

Curriculum Vitae

(Updated in January 2018)

Personal Details

Mehdi Yoosefian

Associate Professor of Physical Chemistry

Head of Chemistry and chemical engineering department

Graduate University of Advanced Technology

Kerman, Iran,

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myoosefian7@gmail.com

Date of Birth: June 1983

Place of Birth: Gonabad, Khorasan, Iran

Nationality: Iranian

Education

Ph.D. (Physical Chemistry)

Department of Chemistry, Faculty of Science, University of Birjand, Birjand, Iran
(www.birjand.ac.ir), September 2008 – December 2014

- **Ph.D. Thesis:** Investigation of proton transfer reaction and computation of thermodynamic properties related to it
- **Supervisor:** Professor Heidar Raissi
- **GPA:** 19.85 / 20

M.Sc. (Physical Chemistry)

Department of Chemistry, Faculty of Science, University of Birjand, Birjand, Iran
(www.birjand.ac.ir), September 2006 – August 2008

- **M.Sc. Thesis:** Synthesis and investigation of intramolecular hydrogen bond and vibrational assignment of 3-methyle amino-1-phenyl-but-2-en-1-one, study of SHN hydrogen bond
- **Supervisor:** Professor Heidar Raissi
- **GPA:** 19.15 / 20

Honors

- Member of Iran's National Elites Foundation
- Top GPA in Ph.D. and M.Sc.

Research Interests

Current Research Area

- Nano theoretical Calculations
- Nanostructures
- Carbon materials
- Nanomaterial
- Quantum chemistry

Research Interests

- Density functional theory
- Hydrogen bond
- Structural study
- Molecular simulation
- Thermodynamic and kinetic Study
- Proton Transfer
- Reaction Mechanism
- Computational Chemistry

Publications

Refereed Journal Papers:

- 1- **Yoosefian, M.**, Rahmanifar, E., Etminan, N., “*Nanocarrier for levodopa Parkinson therapeutic drug; comprehensive benserazide analysis*” (2018) *Artificial cells, nanomedicine, and biotechnology*, pp. 1-13
- 2- **Yoosefian, M.**, “*A high efficient nanostructured filter based on functionalized carbon nanotube to reduce the tobacco-specific nitrosamines, NNK*” (2018) *Applied Surface Science* 434, pp. 134-141
- 3- E Mirhaji, E., Afshar, M., Rezvani, S., **Yoosefian, M.** “*Boron nitride nanotubes as a nanotransporter for anti-cancer docetaxel drug in water/ethanol solution*” (2018) *Journal of Molecular Liquids* 271, pp. 151-156
- 4- **Yoosefian, M.**, Etminan, N., “*Leucine/Pd-loaded (5, 5) single-walled carbon nanotube matrix as a novel nanobiosensors for in silico detection of protein*” (2018) *Amino acids* 50, pp.653-661
- 5- **Yoosefian, M.**, Pakpour, A., Etminan, N., “*Nanofilter platform based on functionalized carbon nanotubes for adsorption and elimination of Acrolein, a toxicant in cigarette smoke*” (2018) *Applied Surface Science* 444, pp. 598-603
- 6- **Yoosefian, M.**, Mola, A., Hajiabadi, H., Delouei, R.A., Shahri, S.M.M., “*Theoretical prediction of chloroform, ethanol, water and DMSO effects on electronic characteristics of Capecitabine different conformers as an anticancer chemotherapy drug*” (2018) *Journal of Molecular Liquids* 264, pp. 115-118
- 7- Mirhaji, E., **Yoosefian, M.**, “*Structural analysis, solvent effects and intramolecular interactions in rilpivirine: A new non-nucleoside reverse transcriptase inhibitor for HIV treatment*” (2017) *Journal of Molecular Liquids* 246, pp. 124-130
- 8- **Yoosefian, M.**, “*Powerful greenhouse gas nitrous oxide adsorption onto intrinsic and Pd doped Single walled carbon nanotube*” (2017) *Applied Surface Science*, 392, pp. 225-230
- 9- **Yoosefian, M.**, Mola, A., Fooladi, E., Ahmadzadeh S., “*The effect of solvents on formaldehyde adsorption performance on pristine and Pd doped on single-walled carbon nanotube using density functional theory*” (2017) *Journal of Molecular Liquids*, 225, pp. 34-41
- 10- Rahmanifar, E., **Yoosefian, M.**, Karimi-Maleh, H., “*Application of CdO/SWCNTs Nanocomposite Ionic Liquids Carbon Paste Electrode as a Voltammetric Sensor for Determination of Benserazide*” (2017) *Current Analytical Chemistry*, 13 (1), pp. 46-51
- 11- **Yoosefian, M.**, Ahmadzadeh, S., Aghasi, M., Dolatabadi, M., “*Optimization of electrocoagulation process for efficient removal of ciprofloxacin antibiotic using iron electrode; kinetic and isotherm studies of adsorption*” (2017) *Journal of Molecular Liquids*, 225, pp. 544-553
- 12- Alipour Zaghmarzi, F., Zahedi, M., Mola, A., Abedini, S., Arshadi, S., Ahmadzadeh, S., Etminan, N., Younesi, O., Rahmanifar, E., **Yoosefian, M.**, (2017) “*Fullerene-C 60 and crown ether doped on C 60 sensors for high sensitive detection of alkali and alkaline earth cations*” *Physica E: Low-dimensional Systems and Nanostructures*, 87, pp. 51-58

