maryam Moghaddam and **Alireza Heidari**, “*Biological elimination of azo dyes from textile industry wastewater by using the Aspergillus niger fungus*”, 1<sup>st</sup> Scientific Student Conference of Sciences & Color Technology, 03–05 March 2009, Tehran, Iran.

- [10] **Alireza Heidari**, Sayyed Abolfazl SayyedSadjadi, Sahel Toufani, Manzarbanoo Esnaashari, Narges Shojafard, Niloofar Heidari, “*Sea surface temperature and Ekman transport in the Persian Gulf*”, 3<sup>rd</sup> Conference & Exhibition on Environmental Engineering, 17–21 October 2009, Tehran, Iran.
- [11] Sahel Toufani, Sayyed Abolfazl SayyedSadjadi, Shakila Motamedi, Mona Farahani and **Alireza Heidari**, “*Use of scrap tire as asphalt modifier*”, 3<sup>rd</sup> Conference & Exhibition on Environmental Engineering, 17–21 October 2009, Tehran, Iran.
- [12] Manouchehr Nikazar, Mohammad Ali Safarpour, Sahel Toufani, **Alireza Heidari**, “*The effects of surfactants on asphaltene precipitation onset in present nano–tetra phenyl porphyrin*”, 13<sup>th</sup> Iranian Physical Chemistry Conference, 12–15 April 2010, Shiraz, Iran.
- [13] Sayyed Abolfazl Seyed Sadjadi, Mohammad Hadi Riazi, Abbas Banaei, **Alireza Heidari**, “*Electrochemical synthesis of copper nanoparticles in surfactant solutions*”, 13<sup>th</sup> Iranian Physical Chemistry Conference, 12–15 April 2010, Shiraz, Iran.
- [14] P. Oseloka Ezepue, O. Anwar Bég, **Alireza Heidari**, “*Chaos, complexity, theory, global financial crisis and the prospects for financial engineering research in (pre–emerging) financial markets: A work–in–progress*”, 3<sup>rd</sup> Chaotic Modeling and Simulation International Conference, 01–04 June 2010, Chania Crete, Greece.
- [15] **Alireza Heidari**, O. Anwar Bég, P. Oseloka Ezepue, “*An analytical and numerical investigation into dissipative chaos in semiconductor superlattices*”, 3<sup>rd</sup> International Conference on Chaotic Simulation and Modeling, 01–04 June 2010, Chania Crete, Greece.
- [16] **Alireza Heidari**, “*HRR TEA–CO<sub>2</sub> laser with 220W average output power*”, National Congress on Laser in Medicine, 16–18 February 2011, Tehran, Iran.
- [17] **Alireza Heidari**, “*Investigation and study of electron trajectories in free electron lasers with realizable helical wiggler and ion channel guiding by using the Mathematica*”, National Congress on Laser in Medicine, 16–18 February 2011, Tehran, Iran.
- [18] **Alireza Heidari**, “*MIR–difference laser spectrometer for CO detection in combustions*”, National Congress on Laser in Medicine, 16–18 February 2011, Tehran, Iran.
- [19] **Alireza Heidari**, “*Design and construction of a tunable semiconductor laser*”, National Congress on Laser in Medicine, 16–18 February 2011, Tehran, Iran.
- [20] **Alireza Heidari**, “*FT–Raman spectroscopic studies of Nd: YAG laser–irradiated human dental enamel*”, National Congress on Laser in Medicine, 16–18 February 2011, Tehran, Iran.
- [21] Roozbeh Amiri, Foad Khademi Jahromi, **Alireza Heidari**, “*Study and investigation into the effects of AgNO<sub>3</sub> concentration on the formation of Ag nanoparticles in Sol–Gel derived Ag–SiO<sub>2</sub> thin films*”, 1<sup>st</sup> Conference on Nanotechnology Applications in the

Petroleum and Petrochemical Industries, 18–19 May 2011, Mahshahr, Iran.

- [22] Roozbeh Amiri, Foad Khademi Jahromi, **Alireza Heidari**, “*Investigation and study into the effects of  $Al_2O_3$  nanopowder addition on phase formation and superconducting properties of  $Bi_{1.6}Pb_{0.4}Sr_{1.9}Ca_{2.1}Cu_3O_{10-y}$* ”, 1<sup>st</sup> Conference on Nanotechnology Application in the Petroleum and Petrochemical Industries, 18–19 May 2011, Mahshahr, Iran.
- [23] Foad Khademi Jahromi, Roozbeh Amiri, **Alireza Heidari**, “*The study of carbon nanotubes doped with trivalent elements using back scattering Raman vibrational spectroscopy*”, 1<sup>st</sup> conference on the application of Nanotechnology applications in the Petroleum and Petrochemical Industries, 18–19 May 2011, Mahshahr, Iran.
- [24] Ahmet Yıldırım, Behrouz Raftari, **Alireza Heidari**, “*Non-perturbative solution of a nonlinear ODE arising in magnetohydrodynamic*”, International Conference on Applied Analysis and Algebra, 29<sup>th</sup> June–03<sup>rd</sup> July 2011, Istanbul, Turkey.
- [25] Serap Tutkun, Ahmet Yıldırım, Hüseyin Koçak, **Alireza Heidari**, “*The solution of Smoluchowski’s coagulation equation*”, International Conference on Applied Analysis and Algebra, 29<sup>th</sup> June–03<sup>rd</sup> July 2011, Istanbul, Turkey.
- [26] Zehra Pınar, Ahmet Yıldırım, Syed Tauseef Mohyud-Din, **Alireza Heidari**, “*Solitary and periodic solutions of Fitzhugh–Nagumo equation*”, International Conference on Applied Analysis and Algebra, 29<sup>th</sup> June–03<sup>rd</sup> July 2011, Istanbul, Turkey.
- [27] Dilek Sunay, Ahmet Yıldırım, Subir Das, K. Vishal, Praveen Kumar Gupta, **Alireza Heidari**, “*An efficient technique for solving time-fractional telegraph equations*”, International Conference on Applied Analysis and Algebra, 29<sup>th</sup> June–03<sup>rd</sup> July 2011, Istanbul, Turkey.
- [28] Moltem Turan, Ahmet Yıldırım, Davood Younesian, Hassan Askari, Zia Saadatnia, **Alireza Heidari**, “*Approximate periodic solutions for conservative nonlinear oscillator containing a fraction order elastic force*”, International Conference on Applied Analysis and Algebra, 29<sup>th</sup> June–03<sup>rd</sup> July 2011, Istanbul, Turkey.
- [29] Semiha Özgül, Ahmet Yıldırım, Zia Saadatnia, Hassan Askari, **Alireza Heidari**, “*A study of nonlinear oscillators with rational and irrational elastic terms*”, International Conference on Applied Analysis and Algebra, 29<sup>th</sup> June–03<sup>rd</sup> July 2011, Istanbul, Turkey.
- [30] Roozbeh Amiri, Foad Khademi Jahromi, **Alireza Heidari**, “*A study and investigation into the effects of temperature and atmosphere on the spinel phase formation of nano-manganese ferrite*”, 1<sup>st</sup> National Student Conference on Nanotechnology, 10–11 July 2011, Shahreza, Iran.
- [31] Roozbeh Amiri, Foad Khademi Jahromi, **Alireza Heidari**, “*A study and investigation into the effects of Ag nanoparticles as flux pinning centers in  $YBa_2Cu_3O_{7-\delta}$* ”, The 1<sup>st</sup> National Student Conference on Nanotechnology, 10–11 July 2011, Shahreza, Iran.



- [32] Foad Khademi Jahromi, Roozbeh Amiri, **Alireza Heidari**, “*A new approach into superconductivity within single wall carbon nanotubes*”, 1<sup>st</sup> National Student Conference on Nanotechnology, 10–11 July 2011, Shahreza, Iran.
- [33] Foad Khademi Jahromi, Roozbeh Amiri, **Alireza Heidari**, “*A study and investigation into the electrical conductance within a single wall carbon nanotube (SWCNT): Tight binding model*”, 1<sup>st</sup> National Student Conference on Nanotechnology, 10–11 July 2011, Shahreza, Iran.
- [34] **Alireza Heidari**, “*Investigation into 1, 4–ditiooctans analytical conformation through quantum mechanic calculations: A HF and DFT study*”, The 13<sup>th</sup> European Symposium on Organic Reactivity, 11–16 September 2011, Tartu, Estonia.
- [35] **Alireza Heidari**, “*Ab initio study of conformational properties and thermodynamic properties of 1,3–ditiooctan isomers*”, 13<sup>th</sup> European Symposium on Organic Reactivity, 11–16 September 2011, Tartu, Estonia.
- [36] **Alireza Heidari**, Participant, NanoThailand 2012, 09–11 April 2012, Khon Kaen, Thailand.
- [37] Mohammadali Ghorbani, **Alireza Heidari**, Niloofar Heidari, Ahmet Yıldırım, “*Studying forms of aza–cyclo alkadienes with middle size via the ab initio method*”, 14<sup>th</sup> International Conference on the Union of Pure and Applied Chemistry within Polymers and Organic Chemistry, 06–09 January 2012, Doha, Qatar.
- [38] Mohammadali Ghorbani, **Alireza Heidari**, Niloofar Heidari, Ahmet Yıldırım, “*Conformational, structural and aromatic features of (8,8) close–ended carbon nanotube 7/5/7 ring arrangement: A theoretical ab initio study*”, 14<sup>th</sup> International Conference on the Union of Pure and Applied Chemistry within Polymers and Organic Chemistry, 06–09 January 2012, Doha, Qatar.
- [39] Mohammadali Ghorbani, **Alireza Heidari**, Niloofar Heidari, Ahmet Yıldırım, “*Ab initio study into 5,6 dihydroxy naphthalen 1,4 dion and derivatives, NICS and the ring current effect*”, 14<sup>th</sup> International Conference on the Union of Pure and Applied Chemistry within Polymers and Organic Chemistry, 06–09 January 2012, Doha, Qatar.
- [40] **Alireza Heidari**, Niloofar Heidari, Mohammadali Ghorbani, Ahmet Yıldırım, “*An analytical and numerical approach into LZ complexity within chaotic dynamical systems and the quasiperiodic Fibonacci sequence*”, 4<sup>th</sup> International Interdisciplinary Chaos Symposium on Chaos and Complex Systems, 29 April–02 May 2012, Antalya, Turkey.
- [41] **Alireza Heidari**, Niloofar Heidari, Mohammadali Ghorbani, Ahmet Yıldırım, “*A new approach to recognizing chaotic states in stadium billiards by calculating gyration radius*”, 4<sup>th</sup> International Interdisciplinary Chaos Symposium on Chaos and Complex Systems, 29 April–02 May 2012, Antalya, Turkey.
- [42] **Alireza Heidari**, Pravindya Haputhanthri, Ekaterina Izgorodina, Bayden Wood, “*Analysis of conformations and vibrational frequencies of AMP, ADP, and ATP: A combined computational and experimental study*”, PhysChem 2013, 04–06 December 2013, Hobart, Tasmania, Australia.

- [43] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> Global Annual Oncologists Meeting, 11–13 July 2016, Cologne, Germany.
- [44] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Mucosal Immunology and Vaccine Development, 28–29 July 2016, Melbourne, Victoria, Australia.
- [45] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Expo on Pharmaceuticals and Biologic Drugs, 14–16 September 2016, San Antonio, Texas, USA.
- [46] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Gastrointestinal Cancer and Therapeutics, 31 October 2016–01 November 2016, Toronto, Ontario, Canada.
- [47] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Prediction and detection of DNA/RNA of human cancer cells using synchrotron radiations and various biospectroscopic techniques*”, BIT's 4<sup>th</sup> Annual Global Health Conference–2016 (AGHC–2016), 18–20 November 2016, Kaohsiung, Taiwan.
- [48] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Radiation Oncology & Anti–Cancer Therapy, 21–22 November 2016, Dubai, UAE.
- [49] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> World Cancer & Anti–Cancer Therapy Convention, 21–22 November 2016, Dubai, UAE.
- [50] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Cancer Care and Cure (Cancer Care–2016), 01–02 December 2016, Dubai, UAE.
- [51] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Health and Hospital Management, 08–09 December 2016, Dubai, UAE.
- [52] **Alireza Heidari**, Editor Board Member of Conference, 1<sup>st</sup> International Conference on Futuristic Trends in Engineering, Science, Pharmacy and Management, 23–24 December 2016, Gandhinagar, Gujarat, India.
- [53] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Commercialization of High Technologies*”, The Third Festival on the Commercialization of High Technologies, 26–27 January 2017, Kish Island, Hormozgan, Iran.
- [54] **Alireza Heidari**, Organizing Committee Member (OCM), 15<sup>th</sup> Annual Summit on Vaccines and Immunization, 20–21 February 2017, Berlin, Germany.
- [55] **Alireza Heidari**, Advisory Board & Faculty, 2<sup>nd</sup> Global Cancer Summit, 22–24 March 2017, Kuala Lumpur, Malaysia.
- [56] **Alireza Heidari**, Conference Committee and Reviewers Member, International Conference on Teacher Preparation in the Muslim World (ICTEM), 24–25 March 2017, Dubai, UAE.
- [57] **Alireza Heidari**, Conference Committee and Reviewers Member, International Conference on Educational Studies (ICES), 24–25 March 2017, Dubai, UAE.
- [58] **Alireza Heidari**, Conference Committee and Reviewers Member, International Conference on Language Teaching and Learning in the 21<sup>st</sup> Century (ICLTL), 24–25 March 2017, Dubai, UAE.
- [59] **Alireza Heidari**, Conference Committee and Reviewers Member, International Conference on Interdisciplinary Social Sciences (ICISS), 24–25 March 2017, Dubai,

UAE.

- [60] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress & Expo on Biotechnology and Bioengineering, 27–29 March 2017, Dubai, UAE.
- [61] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress & Expo on Pharmaceuticals & Drug Delivery Systems, 27–29 March 2017, Kuala Lumpur, Malaysia.
- [62] **Alireza Heidari**, Organizing Committee Member (OCM), Global Conference and Expo on Applied Science, Management and Technology, 06–08 April 2017, Dubai, UAE.
- [63] **Alireza Heidari**, Organizing Committee Member (OCM), 16<sup>th</sup> Global Annual Oncologists Meeting, 24–25 April 2017, Dubai, UAE.
- [64] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> Annual Congress and Expo on Biofuels and Bioenergy, 27–28 April 2017, Dubai, UAE.
- [65] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Transdermal drug delivery system: Quality by design (QBD) approach*”, World Congress on Pharmaceutical & Chemical Sciences, 03–05 May 2017, Madrid, Spain.
- [66] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Role of synchrotron radiations in prediction and detection of DNA/RNA of human cancer cells*”, BIT’s 10<sup>th</sup> Annual World Cancer Congress–2017 (WCC–2017), 19–21 May 2017, Barcelona, Spain.
- [67] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Biotherapeutics, 22–23 May 2017, Mexico City, Mexico.
- [68] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> International Conference on Proteomics and Bioinformatics (Proteomics 2017), 22–24 May 2017, Osaka, Japan.
- [69] **Alireza Heidari**, Organizing Committee Member (OCM), 6<sup>th</sup> World Congress on Medicinal Chemistry, 07–08 June 2017, Milan, Italy.
- [70] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Metabolic and Bariatric Surgery, 12–13 June 2017, Rome, Italy.
- [71] **Alireza Heidari**, Honorable Advisory Board Member (HABM), International Summit on Pharma & Clinical Trials (Innovative Pharma 2017), 12–13 June 2017, Sydney, New South Wales, Australia.
- [72] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Pancreatic Cancer & Liver Diseases (Pancreatic Cancer 2017), 12–13 June 2017, London, UK.
- [73] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> International Conference on Blood Cancer & Treatment, 26–27 June 2017, London, UK.
- [74] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> World Congress on Bioavailability & Bioequivalence: BA/BE Studies Summit (BABE 2017), 26–27 June 2017, San Diego, California, USA.
- [75] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Oncology Nursing, 03–04 July 2017, Barcelona, Spain.
- [76] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on

Molecular Genetics and Gene Therapy, 03–05 July 2017, Bangkok, Thailand.

