
Resume of Avat(Arman) Taherpour

Avat (Arman) Taherpour - Ph.D

Professor of Organic Chemistry

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Invited co-worker: Medical Biology Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran.

Research Programs:

Visiting Academic: The University of Queensland, Reactive Intermediates and Unusual Molecules Group (Professor Curt Wentrup's Group, Chemistry Building, School of Molecular and Microbial Office, Brisbane, Qld 4072, Australia. 2006.

Post-Doctorate of Organic Chemistry: The University of Queensland, Reactive Intermediates and Unusual Molecules Group (Professor Curt Wentrup's Group, Chemistry Building, School of Molecular and Microbial Office, Brisbane, Qld 4072, Australia. Under Supervision Professor Curt Wentrup FAA., 2006-2007.

Research programs:*The University of Queensland (UQ), Reactive Intermediates and Unusual Molecules Group (Professor Curt Wentrup's Group, Chemistry Building, School of Molecular and Microbial Office, Brisbane, Qld 4072, Australia. Under Supervision Professor Curt Wentrup FAA. July-September 2008 and August-September 2009.

*The University of New England (UNE), Chemistry Department, Science and Technology Faculty, UNE, Armidale, Australia (Professor S. Glover's Group) November 2011-February 2012.

Courses Taught (in accordance with the educational program of Iran in universities):

B. S.:

General Chemistry (I & II), Organic Chemistry (1,2 & 3), Spectroscopy in Organic Chemistry, Organometallic Chemistry, Systematic Identification of Organic Compounds, Fundamentals of Polymer Chemistry, Physical Organic Chemistry, Extraction of Essential Oils from Medicinal Herbs, Pharmaceutical Chemistry, Synthesis of Organic Compounds.

M. S.:

Advanced Organic Chemistry, Heterocyclic Chemistry, Pharmaceutical Chemistry, Fundamental of Molecular Spectroscopy, Special Topics, Physical Organic Chemistry, Synthesis of Organic Compounds, , Theoretical Chemistry of Nanostructures, Computational Chemistry.

Ph.D.:

Advanced Organic Chemistry, Heterocyclic Chemistry, Synthesis of Organic Compounds, Reactive Intermediates, Fundamental of Molecular Spectroscopy, Computational Nano-chemistry, Theoretical Chemistry of Nanostructures.

***Number of Graduated M.Sc. and Ph.D. Under supervision (06 / 2015):**

- Graduated M.Sc. students of Chemistry 115.
- Graduated Ph.D. students of Chemistry 3.
- M.Sc. Students of Chemistry 15. (In Razi University and other Universities).
- Ph.D. Students of Chemistry 7. (In Razi University and other Universities).

Membership:

- Member of the Chemical Society of Iran (CSI).
- Member of the Central Committee of the Iranian Chemical Society (CCICS; 2010-2012).

Editorial Boards:

- Associate Editor of Journal of Spectroscopy and Dynamics (2011-2013).
- Journal of Reports in Pharmaceutical Sciences (JRPS).

Research Interests:

- 1) Computational Chemistry, Molecular Modeling and Theoretical Chemistry.
- 2) Organic Compounds Synthesis. Microwave Synthesis of Organic Compounds.
- 3) Physical Organic Studies.
- 4) Spectroscopic Studies of Organic Compounds (NMR, IR, UV).
- 5) Phytochemistry and Extraction of Essential Oil from Herbs.
- 6) Microwave Assisted Synthesis in Organic Chemistry, FVT and Photochemistry.
- 7) Nano-Chemistry and related sciences.