- 13- Rahmanifar, E., **Yoosefian, M.**, Karimi-Maleh, H., “*Electronic properties and reactivity trend for defect functionalization of single-walled carbon nanotube with B, Al, Ga atoms*” (2016) *Synthetic Metals*, 221, pp. 242-246
- 14- **Yoosefian, M.**, Etminan, N., Ahmadzadeh, S., “*Solvents effect on the stability and reactivity of Tamoxifen and its nano metabolites as the breast anticancer drug*” (2016) *Journal of Molecular Liquids*, 223, pp. 1151-1157
- 15- **Yoosefian, M.**, Etminan, N., Moghani, M.Z., Mirzaei, S., Abbasi, S., “*The role of boron nitride nanotube as a new chemical sensor and potential reservoir for hydrogen halides environmental pollutants*” (2016) *Superlattices and Microstructures*, 98, pp. 325-331
- 16- **Yoosefian, M.**, Etminan, N., “*Density functional theory (DFT) study of a new novel bionanosensor hybrid; tryptophan/Pd doped single walled carbon nanotube*” (2016) *Physica E: Low-dimensional Systems and Nanostructures*, 81, pp. 116-121
- 17- Etminan, N., **Yoosefian, M.**, Raissi, H., Hakimi, M., “*Solvent effects on the stability and the electronic properties of histidine/Pd-doped single-walled carbon nanotube biosensor*” (2016) *Journal of Molecular Liquids*, 214, pp. 313-318
- 18- **Yoosefian, M.**, Ansarinik, Z., Etminan, N., “*Density functional theory computational study on solvent effect, molecular conformations, energies and intramolecular hydrogen bond strength in different possible nano-conformers of acetaminophen*” (2016) *Journal of Molecular Liquids*, 213, pp. 115-121
- 19- **Yoosefian, M.**, Etminan, N., “*The role of solvent polarity in the electronic properties, stability and reactivity trend of a tryptophane/Pd doped SWCNT novel nanobiosensor from polar protic to non-polar solvents*” (2016) *RSC Advances* 6 (69), pp. 64818-64825
- 20- Ahmadzadeh, S., Rezayi, M., Faghih-Mirzaei, E., **Yoosefian, M.**, Kassim, A., “*Highly selective detection of titanium (III) in industrial waste water samples using meso-octamethylcalix [4] pyrrole-doped PVC membrane ion-selective electrode*” (2015) *Electrochimica Acta*, 178, pp. 580-589
- 21- **Yoosefian, M.**, Mola, A., “*Solvent effects on binding energy, stability order and hydrogen bonding of guanine–cytosine base pair*” (2015) *Journal of Molecular Liquids*, 209, pp. 526-530
- 22- **Yoosefian, M.**, Zahedi, M., Mola, A., Naserian, S., “*A DFT comparative study of single and double SO₂ adsorption on Pt-doped and Au-doped single-walled carbon nanotube*” (2015) *Applied Surface Science*, 349, pp. 864-869
- 23- Naeimi, A., Saeednia, S., **Yoosefian, M.**, Rudbari, H.A., Nardo, V.M., “*A novel dinuclear schiff base copper complex as an efficient and cost effective catalyst for oxidation of alcohol: Synthesis, crystal structure and theoretical studies*” (2015) *Journal of Chemical Sciences*, 127 (7), pp. 1321-1328