- [77] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> Asia Pacific Global Summit on Healthcare, 03–05 July 2017, Kuala Lumpur, Malaysia.
- [78] **Alireza Heidari**, Scientific Advisory Board Member (SABM), 2017 PCS 3<sup>rd</sup> Annual World Pathology Conference (WPC–2017), 08–09 July 2017, Rome, Italy.
- [79] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Study of Excimer and Exciplex Lasers Treatment for Human Cancer Cells and Tissues*”, 2017 PCS 3<sup>rd</sup> Annual World Pathology Conference (WPC–2017), 08–09 July 2017, Rome, Italy.
- [80] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International Conference on Sustainable Bioplastics, 20–21 July 2017, Munich, Germany.
- [81] **Alireza Heidari**, Organizing Committee Member (OCM), 6<sup>th</sup> International Conference on Environmental Chemistry and Engineering, 24–25 July, Rome, Italy.
- [82] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Nuclear Medicine & Radiation Therapy, 27–28 July 2017, Rome, Italy.
- [83] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> International Conference on Clinical and Surgical Ophthalmology, 07–09 August 2017, Beijing, China.
- [84] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> Asian Biologics and Biosimilars Congress (Asian Biosimilars 2017), 10–12 August 2017, Beijing, China.
- [85] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Expo on Holistic Medicine and Nursing (Holistic Medicine–2017), 14–15 August 2017, Toronto, Ontario, Canada.
- [86] **Alireza Heidari**, Organizing Committee Member (OCM), Annual Biotechnology Congress 2017, 17–18 August 2017, Toronto, Ontario, Canada.
- [87] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> Global Nanotechnology Congress and Expo, 21–23 August 2017, Dallas, Texas, USA.
- [88] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> International Conference and Expo on Molecular & Cancer Biomarkers (World Biomarkers 2017), 24–25 August 2017, Birmingham, UK.
- [89] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> International Conference and Exhibition on Pharmaceutical Formulations (Formulation 2017), 28–29 August 2017, Brussels, Belgium.
- [90] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> International Conference on Radiation Oncology & Anti–Cancer Therapy (Anti–Cancer Therapy 2017), 28–29 August 2017, Brussels, Belgium.
- [91] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Biopharmaceutics and Biologic Drugs (Biopharma 2017), 31 August 2017–01 September 2017, Philadelphia, Pennsylvania, USA.
- [92] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> International Conference on Advanced Materials & Processing (Advanced Materials 2017), 7–8 September 2017, Edinburgh, Scotland.
- [93] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Biotherapeutics and Bioanalytical Techniques (Biotherapeutics 2017), 11–13 September 2017, Dallas, Texas, USA.

- [94] **Alireza Heidari**, Organizing Committee Member (OCM), International Congress on Gastroenterology & Hepatology (ICGH–2017), 11–13 September 2017, Miami, Florida, USA.
- [95] **Alireza Heidari**, Scientific Committee Member (SCM), International Conference on Women’s Health, Gynecology & Obstetrics, 18–19 September 2017, Amsterdam, Netherlands.
- [96] **Alireza Heidari**, Organizing Committee Member (OCM), Global Bioanalysis Summit 2017, 18–19 September 2017, San Diego, California, USA.
- [97] **Alireza Heidari**, Organizing Committee Member (OCM), Global Bioanalysis Summit (Bioanalysis Summit 2017), 18–20 September 2017, San Francisco, California, USA.
- [98] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Advanced Clinical Research and Clinical Trials, 20–21 September 2017, Dublin, Ireland.
- [99] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> Pharmacovigilance Congress, 20–21 September 2017, Charlotte, North Carolina, USA.
- [100] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on Medical Sociology and Community Health (Medical Sociology 2017), 25–26 September 2017, Atlanta, Georgia, USA.
- [101] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Mycology, Mushrooms & Mycotechnology (Mycology 2017), 25–26 September 2017, Chicago, Illinois, USA.
- [102] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International summit on Medical Biology & Bioengineering (Bioengineering 2017), 27–28 September 2017, Chicago, Illinois, USA.
- [103] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> International Conference and Exhibition on Biosensors and Bioelectronics, 27–29 September 2017, Chicago, Illinois, USA.
- [104] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> Annual Pharmaceutical Chemical Analysis Congress (Pharma Analysis 2017), 02–03 October 2017, Vienna, Austria.
- [105] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> International Conference on Predictive, Preventive and Personalized Medicine & Molecular Diagnostics, 05–06 October 2017, Chicago, Illinois, USA.
- [106] **Alireza Heidari**, Review Board Member (RBM), International Biotechnology and Pharmaceutical Industry Forum (Biopharma–2017), 09–10 October 2017, New Delhi, India.
- [107] **Alireza Heidari**, Organizing Committee Member (OCM), International Congress on Gastroenterology & Hepatology (Gastroenterology–2017), 09–11 October 2017, Chicago, Illinois, USA.
- [108] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> World Conference on Applied Science, Engineering and Technology (WCASET–17), 11–12 October 2017, Bangkok, Thailand.
- [109] **Alireza Heidari**, Organizing Committee Member (OCM), Global Experts Meeting

On Pharmaceutics & Drug Delivery Systems (Pharmaceutics Meeting 2017), 12–13 October 2017, Osaka, Japan.

- [110] **Alireza Heidari**, Organizing Committee Member (OCM), International Meeting on Biopolymers and Polymer Chemistry (Biopolymers Meeting 2017), 12–13 October 2017, Osaka, Japan.
- [111] **Alireza Heidari**, Program Technical Committee Member (PTCM), 2<sup>nd</sup> International Conference on Conscientious & Unimpeachable Technologies 2017 (ICCU-2017), 14 October 2017, Haryana, India.
- [112] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> World Congress on Natural Products Chemistry and Research (Natural Products Congress 2017), 16–17 October 2017, Budapest, Hungary.
- [113] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Pharmaceutical and Biomedical Engineering (Pharma Engineering 2017), 16–17 October 2017, Osaka, Japan.
- [114] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Nanoscience and Nano Technology (Asia Pacific Nano Congress 2017), 16–17 October 2017, Dubai, UAE.
- [115] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Biomedical Engineering Conference (Biomedical 2017), 16–17 October 2017, Osaka, Japan.
- [116] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Past and Present Research Systems of Green Chemistry (Green Chemistry 2017), 16–18 October 2017, Atlanta, Georgia, USA.
- [117] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International Conference on Nanotechnology and Materials Science (Nanotek-2017), 16–18 October 2017, Dubai, UAE.
- [118] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Gastrointestinal Cancer and Therapeutics (GI Cancer 2017), 16–18 October 2017, Baltimore, Maryland, USA.
- [119] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> World Drug Delivery Summit (Drug Delivery 2017), 16–18 October 2017, Baltimore, Maryland, USA.
- [120] **Alireza Heidari**, Organizing Committee Member (OCM), 15<sup>th</sup> World Medical Nanotechnology Congress & Expo, 18–19 October 2017, Osaka, Japan.
- [121] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> International Conference on Biomarkers & Clinical Research, 18–20 October 2017 (Biomarkers 2017), Baltimore, Maryland, USA.
- [122] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> Annual Congress on Drug Design & Drug Formulation (Drug Formulation 2017), 19–20 October 2017, Seoul, South Korea.
- [123] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference and Exhibition on Theoretical and Condensed Matter Physics, 19–21 October 2017, New York, USA.
- [124] **Alireza Heidari**, Scientific Committee Member (SCM), Global Conference on

Catalysis and Reaction Engineering (GCR 2017), 19–21 October 2017, Las Vegas, Nevada, USA.

- [125] **Alireza Heidari**, Advisory Board Member (ABM), Frontiers of Applied Microbiology, 23–24 October 2017, International Online Conference, UK.
- [126] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> World Congress on Stem Cell and Biobanking (Stem Cell Convention 2017), 23–24 October 2017, Osaka, Japan.
- [127] **Alireza Heidari**, Organizing Committee Member (OCM), Global Proteomics Conference (Proteomics Meeting 2017), 25–26 October 2017, Dubai, UAE.
- [128] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Gastroenterology and Endoscopy, 30–31 October 2017, Toronto, Ontario, Canada.
- [129] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Transcriptomics (Transcriptomics 2017), 30 October 2017–01 November 2017, Bangkok, Thailand.
- [130] **Alireza Heidari**, Organizing Committee Member (OCM), 6<sup>th</sup> World Congress on Breast Cancer, 01–02 November 2017, Toronto, Ontario, Canada.
- [131] **Alireza Heidari**, Advisory Board Member (ABM), New Trends in Nano Science & Nanotechnology, 01–02 November 2017, International Online Conference, UK.
- [132] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Congress on Drug Discovery, Designing and Development (Drug Discovery 2017), 02–03 November 2017, Chicago, Illinois, USA.
- [133] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Healthcare & Hospital Management, 06–07 November 2017, Vienna, Austria.
- [134] **Alireza Heidari**, Organizing Committee Member (OCM), International Healthcare and Patient Safety Conference, 06–07 November 2017, Dubai, UAE.
- [135] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Obesity and Weight Loss (Obesity–2017), 06–08 November 2017, Barcelona, Spain.
- [136] **Alireza Heidari**, Recent Trends in Novel Drug Delivery System, Advisory Board Member (ABM), 08–09 November 2017, International Online Conference, UK.
- [137] **Alireza Heidari**, Organizing Committee Member (OCM), Global Summit and Expo on Proteomics (Proteomics–2017), 09–11 November 2017, Valencia, Spain.
- [138] **Alireza Heidari**, Scientific Advisory Board Member (SABM), BIT’s 1<sup>st</sup> World Congress of Biomedical Engineering 2017 (WCBME–2017), 09–11 November 2017, Xi'an, China.
- [139] **Alireza Heidari**, Invited, Key and Renowned Speaker, “Biomedical Applications of Synchrotron Radiation in Human Cancer Cells Treatment”, BIT’s 1<sup>st</sup> World Congress of Biomedical Engineering 2017 (WCBME–2017), 09–11 November 2017, Xi'an, China.
- [140] **Alireza Heidari**, Organizing Committee Member (OCM), 19<sup>th</sup> International Conference on Nanotechnology and Expo (Nanotech 2017), 13–14 November 2017, Atlanta, Georgia, USA.
- [141] **Alireza Heidari**, Organizing Committee Member (OCM), Annual Meeting on Pharmacology, 16–17 November 2017, Dubai, UAE.

- [142] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference and Exhibition on Nanotechnology & Materials Science, 20–22 November 2017, Dubai, UAE.
- [143] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Biotechnology Congress, 04–05 December 2017, Sao Paulo, Brazil.
- [144] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Bioequivalence & Bioavailability (BEBA–2017), 04–06 December 2017, San Francisco, California, USA.
- [145] **Alireza Heidari**, Organizing Committee Member (OCM), Global Meeting on Materials Science & Nanotechnology (Materials Meeting 2017), 11–12 December 2017, Dubai, UAE.
- [146] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Pharmaceuticals and Novel Drug Delivery Systems (Pharma 2017), 11–13 December 2017, Dubai, UAE.
- [147] **Alireza Heidari**, Scientific Advisory Committee Member (SACM), 3<sup>rd</sup> World Congress on Pharmaceuticals and Drug Discovery (WCPDD 2017), 15–16 December 2017, Dubai, UAE.
- [148] **Alireza Heidari**, International Advisory Board Member (IABM), International Online Medical Conference (IOMC 2017), 2017, India.
- [149] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference and Exhibition on Nanotechnology (Nano USA 2018), 07–09 February 2018, San Diego, California, USA.
- [150] **Alireza Heidari**, Technical Committee Member (TCM), 4<sup>th</sup> International Conference on Information Management and Industrial Engineering (ICII 2018), 10–13 February 2018, Cape Town, South Africa.
- [151] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> World Congress on Pharmaceutical Sciences and Innovations in Pharma Industry (Pharmaceutical Sciences 2018), 26–27 February 2018, London, UK.
- [152] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> Global Summit and Expo on Dental & Oral Diseases (GSEDOD–2018), 26–27 February 2018, Abu Dhabi, UAE.
- [153] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Metabolomics (ICOM 2018), 26–28 February 2018, Bangkok, Thailand.
- [154] **Alireza Heidari**, Organizing Committee Member (OCM), 13<sup>th</sup> International Conference on Laboratory Medicine & Pathology (Laboratory Medicine 2018), 05–07 March 2018, Berlin, Germany.
- [155] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Condensed Matter and Materials Physics (Materials Physics 2018), 12–13 March 2018, Barcelona, Spain.
- [156] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> Edition of International Conference on Mass Spectrometry (Mass Spectrometry 2018), 12–13 March 2018, London, UK.
- [157] **Alireza Heidari**, Organizing Committee Member (OCM), 23<sup>rd</sup> International Conference on Nanomaterials and Nanotechnology (Nanomaterials 2018), 15–16 March 2018, London, UK.



2018, London, UK.