List of Publications in Journals and Paper Presented:

- 1- **A. A. Taherpour**, S. Mirzaei, M. H. Khalilian, Mechanistic study of the hydrolytic degradation and protonation of temozolomide, *RSC-Advances*, 2015, 5, 41112–41119.
- 2- M. Shamsipur, M. Irandoust, **A. A. Taherpour**, A. Shokravi, S. Bacili, ¹H-NMR study of the stoichiometry and stability of the Ba²⁺, Sr²⁺, Hg²⁺, Pb²⁺, K⁺, Ag⁺, and Tl⁺ complexes with a new macrocyclic diamide in acetonitrile–nitrobenzene solvent mixture, *Journal of the Iranian Chemical Society (JICS)*, 2015, 10.1007/s13738-015-0666-0.
- 3- B. Dadpu, D. Nematollahi, **A. A. Taherpour**, H. Rezapasand, DFT Study of HOMO Structural Map of Diketones and Ketoesters Towards Prediction of Electrochemical Oxidation, *Molecular Simulation*, 2015, 41(4), 237-244.
- 4- **A. A. Taherpour**, O. Rezaei, Z. Shahri, J. Jalilian, M. Jamshidi, N. Zolfaghar, First principles studies of electronic and optical properties of helium adsorption on Sc-doped BN monolayer, *Journal of the Iranian Chemical Society (JICS)*, 2015, 10.1007/s13738-015-0672-2.
- 5- **A. A. Taherpour**, A. Mozafari, S. Ranjbar, S. Taban, A study of the effects of solvent on structural and conformational properties of ranitidine tautomer forms by DFT method, *Structural Chemistry*, 2015, 26(2),517-529.
- 6- N. Shahabadi, S. Hadadi, Z. Ghasemian, **A. A. Taherpour**, Racemic R,S-venlafaxine hydrochloride–DNA interaction: Experimental and computational evidence, *Spectrochimica Acta-Part A*, 2015, 145, 540-552.

- 7- **A. A. Taherpour**, D. Narian, A. Taherpour, Structural relationships and theoretical study of the free energies of electron transfer, electrochemical properties, and electron transfer kinetic of cephalosporin antibiotics derivatives with fullerenes in nanostructure of [R].C_n (R= cefadroxil, cefepime, cephalexin, cefotaxime, cefoperazone and ceftriaxone) supramolecular complexes, *Journal of Nanostructure in Chemistry-Springer*, 2015, 5(2),153-167.
- 8- **A. A. Taherpour**, M. Rizebandi, F. Jahanian, E. Naghibi, N. Mahdizadeh, Theoretical Study of Electron Transfer Process Between Fullerenes and Neurotransmitters; Acetylcholine, Dopamine, Serotonin and Epinephrine in Nanostructures [Neurotransmitters].C_n Complexes, *Journal of Chemical Biology (JOCB-Springer)*, 2015, Under publication.
- 9- **A. A. Taherpour**, Ako Yari, S. Taban, One-pot Solvent Free Catalytic Dimerization Reaction of Phenylacetylene to 1-Phenylnaphthalene, Theoretical and Experimental Structural Studies, *Journal of Chemical Sciences (JCS-Springer)*, 2015, Under publication.
- 10- **A. A. Taherpour**, N. Zolfaghar, Study of Electron Transfer Process Between Fullerenes and Membrane Cells of E-coli in Presence of Dihydrostreptomycin in NaCl and Sucrose Medias, *International Journal of Electrochemical Science*, 2015, Under publication.
- 11- **A. A. Taherpour**, N. Zolfaghar, Theoretical Study of Electron Transfer Process Between Fullerenes and Membrane Cells of Helicobacter pylori, *The European Physical Journal E (EPJ E)-Springer*, 2015, Under publication.
- 12- **Avat (Arman) Taherpour** and Leila Fathiyan, Free Energies of Electron Transfer, Electrochemical Properties, Electron Transfer Kinetic Theoretical and Quantitative Structural Relationship Studies of C_n@X-[HbA] (HbA=Hemoglobin A; X= α - and β -Fumarate Crosslinked Hemoglobins (α XL & β XL)) Nanostructure Complexes, *J. Phys. Theor. Chem. IAU Iran*, 2015, 12(1),55-68.
- 13- **A. A. Taherpour**, Nazanin Jahangiri, Structural Relationships and Theoretical Study of Free Energies of Electron Transfer, Electrochemical Kinetic and Photo Electron Transfer Properties of Enzyme Derivatives with Fullerenes in Nanostructure of [R].C_n (R= Laccase *Coriolus hirsutus* (LCh), Tyrosinase, Laccase *Rhus-vernificera* (LRv), Cytochrome-c peroxidase, Ascorbate oxidase and Cytochrome-c oxidase) Supramolecular Complexes, *J. Phys. Theor. Chem. IAU Iran*, 2015, Under publication.
- 14- Arezou Taherpour and **Avat (Arman) Taherpour**, Study of Fullerene C₆₀ Effects on *Escherichia coli* ATCC 25922 in Presence of Antibiotics. *Journal of Nanomedicine and Biotherapeutic Discovery*, 2015-Accepted for publication.
- 15- Mojtaba Shamsipur, Moslem Mohammadi, **Avat (Arman) Taherpour**, Vito Lippolis, Riccardo Montis, Development of a novel PVC-membrane fluorescent sensor based on N,N'-bis(dansylamidoethyl)-N,N'-bis(2-pyridylmethyl)propylene-diamine as a new fluoroionophore for highly sensitive and selective monitoring of trace amounts of La³⁺ ions in aqueous solutions, *Sensors and Actuators B: Chemical*, 192(1), 2014, 378-385.
- 16- Noushin Mandoumi, Fariborz Nasri, Masoud Shariati-Rad, **Avat (Arman) Taherpour**, Mohammad Bagher Gholivand, Mojtaba Shamsipur, Spectrophotometric study of formation, structure, stability and kinetics of charge-transfer complexation of iodine with 1,4,7,10,13,16-hexamethyl-1,4,7,10,13,16-hexaazaacyclooctadecane in chloroform solution. Application of hard-modeling approaches and theoretical calculations, *Journal of Molecular Structure*, 1047, 2013, 179-185.