- 24- Yoosefian, M.,** Raissi, H., Mola, A., “*The hybrid of Pd and SWCNT (Pd loaded on SWCNT) as an efficient sensor for the formaldehyde molecule detection: A DFT study*” (2015) *Sensors and Actuators B: Chemical*, 212, pp. 55-62
- 25- Yoosefian, M.,** Raissi, H., Soheili, S., “*A comprehensive study of the structure, tautomeric properties, and conformational flexibility of 3-Hydroxy-propeneselenal*” (2015) *Journal of Chemical Sciences*, 127 (6), pp. 999-1006
- 26- Yoosefian, M.,** Karimi-Maleh, H., Sanati, A.L., “*A theoretical study of solvent effects on the characteristics of the intramolecular hydrogen bond in Droxidopa*” (2015) *Journal of Chemical Sciences*, 127 (6), pp. 1007-1013
- 27- Yoosefian, M.,** Chermahini, Z.J., Raissi, H., Mola, A., Sadeghi, M., “*A theoretical study on the structure of 2-amino-1, 3, 4-thiadiazole and its 5-substituted derivatives in the gas phase, water, THF and DMSO solutions*” (2015) *Journal of Molecular Liquids*, 203, pp. 137-142
- 28- Yoosefian, M.,** Etminan, N., “*Pd-doped single-walled carbon nanotube as a nanobiosensor for histidine amino acid, a DFT study*” (2015) *RSC Advances*, 5 (39), pp. 31172-31178
- 29- Karimi-Maleh, H., Sanati, A.L., Gupta, V.K., Yoosefian, M., Asif, M., Bahari, A.,** “*A voltammetric biosensor based on ionic liquid/NiO nanoparticle modified carbon paste electrode for the determination of nicotinamide adenine dinucleotide (NADH)*” (2014) *Sensors and Actuators B: Chemical* 204, pp. 647-654
- 30- Karimi-Maleh, H., Moazampour, M., Yoosefian, M., Sanati, A.L., Tahernejad-Javazmi, F., Mahani, M.,** “*An electrochemical nanosensor for simultaneous voltammetric determination of ascorbic acid and Sudan I in food samples*” (2014) *Food analytical methods*, 7 (10), pp. 2169-2176
- 31- Pahlavan, A., Gupta, V.K., Sanati, A.L., Karimi, F., Yoosefian, M., Ghadami, M.,** “*ZnO/CNTs nanocomposite/ionic liquid carbon paste electrode for determination of noradrenaline in human samples*” (2014) *Electrochimica Acta*, 123, pp. 456-462
- 32- Yoosefian, M., Barzgari, Z., Yoosefian, J.,** “*Ab initio study of Pd-decorated single-walled carbon nanotube with C-vacancy as CO sensor*” (2014) *Structural Chemistry*, 25 (1), pp. 9-19
- 33- Raissi, H., Yoosefian, M., Mollania, F., Khoshkhou, S.** “*Electronic structures, intramolecular interactions, and aromaticity of substituted 1-(2-iminoethylidene) silan amine: A density functional study*” (2013) *Structural Chemistry* 24 (1), pp. 123-137
- 34- Yoosefian, M., Barzgari, Z., Yoosefian, J.** “*Ab initio study of Pd-decorated single-walled carbon nanotube with C-vacancy as CO sensor*” (2014) *Structural Chemistry*, 25, pp. 9-19
- 35- Raissi, H., Khanmohammadi, A., Yoosefian, M., Mollania, F.** “*Ab initio and DFT studies on 1-(thionitrosomethylene) hydrazine: conformers, energies, and intramolecular hydrogen-bond strength*” (2013) *Structural Chemistry*, pp. 1-13