- [158] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> World Congress & Expo on Pharmaceutics & Drug Delivery Systems (Pharmaceutics–2018), 19–20 March 2018, London, UK.
- [159] **Alireza Heidari**, Organizing Committee Member (OCM), 29<sup>th</sup> International Conference on Vaccines and Immunization (Vaccines Summit 2018), 19–20 March 2018, London, UK.
- [160] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> Edition of International Conference on Proteomics, 22–23 March 2018, London, UK.
- [161] **Alireza Heidari**, Organizing Committee Member (OCM), 16<sup>th</sup> International Conference on Emerging Materials and Nanotechnology (Emerging Materials Congress 2018), 22–23 March 2018, London, UK.
- [162] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> Edition of International Conference on Internal Medicine & Patient Care (Internal Medicine 2018), 26–27 March 2018, Vienna, Austria.
- [163] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Nuclear Medicine & Radiation Therapy (Nuclear Medicine 2018), 26–27 March 2018, Edinburgh, Scotland.
- [164] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference & Exhibition on Biologics and Biosimilars (Biosimilars 2018), 26–27 March 2018, Orlando, Florida, USA.
- [165] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> Edition of International Conference on Analytical Chemistry, 26–28 March 2018, Vienna, Austria.
- [166] **Alireza Heidari**, Organizing Committee Member (OCM), 6<sup>th</sup> Edition of International Conference on Pain Management, 26–28 March 2018, Vienna, Austria.
- [167] **Alireza Heidari**, Scientific Advisory Board Member (SABM), BIT's 6<sup>th</sup> Annual Conference of AnalytiX 2018 (AnalytiX–2018), 26–28 March 2018, Miami, Florida, USA.
- [168] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on Embryology and In Vitro Fertilization (Embryology 2018), 30–31 March 2018, Orlando, Florida, USA.
- [169] **Alireza Heidari**, Scientific Committee Member (SCM), Global Pharma Meet & Expo 2018 (Pharma Meet 2018), 02–04 April 2018, Dubai, UAE.
- [170] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Pharmacy and Pharmaceutical Sciences (Pharmacy Conference 2018), 09–11 April 2018, Dubai, UAE.
- [171] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Materials Science and Graphene Technology 2018 (Materials Science 2018), 09–11 April 2018, Dubai, UAE.
- [172] **Alireza Heidari**, Technical Committee Member (TCM), 2018 International Conference on Nanomaterials, Materials and Manufacturing Engineering (ICNMM 2018), 13–15 April 2018, Chengdu, China.
- [173] **Alireza Heidari**, Organizing Committee Member (OCM), 6<sup>th</sup> Edition of International Conference on Pharmacognosy and Medicinal Plants (Pharmacognosy

- 2018), 16–17 April 2018, Amsterdam, Netherlands.
- [174] **Alireza Heidari**, Organizing Committee Member (OCM), EuroSciCon Conference on Stem Cell, 16–17 April 2018, Amsterdam, Netherlands.
  - [175] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Expo on Graphene & Semiconductors (Graphene 2018), 16–17 April 2018, Las Vegas, Nevada, USA.
  - [176] **Alireza Heidari**, Keynote Speaker, Global Summit on Nursing and Medical Devices Expo (Nursing–2018), 16–18 April 2018, Dubai, UAE.
  - [177] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nanoscience & Nanoengineering (NSNE 2018), 18–19 April 2018, Las Vegas, Nevada, USA.
  - [178] **Alireza Heidari**, Organizing Committee Member (OCM), 22<sup>nd</sup> International Conference on Neurology & Neurophysiology (Neuro'18), 23–25 April 2018, Rome, Italy.
  - [179] **Alireza Heidari**, Organizing Committee Member (OCM), International Translational and Regenerative Medicine Conference (ITMC–2018), 25–27 April 2018, Rome, Italy.
  - [180] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress and Expo on Biotechnology and Bioengineering, 07–09 May 2018, Dubai, UAE.
  - [181] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> Edition of International Conference on Tissue Engineering and Regenerative Medicine (Tissue Science 2018), 10–11 May 2018, Frankfurt, Germany.
  - [182] **Alireza Heidari**, Organizing Committee Member (OCM), 22<sup>nd</sup> Edition of International Conference on Immunology and Evolution of Infectious Diseases (Immunology Research 2018), 10–11 May 2018, Frankfurt, Germany.
  - [183] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> World Congress on Advanced Clinical Trials and Clinical Research (Clinical Trials Congress 2018), 14–15 May 2018, Singapore City, Singapore.
  - [184] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Neurology and Mental Disorders–2018 (Neurology Conference–2018), 14–16 May 2018, Rome, Italy.
  - [185] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> Global Experts Meeting on Chemistry, 17–19 May 2018, Singapore City, Singapore.
  - [186] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> International Conference on Genomics and Molecular Biology, 21–23 May 2018, Barcelona, Spain.
  - [187] **Alireza Heidari**, Organizing Committee Member (OCM), Global Summit on Biopharma and Biotherapeutics, 23–24 May 2018, Montreal, Quebec, Canada.
  - [188] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Global Summit on Nutritional Science & Food Chemistry (Nutritionalscience–2018), 24–25 May 2018, Valencia, Spain.
  - [189] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Women Health and Breast Cancer (Women Health–2018), 24–25 May 2018, Valencia, Spain.
  - [190] **Alireza Heidari**, Organizing Committee Member (OCM), 22<sup>nd</sup> Global Annual

- Oncologists Meeting (Oncologists–2018), 24–25 May 2018, Osaka, Japan.
- [191] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> Edition of International Conference on Case Reports, 28–29 May 2018, London, UK.
  - [192] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> Edition of International Conference on Health & Primary Care (Healthcare 2018), 28–29 May 2018, London, UK.
  - [193] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Cell and Structural Biology (Cell Biologists Congress 2018), 28–29 May 2018, Osaka, Japan.
  - [194] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> Edition of international conference on Polymer Science and Technology (Polymer Congress 2018), 04–05 June 2018, London, UK.
  - [195] **Alireza Heidari**, Scientific Committee Member (SCM), 2<sup>nd</sup> Global Conference on Pharmaceutics and Drug Delivery Systems (PDDS–2018), 04–06 June 2018, Rome, Italy.
  - [196] **Alireza Heidari**, Organizing Committee Member (OCM), Nano World: Current and Future Perspectives in Nanotechnology (Nano World 2018), 06–07 June 2018, Baltimore, Maryland, USA.
  - [197] **Alireza Heidari**, Organizing Committee Member (OCM), World Summit on Toxicology (Toxicology–2018), 11–12 June 2018, Rome, Italy.
  - [198] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on Surgery & Anesthesia, 11–12 June 2018, Rome, Italy.
  - [199] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Systems and Synthetic Biology (Synthetic Biology 2018), 11–12 June 2018, Rome, Italy.
  - [200] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Edition of International Conference on Chemistry and Chemical Engineering (Chemical Engineering 2018), 14–15 June 2018, Barcelona, Spain.
  - [201] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Global Summit & Expo on Laser Optics & Photonics (Optics–2018), 14–16 June 2018, Rome, Italy.
  - [202] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress and Expo on Traditional and Alternative Medicine (Traditional Medicine–2018), 14–16 June 2018, Rome, Italy.
  - [203] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Social Sciences & Interdisciplinary Studies (Social Sciences 2018), 18–19 June 2018, Rome, Italy.
  - [204] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> International Conference on Leukemia and Hematologic Oncology (Hematologic Oncology 2018), 20–21 June 2018, Paris, France.
  - [205] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> International Conference and Exhibition on Pharmacovigilance & Drug Safety (Pharmacovigilance 2018), 21–22 June 2018, London, UK.
  - [206] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems

(Pharmaceutics 2018), 21–23 June 2018, London, UK.

- [207] **Alireza Heidari**, Organizing Committee Member (OCM), 21<sup>st</sup> International Conference on Advanced Nanoscience and Nanotechnology (Nanoscience 2018), 21–23 June 2018, London, UK.
- [208] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Chronic Diseases (Chronic Diseases 2018), 25–26 June 2018, Berlin, Germany.
- [209] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Gastroenterology (Gastro Congress 2018), 25–26 June 2018, Dublin, Ireland.
- [210] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> International Conference on Abdominal Imaging and Endoscopy (Endoscopy–2018), 28–29 June 2018, Amsterdam, Netherlands.
- [211] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Structural Biology (Structural Biology 2018), 28–29 June 2018, Bangkok, Thailand.
- [212] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Influenza and Zoonotic Diseases (Influenza 2018), 2–3 July 2018, Vienna, Austria.
- [213] **Alireza Heidari**, Organizing Committee Member (OCM), 22<sup>nd</sup> World Congress on Biotechnology, 10–11 July 2018, Bangkok, Thailand.
- [214] **Alireza Heidari**, Organizing Committee Member (OCM), 18<sup>th</sup> International Conference on HPLC & Related Chromatographic Techniques (HPLC 2018), 11–12 July 2018, Toronto, Ontario, Canada.
- [215] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Environmental Toxicology and Health, 11–12 July 2018, Sydney, New South Wales, Australia.
- [216] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference and Exhibition on Marine Drugs & Natural Products (Natural Products 2018), 11–13 July 2018, Rome, Italy.
- [217] **Alireza Heidari**, Organizing Committee Member (OCM), Global Cardiology Summit, 12–13 July 2018, Bangkok, Thailand.
- [218] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> International Conference on Tissue Science and Regenerative Medicine (Tissue Science Congress 2018), 13–14 July 2018, Sydney, New South Wales, Australia.
- [219] **Alireza Heidari**, Scientific Advisory Board Member (SABM), 2018 PCS 4<sup>th</sup> Annual World Pathology Conference (WPC–2018), 14–15 July 2018, Budapest, Hungary.
- [220] **Alireza Heidari**, Organizing Committee Member (OCM), International Research Summit on Biomaterials and Nanotechnology (Biomat 2018), 16–17 July 2018, Atlanta, Georgia, USA.
- [221] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> Edition of International Conference on Preventive Medicine & Public Health (Preventive Medicine 2018), 16–17 July 2018, London, UK.

- [222] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Sleep Disorders and Medicine, 16–17 July 2018, London, UK.
- [223] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Synthetic Biology (Synthetic Biology 2018), 16–17 July 2018, Paris, France.
- [224] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> Annual Conference on Preventive Oncology (Preventive Oncology 2018), 18–19 July 2018, Atlanta, Georgia, USA.
- [225] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Mass Spectrometry and Chromatography (Mass Spectra 2018), 19–20 July 2018, Prague, Czech Republic.
- [226] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference & Expo on Green Chemistry and Engineering (ICEGCE–2018), 23–24 July 2018, Barcelona, Spain.
- [227] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Agricultural & Food Chemistry (Food Chemistry 2018), 23–24 July 2018, Rome Italy.
- [228] **Alireza Heidari**, Organizing Committee Member (OCM), World Conference on Analytical & Bioanalytical Chemistry (WCABC–2018), 23–24 July 2018, Barcelona, Spain.
- [229] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> Asia Pacific Nanotechnology Congress (Nanotek Congress 2018), 23–24 July 2018, Sydney, New South Wales, Australia.
- [230] **Alireza Heidari**, Keynote Speaker, 2<sup>nd</sup> World Congress on Pharmaceutical and Chemical Sciences, 23–25 July 2018, Milan, Italy.
- [231] **Alireza Heidari**, Organizing Committee Member (OCM), Global Conference on Magnetism and Magnetic Materials (GCMMM–2018), 23–25 July 2018, Osaka, Japan.
- [232] **Alireza Heidari**, Scientific Committee Member (SCM), 2<sup>nd</sup> International Conference on Advances in Biotechnology (Biotechnology Research 2018), 23–25 July 2018, Kuala Lumpur, Malaysia.
- [233] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> World Cancer Congress, 23–25 July 2018, Moscow, Russia.
- [234] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> International Conference on Medicinal Chemistry and Pharmacology, 25–26 July 2018, Vancouver, British Columbia, Canada.
- [235] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International Conference on Medicinal Practices: Herbal, Holistic and Traditional (Medicinal Practices 2018), 25–26 July 2018, Kuala Lumpur, Malaysia.
- [236] **Alireza Heidari**, Organizing Committee Member (OCM), 35<sup>th</sup> European Dental Congress (Dental 2018), 26–28 July 2018, Moscow, Russia.
- [237] **Alireza Heidari**, Organizing Committee Member (OCM), Global Conference on Tissue Engineering and Regenerative Medicine (Regenerative Medicine 2018), 30–31 July 2018, Barcelona, Spain.
- [238] **Alireza Heidari**, Organizing Committee Member (OCM), International

Conference on Cancer Diagnosis & Treatment (Cancer Treatment 2018), 02–03 August 2018, Oslo, Norway.

- [239] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> Global Biomarkers Summit, 02–03 August 2018, Oslo, Norway.
- [240] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference and Exhibition on Material Science and Nanotechnology (Materials Congress 2018), 02–03 August 2018, Barcelona, Spain.
- [241] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> Annual Congress on Gastroenterology & Hepatology (Gastroenterology Summit 2018), 06–07 August 2018, Hyatt Regency Osaka, Japan.
- [242] **Alireza Heidari**, Organizing Committee Member (OCM), 28<sup>th</sup> Euro Congress on Cancer Science & Therapy (Cancer Science 2018), 09–10 August 2018, Madrid, Spain.
- [243] **Alireza Heidari**, Organizing Committee Member (OCM), Annual Summit Oncology and Cancer (Oncology 2018), 09–10 August 2018, Vienna, Austria.
- [244] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on Nano Science and Nano Technology (Asia Pacific Nano Congress 2018), 10–11 August 2018, Osaka, Japan.
- [245] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> International Conference on Advanced Energy Materials and Research (Advanced Energy Materials 2018), 13–14 August 2018, Dublin, Ireland.
- [246] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Molecular Biology and Stem Cells (Molecular Biology Congress), 13–15 August 2018, Copenhagen, Denmark.
- [247] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Cell and Gene Therapy (Gene Therapy 2018), 13–15 August 2018, Paris, France.
- [248] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> Edition of International Conference on Nanopharmaceutics and Advanced Drug Delivery (Nano Drug Delivery 2018), 16–17 August 2018, Dublin, Ireland.
- [249] **Alireza Heidari**, Organizing Committee Member (OCM), Global Meeting on Oncology and Radiology, 16–17 August 2018, Tokyo, Japan.
- [250] **Alireza Heidari**, Organizing Committee Member (OCM), 25<sup>th</sup> Nano Congress for Future Advancements (Nano Congress 2018), 16–18 August 2018, Dublin, Ireland.
- [251] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Industrial Biotechnology and Bioprocessing (Industrial Biotechnology 2018), 16–18 August 2018, Copenhagen, Denmark.
- [252] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Cell & Stem Cell Research (Cell 2018), 17–18 August 2018, Singapore City, Singapore.
- [253] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nano Medicine and Nanoparticles (Nano Medicine 2018), 18–19 August 2018, Las Vegas, Nevada, USA.
- [254] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Congress and Exhibition on Pharmacy (Pharmacy–2018), 20–21 August 2018, Paris,

France.

- [255] **Alireza Heidari**, Organizing Committee Member (OCM), International Congress and Expo on Flu Science & Infectious Diseases (ICEFSID–2018), 20–21 August 2018, Paris, France.
- [256] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Medicinal Chemistry & Drug Design (Medicinal Chemistry–2018), 20–21 August 2018, Paris, France.
- [257] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Advanced Pharmacy and Industrial Research (Advanced Pharmacy 2018), 20–22 August 2018, Beijing, China.
- [258] **Alireza Heidari**, Organizing Committee Member (OCM), 16<sup>th</sup> World Medical Nanotechnology Congress (Medical Nanotechnology 2018), 20–22 August 2018, Tokyo, Japan.
- [259] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Materials Science and Materials Chemistry (Materials Chemistry 2018), 20–22 August 2018, Paris, France.
- [260] **Alireza Heidari**, Organizing Committee Member (OCM), 26<sup>th</sup> International Conference on Diabetes and Endocrinology (Diabetes Congress 2018), 20–22 August 2018, Paris, France.
- [261] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress & Expo on Healthcare IT, 21–22 August 2018, Paris, France.
- [262] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Advanced Structural and Molecular Biology 2018 (Advanced Structural Biology 2018), 22–23 August 2018, Rome, Italy.
- [263] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Addiction Therapy & Clinical Reports (Addiction Therapy–2018), 23–24 August 2018, Paris, France.
- [264] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Gerontology & Palliative Care (Gerontology–2018), 23–24 August 2018, Paris, France.
- [265] **Alireza Heidari**, Organizing Committee Member (OCM), Global Congress on Cancer Science and Therapy (Cancer Congress 2018), 23–24 August 2018, Madrid, Spain.
- [266] **Alireza Heidari**, Organizing Committee Member (OCM), 17<sup>th</sup> Asia Pacific Ophthalmologists Annual Meeting, 24–25 August 2018, Tokyo, Japan.
- [267] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> World Congress on Biosensors and Bioelectronics (Biosensors Congress 2018), 24–25 August 2018, Tokyo, Japan.
- [268] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Renewable Energy and Resources, 27–28 August 2018, Boston, Massachusetts, USA.
- [269] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Energy Materials and Fuel Cell Research (Energy Materials 2018), 27–28 August 2018, Boston, Massachusetts, USA.
- [270] **Alireza Heidari**, Organizing Committee Member (OCM), International

Conference on Planetary Science and Particle Physics (Planetary Science 2018), 27–28 August 2018, Boston, Massachusetts, USA.