- 17- S Glover, B Greatrex, **A. A. Taherpour**, A Rosser, Formation, theoretical properties and HERON reactivity of cyclic N, N-dialkoxyamides, *Australian Journal of Chemistry - an International Journal for Chemical Science*, *Aust. J. Chem.* 2014, *67*, 507–520.
- 18- **A. A. Taherpour**, E. Rajaeian, H. Shafiei, M. Malekdar, Theoretical study of 1,3-dipolar cycloaddition reactions between 7–10 membered simple cycloalkynes and triazoles R–N₃ (R = H, CH₃, Ph), *Structural Chemistry*, 2014, *25*(5),1483-1493.
- 19- N. Shahabadi, S. Hadadi, **A. A. Taherpour**, Synthesis, characterization and DNA binding studies of a new Pt(II) complex containing the drug levetiracetam: Combining experimental and computational methods, *Applied Biochemistry and Biotechnology-Springer*, 2014, *172*(5), 2436-2454.
- 20- M. Shamsipur, F. Nasri, **A. A. Taherpour**, Conductometric and ¹H NMR studies of thermodynamics of complexation of Zn²⁺, Cd²⁺ and Pb²⁺ ions with tetrathia-12-crown-4 in dimethylsulfoxide-nitrobenzene mixtures, *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 2013, DOI 10.1007/s10847-013-0314-1
- 21- Maryam Malekdar, **Avat (Arman) Taherpour**, Issa Yavari and Kambiz Larijani, One-pot Microwave-Assisted Solvent Free Synthesis, Theoretical and Experimental Studies on Barrier Rotation of C-N Bond of N-Alkenyl-1,2,3-Triazoles, *Structural Chemistry-Springer (Accepted for publication)*
- 22- **Avat (Arman) Taherpour**, Arezou Taherpour, Narges Zolfaghar-Kerahroudi, Study of electron transfer process between fullerenes and membrane cells of Escherichia coli in the presence of dinitrophenol and dicyclohexylcarbodiimide, *Arabian Journal of Chemistry* (2013) xxx, xxx–xxx.
- 23- **Avat (Arman) Taherpour**, Mohammad Mehdi Khodaei, Baram Ahmed Hama Ameen, Majid Ghaitouli, Nosratollah Mahdizadeh, Hamid Reza Amjadian, Kambiz Larijani, Chemical composition analysis of the essential oil of Solanum nigrum L. by HS/SPME method and calculation of the biochemical coefficients of the components, *Arabian Journal of Chemistry* (2013) xxx, xxx–xxx.
- 24- Vahid Maleki, Mohammad Reza Ardakani, Farhad Rejali, **Avat (Arman) Taherpour**, Physiological Responses of Sweet Basil (*Ocimum basilicum* L.) to Triple Inoculation with *Azotobacter*, *Azospirillum*, *Glomus intraradices* and Foliar Application of Citric Acid, *Annals of Biological Research*, 4(1), 2013, 62-71.
- 25- **Avat (Arman) Taherpour**, Zahra Talebi-Haftadori, Free energies, kinetics, and photoelectron-transfer properties, and theoretical and quantitative structural relationship studies of [SWCNT(5,5)-armchair-C_nH₂₀][R] (R=η²-C_mPd(dppf), η²-C_mPd(dppr), and η²-C_mPd(dppcym)₂, n = 20 to 300 and m=60 and 70) nanostructure complexes, *International Nano Letters*, 2013, 3:22.
- 26- **Avat (Arman) Taherpour**, Masomeh Tayebi Suraki and Nosratollah Mahdizadeh, Theoretical free energies of electron transfer, electrochemical properties, electron transfer kinetic and quantitative structural relationships studies of alkynyldihydrofullerene in [X-UT-Y][R-C₆₀-M⁺] supramolecular complexes, *European Journal of Chemistry*, 3(3), (2012), 340-347.