- 36-** Raissi, H., **Yoosefian, M.**, Mollania, F., Farzad, F. “*The effect of substitution on structure, intramolecular hydrogen bonding strength, electron density and resonance in 3-amino 2-iminomethyl acryl aldehyde*” (2012) Journal of Theoretical and Computational Chemistry 11 (5), pp. 925-939
- 37-** Raissi, H., **Yoosefian, M.**, Mollania, F. “*Hydrogen bond studies in substituted imino-acetaldehyde oxime*” (2012) Computational and Theoretical Chemistry 996, pp. 68-75
- 38-** Raissi, H., **Yoosefian, M.**, Mollania, F. “*Comprehensive study of the interaction between hydrogen halides and methanol derivatives*” (2012) International Journal of Quantum Chemistry 112 (16), pp. 2782-2786
- 39-** Raissi, H., **Yoosefian, M.** “*Substituent effect on the reaction mechanism of proton transfer in formamide*” (2012) International Journal of Quantum Chemistry 112 (11) , pp. 2378-2381
- 40-** Raissi, H., **Yoosefian, M.**, Moshfeghi, E., Farzad, F. “*Theoretical study on β -aminoacroleine; Density functional theory, atoms in molecules theory and natural bond orbitals studies*” (2012) Journal of Chemical Sciences 124 (3), pp. 731-739
- 41-** **Yoosefian M.**, Raissi H., Davamdar E., Esmaeili A.A., Azaroon M. “*Synthesis and theoretical study of intramolecular hydrogen bond at two possible positions in pyrazolo[1,2-b]phthalazine*” (2012) Chinese Journal of Chemistry 30 (4) , pp. 779-784
- 42-** Raissi, H., **Yoosefian, M.**, Khoshkhou, S. “*Conformational study of the (z)-[(2-iminoethylidene)silyl]amine at the MP2, DFT and G2MP2 levels*” (2012) Computational and Theoretical Chemistry 983 , pp. 1-6
- 43-** Raissi, H., **Yoosefian, M.**, Zamani, S., Farzad, F. “*Conformational study, molecular structure, and S..HN, S..HN intramolecular hydrogen bond in thioformyl-3-aminoacrylaldehyde*” (2012) Journal of Sulfur Chemistry 33 (1) , pp. 75-85
- 44-** Raissi, H., **Yoosefian, M.**, Hajizadeh, A., Imampour, J.S., Karimi, M., Farzad, F. “*Theoretical description of substituent effects in 2,4-pentanedione: AIM, NBO, and NMR study*” (2012) Bulletin of the Chemical Society of Japan 85 (1) , pp. 87-92
- 45-** Raissi, H., Farzad, F., Nadim, E.S., **Yoosefian, M.**, Farsi, H., Nowroozi, A., Loghmaninejad, D. “*Theoretical study of the effects of substitution, solvation, and structure on the interaction between nitriles and methanol*” (2012) International Journal of Quantum Chemistry 112 (5), pp. 1273-1284
- 46-** **Yoosefian, M.**, Raissi, H., Nadim, E.S., Farzad, F., Fazli, M., Karimzade, E., Nowroozi, A. “*Substituent effect on structure, electron density, and intramolecular hydrogen bonding in nitroso-oxime methane*” (2011) International Journal of Quantum Chemistry 111 (14), pp. 3505-3516
- 47-** Raissi, H., **Yoosefian, M.**, Mollania, F., Farzad, F., Nowroozi, A.R., Loghmaninejad, D. “*Ab initio and DFT computational studies on molecular conformations and strength of the intramolecular hydrogen bond in different conformers of 3-amino-2-iminomethyl acryl aldehyde*” (2011) Computational and Theoretical Chemistry 966 (1-3) , pp. 299-305