- [271] **Alireza Heidari**, Organizing Committee Member (OCM)/International Committee, Global Congress on Advancements in Catalysis and Chemical Engineering Process (Catalysis 2018), 27–28 August 2018, Madrid, Spain.
- [272] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> International Congress on Surgery, 27–28 August 2018, Tokyo, Japan.
- [273] **Alireza Heidari**, Organizing Committee Member (OCM), Annual Congress and Expo on Vaccines & Immunology (Vaccines Research 2018), 27–29 August 2018, Amsterdam, Netherlands.
- [274] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Materials Physics and Materials Science (Materials Physics Congress 2018), 27–29 August 2018, London, UK.
- [275] **Alireza Heidari**, Organizing Committee Member (OCM), 18<sup>th</sup> International Conference on Analytical Chemistry, 29–30 August 2018, Toronto, Ontario, Canada.
- [276] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on In Vitro Diagnostics & In Vitro Fertilization (In Vitro Diagnostics 2018), 03–04 September 2018, London, UK.
- [277] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> Global Summit and Expo on Biomass and Bioenergy (Biomass 2018), 04–05 September 2018, Zürich, Switzerland.
- [278] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> International Conference and Exhibition on Pain Research and Management (Pain Management 2018), 04–05 September 2018, Zürich, Switzerland.
- [279] **Alireza Heidari**, Scientific Committee Member (SCM), International Conference on Science and Technology (ICONST 2018), 05–09 September 2018, Prizren, Kosovo.
- [280] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference and Expo on Drug Discovery, Designing & Development (Drug Discovery 2018), 06–07 September 2018, London, UK.
- [281] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Polymerization Catalysis and Flexible Polymer (Polymer Catalysis 2018), 06–07 September 2018, Dubai, UAE.
- [282] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> International Conference on Gastro Education (Gastro Education 2018), 06–07 September 2018, London, UK.
- [283] **Alireza Heidari**, Organizing Committee Member (OCM), 28<sup>th</sup> World Conference on Nursing Diagnosis & Care Plans (Nursing Diagnosis 2018), 10–11 September 2018, Prague, Czech Republic.
- [284] **Alireza Heidari**, Organizing Committee Member (OCM), 30<sup>th</sup> Annual Congress on Nanotechnology and Nanomaterials (Nanotech 2018), 10–11 September 2018, Stockholm, Sweden.
- [285] **Alireza Heidari**, Organizing Committee Member (OCM), 22<sup>nd</sup> Global Biotechnology Congress (Global Biotechnology 2018), 10–11 September 2018, Stockholm, Sweden.



- [286] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on STD, AIDS and Communicable Disease (stdaids2018), 10–12 September 2018, Paris, France.
- [287] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress and Expo on Cell & Stem Cell Research (Stem Cell 2018), 13–15 September 2018, Paris, France.
- [288] **Alireza Heidari**, Organizing Committee Member (OCM), 19<sup>th</sup> World Congress on Analytical & Bioanalytical Techniques (Analytika 2018), 17–18 September 2018, Singapore City, Singapore.
- [289] **Alireza Heidari**, Organizing Committee Member (OCM), 18<sup>th</sup> Global Summit on Environmental Toxicology and Pharmacology (EnviTox Summit 2018), 17–18 September 2018, Singapore City, Singapore.
- [290] **Alireza Heidari**, Organizing Committee Member (OCM), 6<sup>th</sup> World Congress on Public Health, Epidemiology & Nutrition (Global Public Health 2018), 17–18 September 2018, Hong Kong.
- [291] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> World Congress on Radiology and Oncology, 17–18 September 2018, Chicago, Illinois, USA.
- [292] **Alireza Heidari**, Organizing Committee Member (OCM), International Epigenetics and Epitranscriptomics Conference (Epitranscriptomics 2018), 17–18 September 2018, Dubai, UAE.
- [293] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Mass Spectrometry and Chromatography (Mass Spectrometry–2018), 17–19 September 2018, Paris, France.
- [294] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Alzheimer’s Disease & Dementia (Dementia 2018), 17–19 September 2018, Paris, France.
- [295] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> Global Summit on Heart Diseases (Heart Diseases Summit 2018), 19–20 September 2018, Singapore City, Singapore.
- [296] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> Edition of International Conference on Green Energy, Green Engineering and Technology (Green Technologies 2018), 20–21 September 2018, Berlin, Germany.
- [297] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Gynecology & Obstetrics (WCGO–2018), 20–21 September 2018, Toronto, Ontario, Canada.
- [298] **Alireza Heidari**, Organizing Committee Member (OCM), Annual Biomarkers Congress (Biomarkers Congress 2018), 20–21 September 2018, Osaka, Japan.
- [299] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Biomedicine & Pharmacotherapy (Biomedicine 2018), 20–22 September 2018, Frankfurt, Germany.
- [300] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Nanotechnology (Nanotek Summit 2018), 21–22 September 2018, Dubai, UAE.
- [301] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>th</sup> International

Conference and Expo on Natural Medicine & Products (Natural Medicine 2018), 24–25 September 2018, Montreal, Quebec, Canada.

- [302] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nano Science & Technology (Nano Science 2018), 24–25 September 2018, Dubai, UAE.
- [303] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> World Congress on Food Chemistry & Food Microbiology (Food Chemistry Microbiology Congress 2018), 26–27 September 2018, Dubai, UAE.
- [304] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nutrition, Health and Aging (Nutrition–2018), 26–28 September 2018, Frankfurt, Germany.
- [305] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nuclear Medicine & Radiation Therapy, 01–02 October 2018, Stockholm, Sweden.
- [306] **Alireza Heidari**, Organizing Committee Member (OCM), 26<sup>th</sup> International Conference on Advanced Nanotechnology, 04–05 October 2018, Moscow, Russia.
- [307] **Alireza Heidari**, Organizing Committee Member (OCM), 17<sup>th</sup> Edition of International Conference and Exhibition on Pharmaceuticals & Novel Drug Delivery Systems (Pharmaceutics 2018), 04–06 October 2018, Moscow, Russia.
- [308] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> Edition of World Congress on Cancer Survivorship, Prevention and Management (Cancer Survivorship 2018), 08–10 October 2018, Moscow, Russia.
- [309] **Alireza Heidari**, Organizing Committee Member (OCM), EuroSciCon Congress on Biochemistry & Molecular Biology (Biochemistry 2018), 11–12 October 2018, Amsterdam, Netherlands.
- [310] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Environmental Health & Preventive Medicine (Environmental Health 2018), 15–16 October 2018, Warsaw, Poland.
- [311] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Cell and Gene Therapy (Gene Therapy 2018), 15–16 October 2018, Vienna, Austria.
- [312] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Diabetes and Cholesterol Metabolism (Metabolic Diseases 2018), 15–17 October 2018, Dubai, UAE.
- [313] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Human Placenta, Fetal Nutrition and Metabolism (Placenta 2018), 17–18 October 2018, Las Vegas, Nevada, USA.
- [314] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Advanced Biomaterials and Tissue Engineering (Advanced Biomaterials 2018), 17–18 October 2018, Rome, Italy.
- [315] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Advanced Structural and Molecular Biology 2018 (Advanced Structural Biology 2018), 17–18 October 2018, Rome, Italy.
- [316] **Alireza Heidari**, Organizing Committee Member (OCM), 19<sup>th</sup> International

- Conference on Cellular and Molecular Medicine, 17–18 October 2018, Tokyo, Japan.
- [317] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Drug Discovery and Advanced Drug Delivery Systems & Technologies (Drug Discovery 2018), 18–19 October 2018, Warsaw, Poland.
  - [318] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> Global Biomarkers Summit (Global Biomarker Summit 2018), 18–19 October 2018, Amsterdam, Netherlands.
  - [319] **Alireza Heidari**, Keynote Speaker, 3<sup>rd</sup> International Conference & Expo on Obesity and Diet Management (Obesity and Diet Management–2018), 18–20 October 2018, Amsterdam, Netherlands.
  - [320] **Alireza Heidari**, Organizing Committee Member (OCM), 13<sup>th</sup> World Conference on Applied Science, Engineering and Technology (13<sup>th</sup> WCASET–18), 19–20 October 2018, Bangkok, Thailand.
  - [321] **Alireza Heidari**, Organizing Committee Member (OCM), International Healthcare Simulation Conference (Healthcare Simulation 2018), 22–23 October 2018, London, UK.
  - [322] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Nursing & Healthcare (Nursing & Healthcare 2018), 22–24 October 2018, Barcelona, Spain.
  - [323] **Alireza Heidari**, Organizing Committee Member (OCM), 27<sup>th</sup> European Cardiology Conference (Eurocardiology 2018), 22–24 October 2018, Rome, Italy.
  - [324] **Alireza Heidari**, Co–Chair, BIT’s 8th Annual World Congress of Nano Science & Technology (Nano S&T–2018), 24–26 October 2018, Potsdam, Germany.
  - [325] **Alireza Heidari**, “*Multi–walled nanotubes roles in eliminating human cancer cells and tissues*”, BIT’s 8th Annual World Congress of Nano Science & Technology (Nano S&T–2018), 24–26 October 2018, Potsdam, Germany.
  - [326] **Alireza Heidari**, Organizing Committee Member (OCM), 31<sup>st</sup> European Congress on Nanotechnology & Materials Engineering (Nano Mat 2018), 25–26 October 2018, Budapest, Hungary.
  - [327] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on Biotechnology (Biotechnology Congress 2018), 25–27 October 2018, Frankfurt, Germany.
  - [328] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Biomedicine & Pharmacotherapy (Biomedicine 2018), 26–27 October 2018, Osaka, Japan.
  - [329] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Gastrointestinal Cancer and Therapeutics (GI Cancer 2018), 29–30 October 2018, San Francisco, California, USA.
  - [330] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Elimination of human cancer cells and tissues using nanotechnology*”, International Conference on Gastrointestinal Cancer and Therapeutics (GI Cancer 2018), 29–30 October 2018, San Francisco, California, USA.
  - [331] **Alireza Heidari**, Organizing Committee Member (OCM), 26<sup>th</sup> Annual Congress on Cancer Science and Targeted Therapies, 29–30 October 2018, San Francisco,

California, USA.

- [332] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Materials Research and Development, 29–30 October 2018, Prague, Czech Republic.
- [333] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Magnetism & Magnetic Materials (Magnetism 2018), 01–02 November 2018, Paris, France.
- [334] **Alireza Heidari**, Scientific Committee Member (SCM), International Conference on Pharmaceutical Sciences and Drug Development (IPSDD 2018), 05–06 November 2018, Prague, Czech Republic.
- [335] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference and Expo on Proteomics and Molecular Medicine (Proteomics 2018), 05–07 November 2018, Chicago, Illinois, USA.
- [336] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Exhibition on Pharmaceuticals and Advanced Drug Delivery Systems (Pharmaceutical Sciences 2018), 08–10 November 2018, Chicago, Illinois, USA.
- [337] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Petroleum Processing and Industrial Chemistry (Petroleum Processing 2018), 09–10 November 2018, Birmingham, Alabama, USA.
- [338] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Bio–organic and Medicinal Chemistry (Bio–organic and Medicinal 2018), 12–13 November 2018, Dubai, UAE.
- [339] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> World Congress and Expo on RECYCLING, 12–14 November 2018, Berlin, Germany.
- [340] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress and Expo on Clinical and Medical Sciences, 12–14 November 2018, Rome, Italy.
- [341] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress and Expo on Virology and Bacteriology (Virology 2018), 12–14 November 2018, Rome, Italy.
- [342] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Gastroenterology and Digestive Disorders (Gastroenterologists 2018), 15–17 November 2018, Paris, France.
- [343] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Global Summit on Gastroenterology & Hepatology (Gastroenterology–2018), 19–20 November 2018, Dallas, Texas, USA.
- [344] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Global Summit and Expo on Proteomics (Proteomics–2018), 19–20 November 2018, Dallas, Texas, USA.
- [345] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Molecular Biology and Stem Cells (Molecular Biology 2018), 19–20 November 2018, Paris, France.
- [346] **Alireza Heidari**, Organizing Committee Member (OCM), 26<sup>th</sup> International Conference on Diabetes and Endocrinology (Diabetes Congress 2018), 22–24 November 2018, Paris, France.
- [347] **Alireza Heidari**, Organizing Committee Member (OCM), Nanotechnology and

Nanomaterials Conference 2018 (Nanotechnology 2018), 23–24 November 2018, Las Vegas, Nevada, USA.

- [348] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International Conference on Theoretical, Materials and Condensed Matter Physics (Condensed Matter Physics 2018), 27–29 November 2018, Los Angeles, California, USA.
- [349] **Alireza Heidari**, Organizing Committee Member (OCM), 18<sup>th</sup> International Conference on Chemistry & Drug Designing (ICCDD 2018), 03–04 December 2018, Mexico City, Mexico.
- [350] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> Annual Congress on Nursing & Healthcare, 03–04 December 2018, Amsterdam, Netherlands.
- [351] **Alireza Heidari**, Organizing Committee Member (OCM), European Congress on Protein & Proteomics, 03–04 December 2018, Amsterdam, Netherlands.
- [352] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Toxicology (Toxicology 2018), 03–04 December 2018, Dubai, UAE.
- [353] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nanotechnology (Nanotech 2018), 03–04 December 2018, Edinburgh, Scotland.
- [354] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Proteomics and Genomics (Proteomics–2018), 03–05 December 2018, Valencia, Spain.
- [355] **Alireza Heidari**, Organizing Committee Member (OCM), 28<sup>th</sup> International Conference on Chemistry & Drug Discovery 2018 (ICCDD 2018), 05–06 December 2018, Vancouver, British Columbia, Canada.
- [356] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> International Conference on Alzheimer's Disease and Dementia (Alzheimer's 2018), 06–07 December 2018, Dubai, UAE.
- [357] **Alireza Heidari**, Organizing Committee Member (OCM), International Congress on Vaccines & Immunology, 06–07 December 2018, Amsterdam, Netherlands.
- [358] **Alireza Heidari**, Program Committee and Technical Committee Chair (TCC), 2018 International Joint Conference on Metallurgical and Materials Engineering (JCMME 2018), 10–12 December 2018, Wellington, New Zealand.
- [359] **Alireza Heidari**, Technical Committee Chair (TCC) and Program Committee Member (PCM), 2018 International Joint Conference on Metallurgical and Materials Engineering (JCMME 2018), 21–23 December 2018, Cairo, Egypt.
- [360] **Alireza Heidari**, Technical Committee Member (TCM), 2019 IEEE 10<sup>th</sup> International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2019), 15–17 February 2019, Cape Town, South Africa.
- [361] **Alireza Heidari**, Technical Committee Member (TCM), 2019 5<sup>th</sup> International Conference on Information Management and Industrial Engineering (ICII 2019), 15–17 February 2019, Cape Town, South Africa.
- [362] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Microbiology & Applied Microbiology, 21–22 February 2019, Paris, France.
- [363] **Alireza Heidari**, Organizing Committee Member (OCM), Conference on Oncology and Stem Cells, 25–26 February 2018, Rome, Italy.