- 27- M. Abdoli-Senejani, **A. A. Taherpour**, H. R. Memarian, M. Khosravani, Theoretical studies on the rotamers and dynamic behaviours of ethyl-5-acetyl-4-(3',4'-dimethoxyphenyl)-2,6-dimethyl-1,4-dihydropyridine-3-carboxylate, *Structural Chemistry*, 24(1), 2013, 191-200.
- 28- S. Yavari, S. Nasiri-Ghidari, **A. A. Taherpour**, I. Yavari, Synthesis of alkyl bis(dimethylamino)methylenecarbamodithioates from 1,1,3,3-tetramethylguanidine, CS₂ and oxiranes, *Chinese Chemical Letters*, 23 (2012) 699–702.
- 29- **A. A. Taherpour**, M. Tayebi-Suraki, N. Mahdizadeh, Theoretical Free Energies of Electron Transfer, Electrochemical Properties, Electron Transfer Kinetic Theoretical and Quantitative Structural Relationships Studies of Alkynyl-dihydrofullerene (1-Alkynyl-C₆₀ Carbanion) in [X-UT-Y][R-C₆₀-M⁺](R=tert-Bu- & Hex-C≡C-; M=Li & K, in DMSO & THF Solvents) Supramolecular Complexes, *Eur. J. Chem.*, 3(3), 2012, 340-347.
- 30- S. Yavari, **A. A. Taherpour**, I. Yavari, Efficient synthesis of 2-hydroxyalkyl alkanedithioates from 1,3-diketones, CS₂, and epoxides, *Journal of Sulfur Chemistry*, Vol. xx, No. xx, Month 2012, 1–6. (Impress)
- 31- **A. A. Taherpour** and R. Jalajardi, Structural Relationships and Theoretical Study of Free Energies of Electron Transfer, Electrochemical Properties and Electron Transfer Kinetic of Ferrocene Derivatives with Fullerenes in Nanostructures of [(R)₂Cp₂-Fe].C_n Supramolecular Complexes. *Fullerenes, Nanotubes and Carbon Nanostructures*. 21(7), 2013, 653-680.
- 32- **A. A. Taherpour** and M. Maleki-Noureini, Free Energies of Electron Transfer, Electron Transfer Kinetic Theoretical and Quantitative Structural Relationships and Electrochemical Properties Studies of Gadolinium Nitride Cluster Fullerenes Gd₃N@C_n in [X-UT-Y][Gd₃N@C_n](n=80, 82, 84, 86 and 88) Supramolecular Complexes, *Fullerenes, Nanotubes and Carbon Nanostructures*. 21(6), 2013, 485-502.
- 33- **A. A. Taherpour**, Theoretical Studies of the Free Energies of Electron Transfer and Electron Transfer Kinetics in Nanostructure Supramolecular Complexes of Cis-Unsaturated Thiocrown Ethers and Ce and Gd Endohedral Metallofullerenes [X-UT-Y][M@C₈₂] (M=Ce,Gd), *Arab. J. Chem.*, xx, 2012, xxx (Impress).
- 34- A. A. Suratgar, S. Rafiei, **A. A. Taherpour**, A. Babaei, Design of a Qubit and a Decoder in Quantum Computing Based on a Spin Field Effect, *Journal of Applied Research and Technology*, 10(2), 2012, 152-161.
- 35- S. Jafari Mehrabadi, B. Sobhani Aragh, V. Khoshkharesh, **A. A. Taherpour**, Mechanical buckling of nanocomposite rectangular plate reinforced by aligned and straight single-walled carbon nanotubes, *Composites Part B: Engineering*, 43(4), 2012, 2031–2040.
- 36- **A. A. Taherpour**, Study of Electrochemical Properties, Free Energies of Electron Transfer and Reduction Potentials of Supramolecular [X-UT-Y]@C_n Complexes and Fullerenes C₆₀ to C₃₀₀, *Fullerenes, Nanotubes and Carbon Nanostructures*. 20: 17–30, 2012.
- 37- **Avat (Arman) Taherpour**, Adele Aghagolnezhad-Gerdroudbari and Saied Rafiei, Neural Network CFFBP Theoretical and Quantitative Structural Relationship Studies of Reorganization Energies of [SWCNT(5,5)-Armchair-C_nH₂₀] (n=20-310) Nanostructures. *Int. J. Electrochem. Sci.*, 7 (2012) 2468 – 2486.