- 48-** Raissi, H., Nadim, E.S., **Yoosefian, M.**, Farzad, F., Ghiamati, E., Nowroozi, A.R., Fazli, M., Amoozadeh, A. “*The effects of substitutions on structure, electron density, resonance and intramolecular hydrogen bonding strength in 3-mercapto-propenethial*” (2010) Journal of Molecular Structure: THEOCHEM 960 (1-3) , pp. 1-9
- 49-** Nadim, E.S., Raissi, H., **Yoosefian, M.**, Farzad, F., Nowroozi, A.R. “*Ab initio and DFT computational studies on molecular conformations and intramolecular hydrogen bonding in 3-mercapto-but-2-enethial*” (2010) Journal of Sulfur Chemistry 31 (4) , pp. 275-285
- 50-** Raissi, H., Jalbout, A.F., **Yoosefian, M.**, Fazli, M., Nowroozi, A., Shahinin, M., De Leon, A. “*Intramolecular hydrogen bonding in structural conformers of 2-amino methylene malonaldehyde: aim and nbo studies*” (2010) International Journal of Quantum Chemistry 110 (4) , pp. 821-830
- 51-** Fazli, M., Jalbout, A.F., Raissi, H., Ghiassi, H., **Yoosefian, M.** “*Analysis of the intramolecular hydrogen bond strength in 3-hydroxy-propenethial (HPT)*” (2009) Journal of Theoretical and Computational Chemistry 8 (4) , pp. 713-732
- 52-** Raissi, H., Jalbout, A.F., Fazli, M., **Yoosefian, M.**, Ghiassi, H., Wang, Z., De Leon, A. “*Intramolecular hydrogen bonding in derivatives of 3-amino-propenethial*” (2009) International Journal of Quantum Chemistry 109 (7) , pp. 1497-1504
- 53-** Raissi, H., Jalbout, A.F., Nasseria, M.A., **Yoosefian, M.**, Ghiassi, H., Hameed, A.J. “*The effect of substitution on the intramolecular hydrogen bonding in 3-hydroxy-propenethial*” (2008) International Journal of Quantum Chemistry 108 (9) , pp. 1444-1451

Refereed Conference Papers:

- 1- **Yoosefian, M.**, Etminan, N. “DFT study on the adsorption of Leucine and Isoleucine aliphatic amino acids on Pd doped single-walled carbon nanotube” 18th Iranian Physical Chemistry Conference, 2016, Kish Island, Iran, pp. 301-302
- 2- **Yoosefian, M.**, Etminan, N., Sabae, S., Mir, A.A. “Theoretical study of stable conformers and intramolecular hydrogen bonding in chemotherapy drug Lomustine” 18th Iranian Physical Chemistry Conference, 2016, Kish Island, Iran, pp. 312-313
- 3- **Yoosefian, M.**, Mir, A.A., Etminan, N. “DFT study of boron nitride nanotube as hydrogen fluoride sensor” 18th Iranian Physical Chemistry Conference, 2016, Kish Island, Iran, pp. 310-311
- 4- **Yoosefian, M.**, Etminan, N. “DFT study of solvent effects on the stability and the electronic properties of Leucine amino acid adsorbed onto Pd doped carbon nanotube in water medium” 18th Iranian Physical Chemistry Conference, 2016, Kish Island, Iran, pp. 308-309

5- **Yoosefian, M.**, Etminan, N. "Comprehensive DFT study of the stability and electronic properties of histidine aromatic amino acid adsorbed onto Pd doped carbon nanotube in water medium" 3rd International Congress of Chemistry and Chemical Engineering, 2016, University of Tehran, Iran

6- Etminan, N., **Yoosefian, M.** "A theoretical study on the adsorption of histidine and phenylalanine aromatic amino acids on Pd doped single-walled carbon nanotube" 3rd International Congress of Chemistry and Chemical Engineering, 2016, University of Tehran, Iran

7- **Yoosefian, M.**, Mir A.A., Etminan, N. "DFT study of Pt doped single-walled carbon nanotube as a chemical sensor for NNK" 3rd International Congress of Chemistry and Chemical Engineering, 2016, University of Tehran, Iran

8- **Yoosefian, M.**, Etminan, N. "DFT study of Histidine adsorption features on Pd doped single walled carbon nanotubes" 18th Iranian Chemistry Congress, 2015, University of Semnan, Iran

9- **Yoosefian, M.**, Etminan, N. "Pd loaded on single-walled carbon nanotube as a gas sensing of Nitrous oxide" 18th Iranian Chemistry Congress, 2015, University of Semnan, Iran

10- **Yoosefian, M.**, Etminan, N. "Design a novel sensor for environmental pollutant SO₂ gas detection based on Pt-doped single walled carbon nanotube" International Conference on Environmental Science, Engineering & Technologies (CESET 2015), 2015, University of Tehran, Iran