- [364] **Alireza Heidari**, Organizing Committee Member (OCM), Conference on Oncology and Cancer Therapy, 25–26 February 2019, Rome, Italy.
- [365] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>th</sup> International Conference on Advanced Dentistry and Dental Science (Advanced Dentistry 2019), 25–26 February 2019, Toronto, Ontario, Canada.
- [366] **Alireza Heidari**, Organizing Committee Member (OCM), CPD Accredited International Conference on Clinical Trials & Pharmacovigilance (Clinical Trials 2019), 28 February–01 March, 2019, Paris, France.
- [367] **Alireza Heidari**, Organizing Committee Member (OCM), 28<sup>th</sup> World Congress on Neurology and Therapeutics (Neurology 2019), 28 February–01 March 2019, Berlin, Germany.
- [368] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Pharmaceutical Chemistry (Pharmaceutical Chemistry 2019), 04–06 March 2019, London, UK.
- [369] **Alireza Heidari**, Organizing Committee Member (OCM), 22<sup>nd</sup> International Conference on New Horizons in Cardiology & Cardiologists Education (Cardiology Insights 2019), 07–08 March 2019, Berlin, Germany.
- [370] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> World Congress on Immunology (Immunology World 2019), 11–12 March 2019, London, UK.
- [371] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Tissue Engineering and Regenerative Medicine (Tissue Engineering), 14–15 March 2019, London, UK.
- [372] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> International Conference on Vascular Dementia and Dementia (Vascular Dementia 2019), 14–16 March 2019, London, UK.
- [373] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> Global Summit on Heart Diseases (Heart Diseases Summit 2019), 15–16 March 2019, Singapore City, Singapore.
- [374] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> Global Summit on Oncology and Cancer (Oncology 2019), 18–19 March 2019, London, UK.
- [375] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International Conference on Nanotechnology for Renewable Materials (Nano Materials 2019), 18–19 March 2019, Singapore City, Singapore.
- [376] **Alireza Heidari**, Organizing Committee Member (OCM), 15<sup>th</sup> Global Biomarkers Summit (Biomarkers Summit–2019), 20–21 March 2019, Paris, France.
- [377] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Toxicology and Risk Assessment (Toxicology–2019), 20–22 March 2019, Frankfurt, Germany.
- [378] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Pharma Conference and Expo (Pharma–2019), 20–22 March 2019, Frankfurt, Germany.
- [379] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> World Congress and Expo on Pharmaceutics and Drug Delivery Systems (Pharmaceutics–2019), 25–26 March 2019, Milan, Italy.
- [380] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> World Congress &

Expo on Biotechnology and Bioengineering (Biotechnology–2019), 25–26 March 2019, Dubai, UAE.

- [381] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> World Congress & Expo on Nanotechnology & Materials Science (Nanotechnology Congress), 25–26 March 2019, Dubai, UAE.
- [382] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Biochemistry and Enzymology (World Biochem 2019), 25–26 March 2019, Amsterdam, Netherlands.
- [383] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on Drug Safety and Pharmacovigilance (Drug Safety Congress), 27–28 March 2019, Dubai, UAE.
- [384] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> Edition of International Conference on Clinical & Medical Case Reports (Clinical Case Reports 2019), 27–28 March 2019, Barcelona, Spain.
- [385] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Global Meeting on Clinical Oncology and Radiology (Clinical Oncology Conference 2019), 27–28 March 2019, Hong Kong.
- [386] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Mechanical, Metallurgy and Materials Science (Metallurgy–2019), 28–29 March 2019, Milan, Italy.
- [387] **Alireza Heidari**, Organizing Committee Member (OCM), Global Conference on Carbon Nanotubes and Graphene Technologies (Graphene Technology–2019), 28–29 March 2019, Milan, Italy.
- [388] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> International Conference on Smart Materials and Sustainable Technologies (Smart Materials 2019), 08–09 April 2019, Toronto, Ontario, Canada.
- [389] **Alireza Heidari**, Catalysts Committee Member (CCM), International Conference on Applied Catalysis & Chemical Engineering (ACC–2019), 08–10 April 2019, Dubai, UAE.
- [390] **Alireza Heidari**, Scientific Advisory Board Member (SABM) and Chairman of the Session “*Breaking Research on Bioanalysis*”, BIT’s 7<sup>th</sup> Annual Conference of AnalytiX–2019 (AnalytiX–2019), 12–14 April 2019, Singapore City, Singapore.
- [391] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Analytical chemistry and human cancer prevention, diagnosis and treatment: Perspective and prospect*”, 7<sup>th</sup> Annual Conference of AnalytiX–019 (AnalytiX–2019), 12–14 April 2019, Singapore City, Singapore.
- [392] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Translational and Regenerative Medicine Conference (ITMC–2019), 15–17 April 2019, Valencia, Spain.
- [393] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Advanced Metabolomics and Systems Biology (Metabolomics 2019), 16–17 April 2019, Las Vegas, Nevada, USA.
- [394] **Alireza Heidari**, Organizing Committee Member (OCM), Global Conference on Infectious Diseases (Infectious Diseases 2019), 22–24 April 2019, Dubai, UAE.

- [395] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> International Conference on Earth Science & Space Technology, 13–14 May 2019, Athens, Greece.
- [396] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> World Congress on Chemistry & Medicinal Chemistry (Chemistry 2019), 13–14 May 2019, Prague, Czech Republic.
- [397] **Alireza Heidari**, Organizing Committee Member (OCM), Global Conference on Catalysis Chemical Engineering & Technology, 13–14 May 2019, Rome, Italy.
- [398] **Alireza Heidari**, Chairman of the Track “*Caner Drug Mechanisms and Resistance*”, BIT's 12<sup>th</sup> Annual World Cancer Congress–2019 (WCC–2019), 15–17 May 2019, Osaka, Japan.
- [399] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Anti–caner nano drugs delivery mechanisms and resistance in human cancer cells, tissues and tumors under synchrotron and synchrocyclotron radiations with passage of time*”, BIT's 12<sup>th</sup> Annual World Cancer Congress–2019 (WCC–2019), 15–17 May 2019, Osaka, Japan.
- [400] **Alireza Heidari**, Technical Committee Member (TCM), 2<sup>nd</sup> International Conference on Nanomaterials, Materials and Manufacturing Engineering (ICNMM 2019), 17–19 May 2019, Bangkok, Thailand.
- [401] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Gastroenterology and Endoscopy (Gastro 2019), 20–21 May 2019, Dubai, UAE.
- [402] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on CPD accredited Medical Microbiology 2019 (Medical Microbiology 2019), 20–21 May 2019, Vienna, Austria.
- [403] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Reproductive Medicine & Biology (Reproductive Biology–2019 (ICRMB19)), 22–23 May 2019, Las Vegas, Nevada, USA.
- [404] **Alireza Heidari**, Organizing Committee Member (OCM), 15<sup>th</sup> Edition of International Conference on Healthcare (Healthcare 2019), 27–29 May 2019, Barcelona, Spain.
- [405] **Alireza Heidari**, Program Committee Member (PCM), 2<sup>nd</sup> World Summit on Toxicology & Applied Pharmacology (Toxicology–2019), 03–04 June 2019, Berlin, Germany.
- [406] **Alireza Heidari**, Scientific Committee Board (SCB), World Pharma Summit R&D, Market and B2B (World Pharma Summit 2019), 03–04 June 2019, London, UK.
- [407] **Alireza Heidari**, Organizing Committee Member (OCM), World Conference on Chemistry (WCC–2019), 03–05 June 2019, Dubai, UAE.
- [408] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Clinical Research & Biomarkers (Biomarkers–2019), 03–05 June 2019, London, UK.
- [409] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Molecular Biology and Stem Cells (Molecular Biology 2019), 06–07 June 2019, London, UK.
- [410] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Central Nervous System and Therapeutics (CNS 2019), 10–11 June 2019,



Edinburgh, Scotland.

- [411] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> European Clinical Microbiology and Immunology Congress (Clinical Microbiology 2019), 12–13 June 2019, Edinburgh, Scotland.
- [412] **Alireza Heidari**, Conference Committee Member (CCM), International Conference on Oncology and Hematology (SciTech Oncology 2019), 17–18 June 2019, Dubai, UAE.
- [413] **Alireza Heidari**, Conference Committee Member (CCM), Global Meet on Pharmaceutical Sciences, Drug Formulation & Delivery (Pharma Meet 2019), 19–20 June 2019, Venice, Italy.
- [414] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Biomaterials, Cellular and Tissue Engineering (Biomaterials Congress 2019), 19–20 June 2019, Dublin, Ireland.
- [415] **Alireza Heidari**, Conference Committee Member (CCM), 3<sup>rd</sup> World Congress and Expo on Nanotechnology and Materials Science (Nanotechnology & Materials Science 2019), 01–02 July 2019, Dubai, UAE.
- [416] **Alireza Heidari**, Conference Committee Member (CCM), International Conference on Tissue Science & Regenerative Medicine, 01–03 July 2019, Rome, Italy.
- [417] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> Global Pharmaceutical Conference and Expo (i-Pharma UK 2019), 03–05 July 2019, London, UK.
- [418] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Exhibition on Pharmaceutical Sciences & Research (Pharma Congress), 04–05 July 2019, Dubai, UAE.
- [419] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Global Heart Congress (Heart Congress 2019), 08–10 July 2019, Paris, France.
- [420] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Bacteriology and Emerging Diseases, 08–10 July 2019, Paris, France.
- [421] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Green & Sustainable Chemistry (Green Chemistry 2019), 15–16 July 2019, Zürich, Switzerland.
- [422] **Alireza Heidari**, Experts Advisory Board Member (EABM), World-Wide Congregation on Physics (Physics Summit 2019), 17–18 July 2019, Zürich, Switzerland.
- [423] **Alireza Heidari**, Scientific Committee Member (SCM), World Congress on Obesity, 22–23 July 2019, Kuala Lumpur, Malaysia.
- [424] **Alireza Heidari**, Organizing Committee Member (OCM) and also Invited, Key and Renowned Speaker, International Conference on Alzheimer's & Dementia (Dementia-2019), 22–24 July 2019, London, UK.
- [425] **Alireza Heidari**, International Scientific Advisory Board Member (ISABM), International Congress on Advanced Materials Sciences and Engineering 2019 (ASME-2019), 22–24 July 2019, Osaka, Japan.
- [426] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> European Pharma and Pharmaceutical Sciences Congress (European Pharma 2019), 25–26 July 2019,

Rome, Italy.

- [427] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> International Conference on Smart Materials and Structures (Smart Materials Congress 2019), 01–02 August 2019, Dublin, Ireland.
- [428] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Pharma Conference and Expo (Pharma–2019), 01–02 August 2019, Valencia, Spain.
- [429] **Alireza Heidari**, Organizing Committee Member (OCM), 24<sup>th</sup> World Congress on Pharmacology, 19–20 August 2019, Vienna, Austria.
- [430] **Alireza Heidari**, Organizing Committee Member (OCM), Global Conference on Cancer & Therapeutic Approaches (Cancer Congress–2019/GCTA–2019), 19–21 August 2019, Dubai, UAE.
- [431] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Nutrition, Health and Aging (Nutrition–2019), 28–29 August 2019, Valencia, Spain.
- [432] **Alireza Heidari**, Organizing Committee Member (OCM), 13<sup>th</sup> Edition of International Conference on Nanomedicine and Advanced Drug Delivery (Nano Drug Delivery 2019), 29–30 August 2019, London, UK.
- [433] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International Conference on Condensed Matter and Materials Physics (Euro Condensed Matter Physics 2019), 02–03 September 2019, Berlin, Germany.
- [434] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Exhibition on Pharmaceutical Sciences & Research (Pharma Congress), 04–05 September 2019, Dubai, UAE.
- [435] **Alireza Heidari**, Organizing Committee Member (OCM), 31<sup>st</sup> International Conference on Cancer Research and Therapy (Cancer Research–2019), 09–10 September 2019, Zürich, Switzerland.
- [436] **Alireza Heidari**, Organizing Committee Member (OCM), International Congress on Surgery and Anaesthesia (ICSA 2019), 09–11 September 2019, Dubai, UAE.
- [437] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nanomedicine and Nanotechnology (Nanotechnology 2019), 12–13 September 2019, Edinburgh, Scotland.
- [438] **Alireza Heidari**, International Advisory Committee Member (IACM), 2<sup>nd</sup> Indo Oncology Summit–19, 13–14 September 2019, Bhubaneswar, India.
- [439] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> World Congress on Clinical Research & Biomarkers (WCCRB–2019), 16–17 September 2019, Miami, Florida, USA.
- [440] **Alireza Heidari**, Scientific Committee Member (SCM), World Congress on Physics (Physics Congress 2019), 16–17 September 2019, Dubai, UAE.
- [441] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> International Conference on Organic Chemistry 2019 (Organic Chemistry 2019), 20–21 September 2019, Singapore City, Singapore.
- [442] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Pharmaceutics and Drug Delivery Research (Pharmaceutics–2019), 23–24 September 2019, Barcelona, Spain.

- [443] **Alireza Heidari**, Organizing Committee Member (OCM), 31<sup>st</sup> European Congress on Nanotechnology and Materials Engineering, 03–04 October 2019, Paris, France.
- [444] **Alireza Heidari**, Organizing Committee Member (OCM), 23<sup>rd</sup> International Conference on Food Technology & Processing (Food Technology 2019), 07–08 October 2019, Dublin, Ireland.
- [445] **Alireza Heidari**, Organizing Committee Member (OCM), Worldwide Forum on Mental Health & Psychiatry (Mental Health Congress), 07–08 October 2019, Rome, Italy.
- [446] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Public Health Care and Management (Public Health 2019), 07–09 October 2019, Rome, Italy.
- [447] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Cancer and Oncotherapy (Cancer–2019), 14–16 October 2019, London, UK.
- [448] **Alireza Heidari**, Organizing Committee Member (OCM), 6<sup>th</sup> International Conference on Diabetes Treatment & Research (Diabetes Research 2019), 16–17 October 2019, Vancouver, British Columbia, Canada.
- [449] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> World Congress and Expo Traditional Medicine & Herbals (WCETMH–2019), 21–22 October 2019, Bangkok, Thailand.
- [450] **Alireza Heidari**, Organizing Committee Member (OCM), Global Meeting on Biomarkers, Clinical Research and Therapeutics, 21–22 October 2019, Milan, Italy.
- [451] **Alireza Heidari**, Organizing Committee Member (OCM), 21<sup>st</sup> World Congress on Advances in Gastroenterology and Hepatology (Asian Gastro 2019), 21–22 October 2019, Melbourne, Victoria, Australia.
- [452] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Vaccines and Immunization (Vaccines 2019), 21–23 October 2019, Milan, Italy.
- [453] **Alireza Heidari**, Organizing Committee Member (OCM), PediatrIcs & Neonatology Summit (Ped Summit 2019), 21–23 October 2019, Tokyo, Japan.
- [454] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Obesity and Weight Loss (Obesity–2019), 23–24 October 2019, Rome, Italy.
- [455] **Alireza Heidari**, Organizing Committee Member (OCM), Annual Summit on Metabolomics (Metabolomics Summit 2019), 23–24 October 2019, Amsterdam, Netherlands.
- [456] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Organic and Inorganic Chemistry (Organic Chemistry Congress 2019), 24–25 October 2019, Zürich, Switzerland.
- [457] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> Global Ophthalmologists Annual Meeting (Ophthalmologists 2019), 28–29 October 2019, Amsterdam, Netherlands.
- [458] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> International Conference on Immunology & Immunogenetics (Molecular Immunology 2019), 30–31 October 2019, London, UK.