- 38- **Avat (Arman) Taherpour** and Nosratollah Mahdizadeh, Theoretical and Quantitative Structural Relationship Study on Fullerenes Polarizabilities on The Basis of Monopole-Dipole Interactions Theorem. *Orient. J. Chem.*, 28, 2012, 247.
- 39- **A. A. Taherpour**, Hossein Maroofi, Zeinab Rafie and Kambiz Larijani, Chemical Composition Analysis of the Essential Oil of *Melissa officinalis* L. of Kurdistan-Iran by HS/SPME Method and Calculation the Biophysicochemical Coefficients of the Components, *Natural Product Research*. Vol. 26, No. 2, January 2012, 152–160.
- 40- **Avat (Arman) Taherpour** and P. Lajevardi, Free Energies of Electron Transfer, Electrochemical Properties, and Electron Transfer Kinetic Theoretical and Quantitative Structural Relationship Studies of $[La_2@C_{72}(Adamantylidene)_x][SWCNT(5,5)\text{-Armchair-}C_nH_{20}]$ ($x = 0, 1$ and $n=20\text{-}300$) Nanostructure Complexes. *Int. J. Electrochem. Sci.*, 6 (2011) 5482 - 5498
- 41- **Avat (Arman) Taherpour**, Hossein Maroofi, FaezehAzimi, Kambiz Larijani Reza Vafaei Shoushtari and Mahdi Changizi Chemical Compositions of the Essential Oil of *Ferulago Bernardii* TOMK. and M. PIMEN. of Iran. *Natural Science*, Vol.3, No.2, 2011,104-108.
- 42- **Avat (Arman) Taherpour** and Amir Mohammad Hashemi, Theoretical and Quantitative Structural Relationships Studies of Free Energies of Electron Transfer, Electron Transfer Kinetic and Electrochemical Properties of Metal Nitride Cluster Fullerenes $Y_3N@C_{80}$ Methano Mono Adduct Derivatives in $[X\text{-}UT\text{-}V][Y_3N@C_{80}\text{-}[6,6]\text{-Methanofullerene-R}]$ (R: DEM, ex-TTF and $OCH_2\text{-}AQ$) Supramolecular Complexes. *International Journal of Green Nanotechnology: Physics and Chemistry*, 3:213–228, 2011.
- 43- **Avat (Arman) Taherpour** and Farzaneh Biuki, Theoretical and Quantitative Structural Relationships of the Electrochemical Properties of *Cis*-Unsaturated Thiocrown Ethers and n-Type Material Bulk-Heterojunction Polymer Solar Cells as Supramolecular Complexes $[X\text{-}UT\text{-}Y]@R$ (R=PCBM, *p*-EHO-PCBM and *p*-EHO-PCBA). *J. Inf. Display*, Vol. 12, No. 3, September 2011, 145–152.
- 44- **Avat (Arman) Taherpour** and Ahmad-Reza Shafaati, Theoretical Study of Structural Relationships and Electrochemical Properties of $[DNA\text{-Nucleotide Bases}]@C_n$ Complexes. *Orient. J. Chem.*, Vol. 27(3), 823-833 (2011).
- 45- **A. A. Taherpour** and Elahe Rajaeian, Ab initio Study of Simple Mg-Ene Reactions Between Propenyl Magnesium Halides and Ethylene (Type-1 Intermolecular Reaction). *J. Phys. & Theo. Chem. I.A.U. Iran*, 8(1): 1-9, Spring 2011.
- 46- **A. A. Taherpour**, Photophysical Properties of Electron Transfer Process Between 1,3,5-Trisubstituted Oligoaryleneethynylene Benzene Star-Shaped Molecules and Fullerenes, *J. Phys. & Theo. Chem. I.A.U. Iran*, 8(2): Spring 2011.
- 47- **A. A. Taherpour**, H. Shafiee, E. Rajaian, Ab initio Studies of Molozonide Formation in 1,3-Dipolar Cycloaddition Reactions Between C7-C10 Membered Simple Cycloalkynes and O₃, *Orient. J. Chem.*, Vol. 27(3), 885-893 (2011)
- 48- **Avat(Arman)Taherpour** and Tayebeh Asadi, Theoretical and Quantitative Structural Relationships of the Electron Transfer and Electrochemical Properties of *Cis*-Unsaturated Thiocrown Ethers and Supramolecular Complexes $[X\text{-}UT\text{-}Y]@[La_2@C_{72}(Adamantylidene$