11- **Yoosefian, M.**, Sanati, A.L. "Solvents effects on the characteristics of the intramolecular hydrogen bond in Droxidopa" 17th Iranian Physical Chemistry Conference, 2014, University of Khajeh-Nasir, Tehran, Iran, pp. 290-292

12- **Yoosefian, M.**, Sanati, A.L. "Fullerene-C60 and crown ether doped on C60 sensors for high sensitive detection of alkali and alkaline earth cations" 17th Iranian Physical Chemistry Conference, 2014, University of Khajeh-Nasir, Tehran, Iran, pp. 293-295

13- **Yoosefian, M.**, Raissi, H., Mola, A. "Investigation of pristine and Pd-doped SWCNT as a sensor for chemical sensing of formaldehyde" 17th Iranian Physical Chemistry Conference, 2014, University of Khajeh-Nasir, Tehran, Iran, pp. 819-820

14- **Yoosefian, M.**, Mola, A. "Solvent effect on Guanine and Cytosine hydrogen bonding, stability order and binding energy" 17th Iranian Physical Chemistry Conference, 2014, University of Khajeh-Nasir, Tehran, Iran, pp. 821-822

15- Karimi-Maleh, H., **Yoosefian, M.**, Sanati, A. "A voltammetric sensor based on NiO/CNTs nanocomposite ionic liquid carbon paste electrode for simultaneous determination of doxidopa and serotonin" 20th Iranian Analytical Chemistry Conference, 2014 Isfahan University of Technology, Isfahan, Iran

16- Karimi-Maleh, H., **Yoosefian, M.**, Sanati, A. "A highly sensitive modified carbon paste electrode based on NiO/CNT nanocomposite and ionic liquid for voltammetric determination of NADH" 20th Iranian Analytical Chemistry Conference, 2014 Isfahan University of Technology, Isfahan, Iran

17- **Yoosefian, M.**, Naserian, S. Solvent effects on tautomerism equilibria in 2-amino-1,3,4-thiadiazole" 16th Iranian Physical Chemistry Conference, 2013, University of Mazandaran, Babolsar, Iran, pp. 924-925

18- **Yoosefian, M.**, Naserian, S. "Importance of steric effect on the hydrogen bond strength of (Z)-3-aminoacrylaldehyde" 16th Iranian Physical Chemistry Conference, 2013, University of Mazandaran, Babolsar, Iran, pp. 926-927

19- Moazampour, M., Karimi-Maleh, H., **Yoosefian, M.**, "ZnO/CNTs nanocomposite as a sensor and a catechon derivative as a mediator for determination of captopril in pharmaceutical and biological samples" 9th Iranian Annual Seminar of Electrochemistry, 2013 University of Tarbiat Modares, Tehran, Iran

20- Beitollahi, H., Rostami, S., Alizadeh, R., Karimi-Maleh, H., **Yoosefian, M.**, "Voltammetric determination of carbidopa using an ionic liquid modified carbon paste electrode" 9th Iranian Annual Seminar of Electrochemistry, 2013 University of Tarbiat Modares, Tehran, Iran

21- **Yoosefian, M.**, Raissi, H. "Intramolecular Hydrogen Bonding in α -fluoro Hydroxy-Propenethia, AIM and NBO study" 16th Iranian Physical Chemistry Conference, 2013, University of Mazandaran, Babolsar, Iran, pp. 898-898

22- **Yoosefian, M.**, Raissi, H. "Theoretical study on weak interaction in Pyrazolo[1,2-b]phthalazine" 16th Iranian Physical Chemistry Conference, 2013, University of Mazandaran, Babolsar, Iran, pp. 900-901

23- Raissi, H., Kamali, Z., **Yoosefian M.** "Investigation of stable conformers in (thioxosilyl) ethyleneselenol compound" 10th Iranian Chemical Conference, 2012, Kerman, Iran, pp. 196

24- Raissi, H., Soheili, S., **Yoosefian, M.** “*Theoretical study on intramolecular hydrogen bonding in 3-Hydroxy-propeneselenal title compound*” 10th Iranian Chemical Conference, 2012, Kerman, Iran, pp. 197