- [459] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Cell Science and Molecular Biology, 04–06 November 2019, Vienna, Austria.
- [460] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Molecular Biology and Genetic Engineering (Genetic Engineering Summit 2019), 07–08 November 2019, Melbourne, Victoria, Australia.
- [461] **Alireza Heidari**, Organizing Committee Member (OCM), Global Experts Meet on Advanced Technologies in Diabetes Research and Therapy (Diabetes Meet 2019), 11–12 November 2019, San Francisco, California, USA.
- [462] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Bioavailability and Bioequivalence (BABE 2019), 11–12 November 2019, London, UK.
- [463] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Bacteriology and Environmental Microbiology, 11–13 November 2019, Berlin, Germany.
- [464] **Alireza Heidari**, Organizing Committee Member (OCM), 23<sup>rd</sup> World Congress on Biotechnology (Biotechnology–2019), 14–15 November 2019, Amsterdam, Netherlands.
- [465] **Alireza Heidari**, Organizing Committee Member (OCM), International Summit on Physics & Astronomy (Physics–2k19), 14–15 November 2019, Osaka, Japan.
- [466] **Alireza Heidari**, Advisory Board Member (ABM), BIT’17<sup>th</sup> Annual Congress of International Drug Discovery Science and Technology–2019 (IDDST–2019), 15–17 November 2019, Nanjing, China.
- [467] **Alireza Heidari**, International Advisory Committee Member (IACM), 2<sup>nd</sup> Indo Oncology Summit–19, 15–17 November 2019, Bhubaneswar, Odisha, India.
- [468] **Alireza Heidari**, Scientific Committee Member (SCM), 2<sup>nd</sup> International Conference on Food, Agriculture, Horticulture and Aquaculture 2019, 18–19 November 2019, Bangkok, Thailand.
- [469] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> Global Conference on Mass Spectrometry (Mass Spectra 2019), 18–19 November 2019, Osaka, Japan.
- [470] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Community Nursing and Public Health, 18–19 November 2019, Johannesburg, South Africa.
- [471] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> Global Summit on Gastroenterology & Hepatology (Gastroenterology–2019), 18–19 November 2019, Amsterdam, Netherlands.
- [472] **Alireza Heidari**, Organizing Committee Member (OCM), European Conference on Pharmacovigilance & Drug Safety (Euro Pharmacovigilance 2019), 18–19 November 2019, Prague, Czech Republic.
- [473] **Alireza Heidari**, Scientific Committee Member (SCM), 2<sup>nd</sup> International Conference on Food, Agriculture, Horticulture and Aquaculture 2019, 18–20 November 2019, Bangkok, Thailand.
- [474] **Alireza Heidari**, Organizing Committee Member (OCM), Advances & Scientific Merits in Food and Agriculture, 18–20 November 2019, Dubai, UAE.
- [475] **Alireza Heidari**, Organizing Committee Member (OCM), Advances and Scientific Merits in Vaccines, Pharmacology & Clinical Trials, 18–20 November 2019, Paris, France.

- [476] **Alireza Heidari**, Organizing Committee Member (OCM), Global Summit on Nanotechnology, Electronics & Computer Science (GNCE–2k19), 21–22 November 2019, Kuala Lumpur, Malaysia.
- [477] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Pharmaceutics, Pharmacognosy and Medicinal Plants, 25–26 November 2019, Rome, Italy.
- [478] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Alzheimer’s Disease & Associated Disorders (Alzheimers–2019), 28–29 November 2019, Kuala Lumpur, Malaysia.
- [479] **Alireza Heidari**, Scientific Committee Member (SCM), Scholars International Conference on Pharmaceutics and Drug Delivery Research (Pharmaceutics 2019), 02–03 December 2019, Madrid, Spain.
- [480] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference Green Energy and Recycling (Energy 2019), 02–03 December 2019, Berlin, Germany.
- [481] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> Global Nanotechnology Congress and Expo (Nanotechnology–2019), 02–04 December 2019, Bali, Indonesia.
- [482] **Alireza Heidari**, Experts Advisory Board Member (EABM), Renewable Materials 2019, 04–05 December 2019, New York, USA.
- [483] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> International Conference on Cosmetology and Dermatology (Cosmetology 2019), 04–05 December 2019, Abu Dhabi, UAE.
- [484] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> International Conference on Central Nervous System (CNS 2019), 04–05 December 2019, Dubai, UAE.
- [485] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> Global Virology Congress & Expo (Virology–2019), 06–07 December 2019, Kuala Lumpur, Malaysia.
- [486] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> International Conference on Cancer and Cancer Therapy (Cancer 2019), 09–10 December 2019, Dubai, UAE.
- [487] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> International Conference on Vaccines and Immunology (Vaccines Congress 2019), 09–10 December 2019, Abu Dhabi, UAE.
- [488] **Alireza Heidari**, Technical Committee Chair (TCC) and Program Committee Member (PCM), 2<sup>nd</sup> International Joint Conference on Metallurgical and Materials Engineering (JCMME 2019), 10–12 December 2019, Auckland, New Zealand.
- [489] **Alireza Heidari**, Technical Committee Member (TCM), 2020 International Conference on Frontiers of Nanomaterials and Nanotechnology (NanoMT 2020), 10–12 January 2020, Athens, Greece.
- [490] **Alireza Heidari**, International Scientific Committee Member (ISCM), 3<sup>rd</sup> International Joint Conference on Materials Science and Mechanical Engineering (CMSME 2020), 10–12 January 2020, Athens, Greece.
- [491] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> Edition of

International Conference on Materials Technology and Manufacturing Innovations (Materials Manufacturing 2020), 20–21 January 2020, Barcelona, Spain.

- [492] **Alireza Heidari**, Technical Committee Member (TCM), 6<sup>th</sup> International Conference on Information Management and Industrial Engineering (ICII 2020), 20–22 January 2020, Cape Town, South Africa.
- [493] **Alireza Heidari**, Technical Committee Member (TCM), 2020 IEEE 11<sup>th</sup> International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2020), 20–22 January 2020, Cape Town, South Africa.
- [494] **Alireza Heidari**, Organizing Committee Member (OCM), 31<sup>st</sup> European Congress on Nanotechnology and Materials Engineering (Nanomat 2020), 12–13 February 2020, Paris, France.
- [495] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Catalysis, Chemical Engineering and Technology (Catalysis 2020), 19–20 February 2020, Phuket, Thailand.
- [496] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> World Congress on Pharmaceutical Sciences and Innovations in Pharma Industry (Pharma Industry 2020), 24–25 February 2020, Dubai, UAE.
- [497] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Medical and Health Sciences, 24–25 February 2020, Rome, Italy.
- [498] **Alireza Heidari**, Organizing Committee Member (OCM), 22<sup>nd</sup> International Conference on Nanotechnology and Nano–Medicine (Nanotechnology 2020), 24–25 February 2020, London, UK.
- [499] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Primary Healthcare and Pain Management (Primary Healthcare 2020), 27–28 February 2020, Paris, France.
- [500] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Applied Science and Engineering (ICASE–2020), 20–21 April 2020, Dubai, UAE.
- [501] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Conference on Neurology and Brain Disorders (Neuro Congress 2020), 20–21 April 2020, Bangkok, Thailand.
- [502] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> International Conference & Expo on Chromatography Techniques (Chromatography 2020), 20–21 April 2020, Berlin, Germany.
- [503] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> European Dermatology Congress (Euro Dermatology 2020), 29–30 April 2020, Prague, Czech Republic.
- [504] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Roles and Applications of Modern Nanotechnology in Human Skin Cancer Cells’ DNA/RNA Hypermethylation and Hypomethylation for Human Skin Cancer Cells, Tissues and Tumors Diagnosis and Treatment under Synchrotron Radiation*”, 20<sup>th</sup> European Dermatology Congress (Euro Dermatology 2020), 29–30 April 2020, Prague, Czech Republic.
- [505] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> European Congress on Pharma and Pharmaceutical Sciences (European Pharma 2020), 02–03 March

2020, Edinburgh, Scotland.

- [506] **Alireza Heidari**, Scientific Advisory Board Member (SABM), BIT's 8<sup>th</sup> Annual Conference on Analytix–2020 (AnalytiX–2020), 04–06 March 2020, Osaka, Japan.
- [507] **Alireza Heidari**, Organizing Committee Member (OCM), Advances and Scientific Merits in Chemistry, 05–07 March 2020, San Francisco, California, USA.
- [508] **Alireza Heidari**, International Scientific Advisory Board Member (ISABM), International Conference on Nano Research and Development (ICNRD–2020), 12–14 March 2020, Singapore City, Singapore.
- [509] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> World Congress and Exhibition on Antibiotics and Antibiotic Resistance (Antibiotics 2020), 16–17 March 2020, London, UK.
- [510] **Alireza Heidari**, Organizing Committee Member (OCM), 10<sup>th</sup> International Conference and Exhibition on Advanced Cell and Gene Therapy (Cell Therapy 2020), 16–17 March 2020, Berlin, Germany.
- [511] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Orphan Drugs & Rare Diseases (Orphan Drugs 2020), 16–17 March 2020, Berlin, Germany.
- [512] **Alireza Heidari**, Scientific Advisory Board Member (SABM), Smart Devices Symposium 2020 (SDS2020), 17–19 March 2020, Osaka, Japan.
- [513] **Alireza Heidari**, Conference Committee Member (CCM), International Conference on Chemical Engineering & Catalysis (Chemical Research 2020/ICCEC–2020), 19–20 March 2020, Berlin, Germany.
- [514] **Alireza Heidari**, Conference Committee Member (CCM), 3<sup>rd</sup> International Conference on Obesity and Weight Loss (Obesity–2020), 19–20 March 2020, Rome, Italy.
- [515] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Eye & Vision Congress (Eye & Vision 2020), 25–26 March 2020, Miami, Florida, USA.
- [516] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> International Conference on Materials Science and Technology (Materials Technology 2020), 25–26 March 2020, Miami, Florida, USA.
- [517] **Alireza Heidari**, Organizing Committee Member (OCM), Global Congress and Expo on Pure and Applied Chemistry (Applied Chemistry–2020), 04–05 May 2020, Porto, Portugal.
- [518] **Alireza Heidari**, Organizing Committee Member (OCM), Global Congress and Expo on Advances in 3D Printing & Modelling (3DPrinting–2020), 07–08 May 2020, Porto, Portugal.
- [519] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> World Congress on Cell Science and Molecular Biology (Cell Science–2020), 11–12 May 2020, Manchester, UK.
- [520] **Alireza Heidari**, Organizing Committee Member (OCM), 36<sup>th</sup> World Congress on Materials Science and Nanotechnology (Materials Summit 2020), 13–14 May 2020, Tokyo, Japan.
- [521] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference On Virology (Virology–2020), 25–26 May 2020, London, UK.

- [522] **Alireza Heidari**, Organizing Committee Member (OCM), 15<sup>th</sup> International Conference on Material Chemistry & Science (Material Chemistry 2020), 25–26 May 2020, Tokyo, Japan.
- [523] **Alireza Heidari**, Organizing Committee Member (OCM), 13<sup>th</sup> Edition of International Conference on Infectious Diseases (Infectious Diseases 2020), 27–28 May, 2020, Dublin, Ireland.
- [524] **Alireza Heidari**, Program Committee Member (PCM), World Conference on Diabetes, Metabolism and Endocrinology (WCDME–2020), 28–29 May 2020, Los Angeles, California, USA.
- [525] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference and Expo on Materials Science and Nano Science (Materials–Science–2020), 08–09 June 2020, Kuala Lumpur, Malaysia.
- [526] **Alireza Heidari**, Organizing Committee Member (OCM), Global Summit on Material Science and Engineering (Material Science 2020), 08–09 June 2020, London, UK.
- [527] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Expo on Condensed Matter Physics (Condensed–Matter–2020), 08–09 June 2020, Kuala Lumpur, Malaysia.
- [528] **Alireza Heidari**, Organizing Committee Member (OCM), 33<sup>rd</sup> International Conference on Nanomaterials and Nanotechnology (Nanomaterials 2020), 15–16 June 2020, London, UK.
- [529] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Conference on Toxicology and Clinical Toxicology (Toxicology 2020), 17–18 June 2020, Rome, Italy.
- [530] **Alireza Heidari**, Scientific Committee Member (SCM), World Congress on Pharmaceuticals Sciences and Chemistry (Pharma–2020 Conference), 17–19 June 2020, London, UK.
- [531] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> Global Summit on Stem Cell Biology & Regenerative Medicine (SCRM–2020), 18–19 June 2020, Saint Petersburg, Russia.
- [532] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Hematologists Summit (Hematology–2020), 18–19 June 2020, Saint Petersburg, Russia.
- [533] **Alireza Heidari**, Technical Committee Member (TCM), 2020 International Workshop on Industrial Informatics (IWoII 2020), 19–21 June 2020, Prague, Czech Republic.
- [534] **Alireza Heidari**, Organizing Committee Member (OCM), 18<sup>th</sup> International Conference on Nanotechnology and Nanoengineering (Nanotechnology 2020), 22–23 June 2020, Venice, Italy.
- [535] **Alireza Heidari**, Invited, Key and Renowned Speaker, “*Market Analysis of Glycobiology and Glycochemistry 2020*”, 18<sup>th</sup> International Conference on Nanotechnology and Nanoengineering (Nanotechnology 2020), 22–23 June 2020, Venice, Italy.
- [536] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> World congress on Antibiotics (Antibiotics–2020), 22–23 June 2020, Zürich, Switzerland.



- [537] **Alireza Heidari**, Organizing Committee Member (OCM), 11<sup>th</sup> International Conference on Glycobiology & Glycochemistry (Glycobiology 2020), 22–23 June 2020, Venice, Italy.
- [538] **Alireza Heidari**, Organizing Committee Member (OCM), Materials Chemistry & Science (Materials Chemistry 2020), 22–23 June 2020, Osaka, Japan.
- [539] **Alireza Heidari**, Organizing Committee Member (OCM), 26<sup>th</sup> International Conference on Advanced Materials, Nanotechnology and Engineering (Nanomedicine Research on Effective Treatment for COVID–19), 22–23 June 2020, Webinar.
- [540] **Alireza Heidari**, Organizing Committee Member (OCM), World Summit on Management Sciences (SciTech Management Sciences Conference 2020), 29–30 June 2020, ibis Styles Bangkok Khaosan Viengtai, Thailand.
- [541] **Alireza Heidari**, Conference Committee Member (CCM), International Congress on Food Sciences (SciTech Food Sciences 2020), 01–02 July 2020, Thailand.
- [542] **Alireza Heidari**, Organizing Committee Member (OCM), 25<sup>th</sup> World Biotechnology Congress (World Biotechnology 2020), 15–16 July 2020, London, UK.
- [543] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Annual Congress on Cellular Therapies, Cancer, Stem Cells and Bio Medical Engineering (Cellular Therapies 2020), 17–18 July 2020, Vienna, Austria.
- [544] **Alireza Heidari**, Technical Committee Chair (TCC) and Program Committee Member (PCM), 3<sup>rd</sup> International Joint Conference on Metallurgical and Materials Engineering (JCMME 2020), 20–22 July 2020, Seoul, South Korea.
- [545] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Congress and Exhibition on Pharmacy (ICEP–2020), 13–14 August 2020, Atlanta, Georgia, USA.
- [546] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> International Conference on Brain Disorders and Therapeutics (Brain Disorders 2020), 21–22 August 2020, Paris, France.
- [547] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> World Congress on Frontiers in Cancer Research and Therapy (Frontiers in Cancer 2020), 24–25 August 2020, Kyoto, Japan.
- [548] **Alireza Heidari**, Organizing Committee Member (OCM), 33<sup>rd</sup> World Congress on Pharmacology, 26–27 August 2020, Barcelona, Spain.
- [549] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Artificial Intelligence, Automation and Robotics (Artificial Intelligence–2020), 26–27 August 2020, Dubai, UAE.
- [550] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress on Clinical Research & Biomarkers (WCCRB–2020), 14–15 September 2020, Vancouver, British Columbia, Canada.
- [551] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> World Congress on Breast Cancer and Women’s Health (Breast Cancer 2020), 14–16 September 2020, Sydney, New South Wales, Australia.
- [552] **Alireza Heidari**, Organizing Committee Member (OCM), 4<sup>th</sup> International Cancer Conference and Expo (iCancer 2020), 16–18 September 2020, Baltimore, Maryland, USA.