25- Raissi, H., **Yoosefian, M.**, Islamdoost, S. “*Theoretical Study the molecular structure and intramolecular hydrogen bond energies conformers of 3-Amino-propeneselenal (APS): Energetic, NBO and AIM analyses*” 10th Iranian Chemical Conference, 2012, Kerman, Iran, pp. 197

26- **Yoosefian, M.**, Raissi, H., Abedini, A.A. “*Resonance effect on N-H...O and O-H...O hydrogen bond strength in 3-amino-3-hydroxy-acrylamide compound, AIM and NBO studies*” 9th Iranian Chemical Conference, 2011, Behshahr, Iran, pp. 1282-1285

27- **Yoosefian, M.**, Raissi, H., Hashemzadeh H. “*Investigation of structure, NMR spectra and charge density in plausible conformers of 3-amino-3-hydroxy-acrylamide Compound*” 9th Iranian Chemical Conference, 2011, Behshahr, Iran, pp. 1278-1281

28- Raissi, H., **Yoosefian, M.**, Hashemzadeh H. “*Theoretical investigation of stability 3-amino-3-hydroxy-2-nitro acrylamide conformers in aqueous media*” 9th Iranian Chemical Conference, 2011, Behshahr, Iran, pp. 1274-1277

29- Raissi, H., **Yoosefian, M.**, Abedini, A.A. “*Study of molecular structure, electron transfers and charge analysis in α -fluoro nitroso oxim methane compound*” 9th Iranian Chemical Conference, 2011, Behshahr, Iran, pp. 1286-1288

30- Esmacili, E., **Yoosefian, M.** “*Computational studies on molecular conformations in 3-Amino Propenthiol*” 8th Iranian Chemical Conference, 2010, Ghazvin, Iran, pp. 113-116

Teaching Experience

- **Advanced Physical Chemistry**, Department of Chemistry, Graduate University of Advanced Technology, Kerman, Iran, 2013- present.
- **Quantum Chemistry**, Department of Chemistry, Graduate University of Advanced Technology, Kerman, Iran, 2013- present.
- **Theoretical Chemistry of Nanostructures**, Department of Chemistry, Graduate University of Advanced Technology, Kerman, Iran, 2013- present.
- **Surface Chemistry and Solid State**, Department of Chemistry, Graduate University of Advanced Technology, Kerman, Iran, 2013- present.
- **Quantum Computations in Nanostructured Materials**, Department of Chemistry, Graduate University of Advanced Technology, Kerman, Iran, 2013- present.
- **Quantum Chemistry**, Department of Chemistry, University of Birjand, Birjand, Iran, 2008-2013.
- **Molecular spectroscopy**, Department of Chemistry, University of Birjand, Birjand, Iran, 2012-2013.
- **Quantum Chemistry**, Department of Chemistry, University of Payam Noor, Gonabad, Iran, 2008– 2013.
- **Molecular spectroscopy**, Department of Chemistry, University of Payam Noor, Gonabad, Iran, 2008– 2013.
- **Physical Chemistry II**, Department of Chemistry, University of Payam Noor, Gonabad, Iran, 2008– 2013.
- **Physical Chemistry I**, Department of Chemistry, University of Payam Noor, Gonabad, Iran, 2010– 2013.
- **Physical Organic Chemistry**, Department of Chemistry, University of Payam Noor, Gonabad, Iran, 2008– 2013.
- **Physical Chemistry II**, Department of Chemistry, University of Payam Noor, Birjand, Iran, 2008– 2013.

• **General Chemistry II**, Department of Chemistry, University of Payam Noor, Gonabad, Iran, 2008– 2013.

• **General Chemistry I**, Department of Chemistry, University of Birjand, Birjand, Iran, 2008– 2013.

Computer Skills

Computer Software Packages

- Gaussian 09 W
- GROMACS & VMD
- Quantum ESPRESSO
- Nanomodulator
- Gauss View
- AIM2000
- Chem Office (CS Chem3D Pro and CS Chem Draw Ultra
- ISIS Draw 2.1.3 Standalone

Language Skills

- Persian: Mother Tongue
- English: Second Language
- Arabic: Basic Knowledge