- [553] **Alireza Heidari**, Organizing Committee Member (OCM), World Summit on Management Sciences, 20–21 September 2020, Webinar.
- [554] **Alireza Heidari**, Organizing Committee Member (OCM), 14<sup>th</sup> Annual Conference on Stem Cell & Regenerative Medicine (Stem Cell 2020), 24–25 September 2020, Paris, France.
- [555] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference and Exhibition on Nutritional Science & Food Chemistry (OLCNSFC–2020), 08–09 October 2020, Lisbon, Portugal.
- [556] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Heart and Brain Congress, 12–13 October 2020, London, UK.
- [557] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> International Conference on Smart Materials and Structures (Smart Materials 2020), 19–20 October 2020, Amsterdam, Netherlands.
- [558] **Alireza Heidari**, Organizing Committee Member (OCM), 9<sup>th</sup> International Conference on Environmental Chemistry (Environmental Chemistry 2020), 19–20 October 2020, Athens, Greece.
- [559] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> World Congress on Peptide (Peptide 2020), 19–20 October 2020, London, UK.
- [560] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Microbiology & Infectious Diseases (Microbiology 2020), 19–21 October 2020, Rome, Italy.
- [561] **Alireza Heidari**, Organizing Committee Member (OCM), Global Congress & Expo on Nanotechnology (ISTNANO–2020), 21–22 October 2020, Rome, Italy.
- [562] **Alireza Heidari**, Organizing Committee Member (OCM), 33<sup>rd</sup> World Neuroscience and Neurology Conference (Neuroscience 2020), 02–03 November 2020, Rome, Italy.
- [563] **Alireza Heidari**, Organizing Committee Member (OCM), 5<sup>th</sup> World Congress and Expo on Immunology (Immunology–2020), 16–17 November 2020, Budapest, Hungary.
- [564] **Alireza Heidari**, Scientific Board Member (SBM), Global Conference on Nephrology (Nephro–2020), 19–20 November 2020, Luxembourg City, Luxembourg.
- [565] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Cardiology & Cardiovascular Diseases (Cardiology Summit 2020), 19–20 November 2020, Kuala Lumpur, Malaysia.
- [566] **Alireza Heidari**, Organizing Committee Member (OCM), 12<sup>th</sup> International Conference on Preventive Medicine & Public Health (Preventive Medicine 2020) 23–24 November 2020, London, UK.
- [567] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Advanced Materials and Sustainable Development (Advanced Materials 2020), 24–25 November 2020, Vancouver, British Columbia, Canada.
- [568] **Alireza Heidari**, International Advisory Committee Member (IACM), 3<sup>rd</sup> International Conference on Recent Trends in Multidisciplinary Research (ICRTMDR–20), 26–27 December 2020, Malé, Maldives.
- [569] **Alireza Heidari**, International Scientific Committee Member (ISCM), 4<sup>th</sup> International Joint Conference on Materials Science and Mechanical Engineering

(CMSME 2021), 15–17 January 2021, Singapore City, Singapore.

- [570] **Alireza Heidari**, Experts Advisory Board Member (EABM), 6<sup>th</sup> Annual Congress on Cell Sciences, Stem Cells and Regenerative Medicine (Stem Cells 2021), Online Webinar, 26–27 February 2021.
- [571] **Alireza Heidari**, Expert Advisory Committee Member (EACM), World Health Conference 2021 (WHC–2021), 11–15 March 2021, Nanjing, China.
- [572] **Alireza Heidari**, Organizing Committee Member (OCM), 1<sup>st</sup> International Conference on Stem Cell and Regenerative Medicine (Stem Cell 2021), 21–22 April 2021, Berlin, Germany.
- [573] **Alireza Heidari**, Technical Committee Member (TCM), 2021 IEEE 12<sup>th</sup> International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2021), 13–15 May 2021, Cape Town, South Africa.
- [574] **Alireza Heidari**, Technical Committee Member (TCM), 7<sup>th</sup> International Conference on Information Management and Industrial Engineering (ICII 2021), 13–15 May 2021, Cape Town, South Africa.
- [575] **Alireza Heidari**, Scientific Advisory Board Member (SABM), BIT’s 8<sup>th</sup> Annual Conference of AnalytiX–2021 (AnalytiX–2021), 19–21 May 2021, Osaka, Japan.
- [576] **Alireza Heidari**, International Advisory Committee Member (IACM), 1<sup>st</sup> International Conference on Engineering, Social–Sciences, and Humanities (IC–ESSU), 26–27 May 2021, Eastern Samar State University (ESSU)–Borongan Campus in Association with the Institute for Engineering Research and Publication (IFERP), Borongan City, Eastern Samar, Philippines.
- [577] **Alireza Heidari**, Technical Committee Member (TCM), 2021 IEEE the 4<sup>th</sup> International Conference on Nanoscience and Technology (ICNST 2021), 26–28 June 2021, Chengdu, China.
- [578] **Alireza Heidari**, Scientific Committee Member (SCM) and Keynote Speaker, International Conference on Science, Engineering & Technological Innovations (ICSETI–2021), 10–11 July 2021, Bangkok, Thailand.
- [579] **Alireza Heidari**, Program Committee Member (PCM), World Conference on Diabetes, Metabolism and Endocrinology (WCDME–2021), 15–16 July 2021, Chicago, Illinois, USA.
- [580] **Alireza Heidari**, Expert Advisory Board Member (EABM), International Conference on Heart and Cardiovascular Diseases (Heart and Cardiovascular 2021), 21–22 July 2021, Webinar.
- [581] **Alireza Heidari**, Plenary Speaker, Global Conference on Nursing and Health Care (Nursing–2021), 22–24 July 2021, Barcelona, Spain.
- [582] **Alireza Heidari**, Organizing Committee Member (OCM), 2021 International Conference on Nanotechnology and Applications (ICNA2021), 23–25 July 2021, Guilin, China.
- [583] **Alireza Heidari**, Organizing Committee Member (OCM), World Congress of Diabetes and Pediatric Endocrinology (Pediatric Endocrinology 2021), 20–21 August 2021, Toronto, Ontario, Canada.
- [584] **Alireza Heidari**, International Advisory Committee Member (IACM), 1<sup>st</sup> International Conference on Science Technology and Management (ICSTM–21), 23–24

September 2021, Bangkok, Thailand.

- [585] **Alireza Heidari**, Organizing Committee Member (OCM), 8<sup>th</sup> International Conference on Molecular Biology & Biochemistry (Molecular Biology–Biochemistry 2021), 18–19 October 2021, Tokyo, Japan.
- [586] **Alireza Heidari**, Organizing Committee Member (OCM), Webinar of Chemical Science and Chemical Engineering, 20–21 October 2021.
- [587] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Geriatrics and Gerontology (ICGG–2021), 25–27 October 2021, Vancouver, British Columbia, Canada.
- [588] **Alireza Heidari**, Organizing Committee Member (OCM), 38<sup>th</sup> Global Nanotechnology Congress (Nanotechnology 2021), 01–02 November 2021, Rome, Italy.
- [589] **Alireza Heidari**, Program Committee Member (PCM) and Technical Committee Member (TCM), 2021 International Conference on Intelligent Vehicles (ICoIV 2021), 7–9 November 2021, Chengdu, China.
- [590] **Alireza Heidari**, Scientific Board Member (SBM), International Conference on Immunology and Microbiology (ICIM–2021), 15–17 November 2021, Luxembourg City, Luxembourg.
- [591] **Alireza Heidari**, Organizing Committee Member (OCM), 20<sup>th</sup> International Conference on Pharmacology and Toxicology (Pharma 2021), 18–19 November 2021, Vienna, Austria.
- [592] **Alireza Heidari**, Plenary Speaker, Global Conference on Traditional and Alternative Medicine (GCTAM–2022), 14–16 March 2022, Barcelona, Spain.
- [593] **Alireza Heidari**, Organizing Committee Member (OCM), 7<sup>th</sup> International Conference on Neuroscience and Neurological Disorders (Advanced Neurology 2022), 18–19 March 2022, London, UK.
- [594] **Alireza Heidari**, Organizing Committee Member (OCM), 35<sup>th</sup> International Conference on Nanomaterials and Nanotechnology (Nano Expo 2021), 21–22 March 2022, Rome, Italy.
- [595] **Alireza Heidari**, Organizing Committee Member (OCM), International Conference on Nanoscience and Nanotechnology (Nanotechnology 2022), 18–19 April 2022, Dubai, UAE.
- [596] **Alireza Heidari**, Organizing Committee Member (OCM), Vaccines World Forum (VaccinesForum–2022), 18–20 April 2022, Porto, Portugal.
- [597] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> International Conference on Stem Cells Research, Cell and Gene Therapy (Stemcells–2022), 20–21 April 2022, Miami, Florida, USA.
- [598] **Alireza Heidari**, Technical Committee Member (TCM), 8<sup>th</sup> International Conference on Information Management and Industrial Engineering (ICII 2022), 25–27 May 2022, Cape Town, South Africa.
- [599] **Alireza Heidari**, Technical Program Committee Member (TPCM), 2022 IEEE 13<sup>th</sup> International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2022), 25–27 May 2022, Cape Town, South Africa.
- [600] **Alireza Heidari**, Scientific Board Member (SBM), Global Conference on Nursing and Health Care (Nursing–2022), 06–08 June 2022, Rome, Italy.

- [601] **Alireza Heidari**, Organizing Committee Member (OCM), 3<sup>rd</sup> International Congress on Surgery and Anaesthesia (ICSA 2022), 20–22 June 2022, Zürich, Switzerland.
- [602] **Alireza Heidari**, Organizing Committee Member (OCM), Nanotechnology Research and Applications World Forum (NanoReAp2022), 15–17 August 2022, Berlin, Germany.
- [603] **Alireza Heidari**, Technical Committee Member (TCM), 2022 5<sup>th</sup> International Conference on Mechanical Manufacturing and Industrial Engineering (MMIE 2022), 24–26 August 2022, Tokyo, Japan.
- [604] **Alireza Heidari**, Technical Committee Member (TCM), 2022 the 5<sup>th</sup> International Conference on Nanoscience and Technology (ICNST 2022), 24–26 August 2022, Tokyo, Japan.
- [605] **Alireza Heidari**, Scientific Committee Member (SCM), Global Meet on Vaccines (GMVACCINES2022), 5–7 September 2022, Amsterdam, Netherlands.
- [606] **Alireza Heidari**, Organizing Committee Member (OCM), 2<sup>nd</sup> Global Summit on Polymer Science and Composite Materials (PolyScience2022), 19–21 September 2022, Barcelona, Spain.
- [607] **Alireza Heidari**, Scientific Board Member (SBM), Global Conference on Materials Science and Engineering (GCMSE–2022), 07–09 November 2022, Valencia, Spain.
- [608] **Alireza Heidari**, Scientific Board Member (SBM), Global Conference on 3D Printing and Additive Manufacturing (3DPAM2022), 10–12 November 2022, Valencia, Spain.

## **RESEARCH INTERESTS:**

- Biophysical Chemistry
- Biomolecular Spectroscopy
- Biomedical Spectroscopy
- Quantum Chemistry
- Nanochemistry
- Modern Electronic Structure Computations
- Theoretical Chemistry
- Mathematical Chemistry
- Computational Chemistry
- Vibrational Spectroscopy
- Molecular Modelling
- Ab initio & Density Functional Methods

- Molecular Structure
- Biochemistry
- Molecular Simulation
- Pharmaceutical Chemistry
- Medicinal Chemistry
- Oncology
- Synchrotron Radiation
- Synchrocyclotron Radiation
- LASER
- Anti–Cancer Nano Drugs
- Nano Drugs Delivery
- ATR–FTIR Spectroscopy
- Raman Spectroscopy
- Intelligent Molecules
- Molecular Dynamics
- Biosensors
- Biomarkers
- Molecular Diagnostics
- Numerical Chemistry
- Nucleic Acids
- DNA/RNA Monitoring
- DNA/RNA Hypermethylation & Hypomethylation
- Human Cancer Tissues
- Human Cancer Cells
- Tumors
- Cancer Tissues
- Cancer Cells

## **LANGUAGES:**

- **Farsi (Persian):** Native.
- **English:** Fluent.

## **COMPUTER SKILLS:**

- Wolfram Research Mathematica
- Universal Math Solver
- The Ultimate Math Solver
- Stat Soft Statistica
- Stata
- SPSS
- Minitab
- Microsoft Math
- MathCAD
- Math Type
- Math Success Deluxe
- Math Works
- MATLAB
- Maple Soft Maple
- Equation Wizard
- Derive
- Collegepro Mathematics
- Basic Math Solved
- Algebra Equation Solver
- SAS
- BMDP
- EViews Enterprise Edition
- Function Grapher
- FX Graph
- GeoGebra
- Grapher
- LISREL
- Origin
- Gaussian 09
- GaussView 5
- OPUS
- AMPAC
- MOPAC
- HyperChem
- Spartan
- Titan
- MOLPRO
- Gamess
- COLUMBUS
- NWCHEM
- MOLFDIR
- ACES II
- Fortran
- C
- C++
- Linux
- Python
- JDK
- NAMD
- Octave
- R
- WRF
- Farsight Calculator
- FlexPDE Professional
- FX Draw
- FX PhysEquate
- Geometry Expressions
- GraphicMaster
- CoreIDRAW
- Math Magic Pro Edition
- Open MPI
- VASP
- QUANTUM-ESPRESSO
- ABINIT
- GPAW
- BigDFT
- AMBER
- CHARMM
- ADF QM/MM
- QMIC
- MOLDEN
- The Unscrambler® X
- DALTON
- DIRCCR12
- SORE
- LUCIA
- LUCAS
- 2D
- MOLCAS4
- Algebrator
- Casio FX9860 Emulator
- CurveExpert
- DPlot
- DreamCalc Pro
- EasyFit Pro
- Euler Math Toolbox
- FX Equation
- FX Stat
- Graph
- GS Calc
- Adobe Photoshop

- Math Calculator
- Math Resource Studio Pro
- MathCast
- MedCalc
- Novus Calculator
- SigmaPlot
- SMath Studio Desktop
- Universal Math Solver
- Math—o—mir
- MatheAss
- Mathematica Addons
- Mathematics
- Microsoft Mathematics
- PASS
- SLGallery
- SpeQ Mathematics
- Tecplot
- ViCalc
- Math Quiz Creator
- Math – Science
- MathGV
- MultiplexCalc
- RedCrab
- Small Stata
- Stata IC
- Stata SE

## **PROFESSIONAL BOOK COMPILATIONS:**

- **Alireza Heidari**, “*Solutions Manual for Physical Chemistry of Iran. Levine*”, 1<sup>st</sup> Edition, Mobtakeran Company Press, Tehran, Iran, 2007.
- **Alireza Heidari**, “*Principles of Modern Relativistic Quantum Mechanics*”, 1<sup>st</sup> Edition, Karvar Company Press, Tehran, Iran, 2008.
- **Alireza Heidari**, “*Principles and Methods of Using Chemical Abstracts*”, 1<sup>st</sup> Edition, Karvar Company Press, Tehran, Iran, 2008.
- **Alireza Heidari**, “*Fundamentals of Surface and Solid State Physical Chemistry*”, 1<sup>st</sup> Edition, Karvar Company Press, Tehran, Iran, 2008.
- **Alireza Heidari**, “*Molecular Physical Chemistry*”, 1<sup>st</sup> Edition, Karvar Company Press, Tehran, Iran, 2009.
- **Alireza Heidari**, “*Fundamentals of Quantum Chemistry and Molecular Spectroscopy*”, 1<sup>st</sup> Edition, Karvar Company Press, Tehran, Iran, 2009.

## **PROFESSIONAL BOOK TRANSLATIONS:**

- Alan K. Brisdon, “*Inorganic Spectroscopic Methods*”, 1<sup>st</sup> Edition, Oxford Chemistry Primers, Oxford University Press, 1998.



- Martin Cockett, Graham Dogget, “*Math’s for Chemists (Volume 1): Numbers, Functions and Calculus*”, 1<sup>st</sup> Edition, The Royal Society of Chemistry (RSC), 2003.
- Martin Cockett, Graham Dogget, “*Maths for Chemists (Volume 2): Power Series, Complex Numbers and Linear Algebra*”, 1<sup>st</sup> Edition, The Royal Society of Chemistry (RSC), 2003.
- H. Paschen, C. Coenen, T. Fleischer, R. Grünwald, D. Oertel, C. Revermann, “*Nanotechnologie Chemie: Forschung, Entwicklung, Anwendung*”, Erste Auflage, Springer, 2004.

## **CHAPTERS IN PROFESSIONAL BOOKS:**

- **Alireza Heidari**, “*Vibrational Spectroscopy of Nucleic Acids*”, Wahid Ali Khan (Editor), “*Basic Biochemistry*”, Austin Publishing Group (APG)/Austin Publications LLC, ISBN: 978–0–9971499–2–0, Pages 1–18, Jersey City, New Jersey, USA, 2016.
- **Alireza Heidari**, “*Pros and Cons Controversy on Future Prospects of Point Fluorescence Spectroscopy, X-Ray Fluorescence (XRF) Spectroscopy, Cold Vapour Atomic Fluorescence (CVAF) Spectroscopy, Fluorescence Imaging and Fluorescence Endoscopy in Photodynamic Therapy (PDT) for Human Cancer Cells and Tissues Prevention, Diagnosis and Treatment*”, Chapter 01, “*Top 10 Contributions on Pharmaceutical Sciences*”, Avid Science, Pages 2–29, Hyderabad, Telangana, India, 2018.
- **Alireza Heidari**, “*Elimination of Cancer Cells Using Thin Layers of Cadmium Oxide (CdO)–DNA/RNA Sandwiched Complex Composite Plasmonic Nanostructure under Synchrotron Radiation*”, Importance & Applications of Nanotechnology, Austin Publishing Group (APG)/Austin Publications LLC, Vol. 1, Chapter 2, pp. 8–38, 2021.

## **EDITOR IN PROFESSIONAL BOOKS:**

- **Alireza Heidari**, “*Advanced Applications of Nanotechnology in Cancer Detection and Therapy*”, IGI Global, ISBN–10: 179980139X, ISBN–13: 978–1799801399, Hershey, Pennsylvania, USA, 2019.
- **Alireza Heidari**, “*Advances in Medical and Health Research (Volume–1)*”, Rubicon Publications, ISBN: 978–1–913482–47–3, London, UK, 2022.

## **SCHOLARSHIP AWARDS:**

- Sharif University of Technology scholarship for M.Sc. degree studies, Kish Island, Hormozgan, Iran, 2006.
- Islamic Azad University (IAU), North Tehran Branch, scholarship for M.Sc. degree studies, Tehran, Iran, 2006–2008.
- Islamic Azad University (IAU), North Tehran Branch, scholarship for research, Tehran, Iran, 2006–2008.
- Young Researchers Club (YRC) scholarship for M.Sc. degree studies from the Islamic Azad University (IAU), Tehran, Iran, 2006–2008.
- Young Researchers Club (YRC) scholarship for research from the Islamic Azad University (IAU), Tehran, Iran, 2006–2008.
- Islamic Azad University (IAU), Science & Research Campus, scholarship for Ph.D. degree studies, Tehran, Iran, 2009.
- Institute for Advanced Studies (IAS) scholarship for research, Tehran, Iran, 2009–2012.
- California South University (CSU) award of excellence in “*Chemical Kinetics and Dynamics*”, Irvine, California, USA, 2010.
- California South University (CSU) award of excellence in “*Electrochemical Analysis*”, Irvine, California, USA, 2012.
- California South University (CSU) award of distinction for Ph.D. in Chemistry with distinction in subject “*Advanced Quantum Mechanics*”, Irvine, California, USA, 2010.
- California South University (CSU) award of distinction for Ph.D. in Chemistry with distinction in subject “*Advanced Research*”, Irvine, California, USA, 2010.
- California South University (CSU) scholarship for Ph.D. degree studies from California South University (CSU), Irvine, California, USA, 2009–2012.
- California South University (CSU) scholarship for research, Irvine, California, USA, 2009–2012.
- California South University (CSU) scholarship for postdoctoral research, Irvine, California, USA, 2014.

- Australian Research Council (ARC) scholarship (International Postgraduate Research Scholarship (IPRS)) for research, Melbourne, Victoria, Australia, 2013–2014.
- Australian Research Council (ARC) award (Australian Postgraduate Award (APA)) for research, Melbourne, Victoria, Australia, 2013–2014.
- Monash University scholarship for research (Monash Graduate Scholarship (MGS)), Melbourne, Victoria, Australia, 2013–2014.

## **MEMBERSHIPS IN PROFESSIONAL SOCIETIES:**

### ➤ **National Memberships:**

#### **2006 – Present:**

- An active member of the Iranian Mathematical Society (IMS), The Physics Society of Iran (PSI), The Islamic Azad University Young Researchers Club (YRC), Iranian Association for the Popularization of Sciences (IAPS), Central Committee for Iranian Mathematical House (CCIMH), Iranian Association for Management of Technology (IAMT), Iranian Society of Surface Science & Technology (ISST), Iranian Educational Administration Association (IEAA), Association for Scientific Development of Iran (ASDI), Iranian Curriculum Development Association (ICDA), Iranian Association of Chemical Engineers (IACE), Iranian Society of Acoustics and Vibration (ISAV), Iranian Society for Industry and Academia (ISIA), Council of Iranian Scientific Associations (CISA), Iranian Society of Engineering Education (ISEE), Iranian Project Management Association (IPMA), Iranian Education Research Association (IERA), Iranian Society of Optical and Photonics (ISOP), Iranian Metallurgical Engineers Society (IMES), Iran Society of Biophysical Chemistry (ISBC), Institute for Advanced Studies (IAS), Iranian Higher Education Association (IHEA), Iranian Operations Research Society (IORS), Iranian Nanotechnology Society (INS), Iranian Biotechnology Society (IBS), Iranian Fuzzy Systems Society (IFSS), Iranian Corrosion Association (ICA), Iran Composites Association (ICA), Biochemical Society of Iran (BSI), Iranian Catalysis Association (ICA),

Iranian Statistical Society (ISS), Iranian Chemical Society (ICS), Nuclear Society of Iran (NSI), Iran Polymer Society (IPS), Iran Color Society (ICS), Pasteur Institute of Iran (IPI).

➤ **International Memberships:**

**2009 – Present:**

- The American Association for the Advancement of Science (AAAS), American Chemical Society (ACS), American Chemistry Council (ACC), American Society for Biochemistry and Molecular Biology (ASBMB), American Physical Society (APS), American Institute of Physics (AIP), American Mathematical Society (AMS), Mathematical Association of America (MAA), Royal Society of Chemistry (RSC), The Chemical Institute of Canada (CIC), The Canadian Society for Chemistry (CSC), The Royal Australian Chemical Institute (RACI), International Union of Pure and Applied Chemistry (IUPAC), Monash Campus Cluster (MCC), Monash Science Centre for Biospectroscopy, National Computational Infrastructure (NCI), Monash e-Research Centre, Australian Research Council (ARC), ARC Centre of Excellence for Electromaterials Science (ACES), Victorian Life Sciences Computational Initiative (VLSCI), Multi-modal Australian Sciences Imaging and Visualisation Environment (MASSIVE), Australian Synchrotron, The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Victorian Partnership for Advanced Computing (VPAC), National Computational Merit Allocation Scheme (NCMAS), iVEC, National Collaborative Research Infrastructure Strategy (NCRIS), National Health and Medical Research Council (NHMRC), Monash Chemical Society (MCS), Monash Science Society (MSS), Ustinov College, St Catharine's College, National eResearch Collaboration Tools and Resources (NeCTAR), Monash Ionic Liquids Group, Research Data Storage Infrastructure (RDSI), VicNode, Monash Computational Chemistry Group, and International Neuroinformatics Coordinating Facility (INCF), European Scientific Institute (ESI), Ankara University Institute of Nuclear Sciences,

National Institute of Science Communication and Information Resources (New Delhi, India), Indo–American Pharmaceutical Society, American Association of Pharmaceutical Scientists (AAPS), Euro Asia Research and Development Association (EARDA), Institute of Advanced Engineering and Science (IAES), International Academic Institute for Science and Technology (IAIEST), Platform for Young Researchers Welfare Society (PYRWS), Centre For Info Bio Technology (CIBTech), Institute of Research Advances, Association of Global Science Innovations (AGSI), American Institute of Science (AIS), Technical Research Organization India (TROI/TROINDIA), Indian Society for Technical Education (ISTE), Open Association of Research Society USA (OARS), American International Standards Institute (AISI), National Science Library (NSL), Council of Scientific and Industrial Research (New Delhi, India), International Society of Universal Research in Sciences, China National Knowledge Infrastructure (CNKI), International Committee of Medical Journal Editors (ICMJE), International Association of Teachers and Teacher Educators (IATTE), USA, RISHI Educational Society, Research Culture Society, National Institute of Science Communication and Information Resources (NISCAIR) (New Delhi, India), Council of Scientific and Industrial Research (ICSIR) (New Delhi, India), National Science Library (NSL) (New Delhi, India), Committee on Publishing Ethics (COPE), Sanskruti Multidisciplinary Research and Development Training Institute (SMRDTI) (Solapur, Maharashtra, India), Indian Academicians and Researchers Association (IARA), Scholars Academic & Scientific Society (SAS), International Institutional Review Board (IIRB), Ibn Sina Academy of Medieval Medicine and Sciences (IAMMS), Institute for Engineering Research and Publication (IFERP) (Tamil Nadu, India), Center of Excellence in Lifesciences (CELS), Institute for Engineering Research and Publication (IFERP), Innovative Education and Scientific Research Foundation (IESRF).

## **OTHER ACTIVITIES:**

- Editor-in-Chief at the Department of Chemistry at Mobtakeran Company Press, Tehran, Iran, 2005 – 2006.
- Dean of Department of Chemistry at the Karvar Company Press, Tehran, Iran, 2007–2009.

## **HONORS & AWARDS:**

- Student researcher of the year at the Islamic Azad University (IAU) for four consecutive years – 2002, 2003, 2004 and 2005, Islamic Azad University (IAU), North Tehran Branch, Tehran, Iran.
- Winner of the 13<sup>th</sup> National Iranian Student Book Festival Prize for the translation “Mathematics for Chemists (Volumes 1&2)”, Tehran, Iran, 2006.
- Student researcher of the year at the Islamic Azad University (IAU) for three consecutive years – 2006, 2007 and 2008, Islamic Azad University (IAU), North Tehran Branch, Tehran, Iran.
- Winner of the 15<sup>th</sup> National Iranian Student Book Festival for compiling “Principles of Modern Relativistic Quantum Mechanics”, Tehran, Iran, 2008.
- Winner of the 7<sup>th</sup> National Iranian Roshd Book Festival for the translation of “Mathematics for Chemists (Volumes 1&2)”, Tehran, Iran, 2008.
- Winner of the Best Poster Presentation Prize at the National Conference for Computing in Chemistry, Arak, Iran, 2008.
- Awarded best thesis prize from the Islamic Azad University (IAU), Tehran, Iran, 2008.
- Ranked top student for six consecutive years – 2002–2008, Islamic Azad University (IAU), North Tehran Branch, Tehran, Iran.
- Awarded 1<sup>st</sup> class honors for my B.Sc. in Pure Chemistry degree with a final overall GPA of 19.08/20 and accepted for an M.Sc. degree program without the mandatory pre-requisite entrance examination requirement by the Islamic Azad University

(IAU), North Tehran Branch, Tehran, Iran, 2006.

- Awarded 1<sup>st</sup> class honors for my M.Sc. in Chemistry (Physical Chemistry) degree with a final overall GPA of 19.08/20 and accepted for Ph.D. studies without a mandatory pre-requisite entrance examination requirement by the Islamic Azad University (IAU), Science & Research Campus, Tehran, Iran, 2009.
- Awarded Honorary Doctorate Degree (Degree Honoris Causa) in Physics (Atomic and Molecular Physics) by the Islamic Azad University (IAU), Tehran, Iran, 2008.
- Winner of best thesis in Iran, Tehran, Iran, 2009.
- Awarded highest GPA for my M.Sc. thesis with a GPA score of 20/20, Islamic Azad University (IAU), North Tehran Branch, Tehran, Iran, 2008.
- Winner at the 13<sup>th</sup> National Iranian Student Thesis Festival, Tehran, Iran, 2009.
- Winner of the 16<sup>th</sup> National Iranian Student Book Festival for compiling “Principles and Methods of Using Chemical Abstracts”, Tehran, Iran, 2009.
- Winner of the Best Poster Presentation Prize at the 1<sup>st</sup> Conference on the Application of Nanotechnology in the Petroleum and Petrochemical Industries, Mahshahr, Iran, May 2011.
- Winner of the Best Poster and Best Oral Presentation Prize at the 1<sup>st</sup> National Student Conference on Nanotechnology, Shahreza, Iran, July 2011.
- Participating at the Carbon Nanotubes workshop during the 1<sup>st</sup> National Student Conference on Nanotechnology, Shahreza, Iran, July 2011.
- Awarded Doctor of Science (D.Sc.) Diploma in Chemistry by the California South University (CSU), Irvine, California, USA, 2010.
- Winner of the Best Lecturer Prize in Caspian Higher Education Institute, Qazvin, Iran, 2012.
- Awarded M.Sc. degree offer from Islamic Azad University (IAU), North Tehran Branch, Tehran, Iran, 2006.
- Awarded Ph.D. degree offer from Islamic Azad University (IAU), Science & Research Campus, Tehran, Iran, 2009.
- Awarded Ph.D. degree offer from California South University (CSU), Irvine,

California, USA, 2009.

- Awarded “Project Management” Postdoctoral Fellowship Program by School of Chemistry, Faculty of Science, Monash University, Melbourne, Victoria, Australia, 2013.
- Awarded “Modern Molecular Electronic–Structure Computations Theory” and also “Nanochemistry” Postdoctoral fellowship programs by California South University (CSU), Irvine, California, 2014.