- Mono-Adducts)n] (n=0,1), *Fullerenes, Nanotubes and Carbon Nanostructures*. 2011, 19, 166-181.
- 49- **Avat(Arman)Taherpour**, Hossein Maroofi, Azadeh Kazempour and Kambiz Larijani, Mahdi Changizi and Reza Vafaei Shoushtari, Chemical Composition of the Essential Oil of *Hymenocrater longiflorus Benth.* of Iran. *Natural Science*, Vol.3, No.2 (2011) 104-108.
- 50- **Avat(Arman)Taherpour**, David Kvaskoff, Paul V. Bernhardt and Curt Wentrup, 9-Azidoacridine and 9-acridinylnitrene, "Special Issue Article" of *J. Phys. Org. Chem.*, 2010, 23, 382-389.
- 51- **Avat(Arman)Taherpour**, Hossein Maroofi, Omid Bajelani and Kambiz Larijani, Chemical composition of the essential oil of *Valeriana alliariifolia Adams* of Iran, *Natural Product Research*, 24(10), 2010, 973-978.
- 52- **Avat(Arman)Taherpour**, Structural relationship between photophysical data of 1,3,5-trisubstituted oligoaryleneethynylene benzene star-shaped molecules and number of carbon atoms, *Physics and Chemistry of Liquids*, 48(3), 2010, 289-297.
- 53- **Avat(Arman)Taherpour** and Esmat Mohammadinasab, Topological Relationship Between Wiener, Padmaker-Ivan, and Szeged Indices and Energy and Electric Moments in Armchair Polyhex Nanotubes with the Same Circumference and Varying Lengths, *Fullerenes, Nanotubes and Carbon Nanostructures*, 18: 72-86, 2010.
- 54- **Avat(Arman)Taherpour** and Maryam Maleki, Theoretical Study of Structural Relationships and Electrochemical Properties of Supramolecular [14-MR Macrolides]@C_n Complexes, *Analytical Letters*, 43, 2010, 658-673.
- 55- **Avat(Arman)Taherpour**, Theoretical and Quantitative Structural Relationship Studies of Electrochemical Properties of the Nanostructures of Cis-Unsaturated Thiocrown Ethers and Their Supramolecular Complexes [X-UTY][M@C₈₂] (M=Ce, Gd), *Phosphorus, Sulfur, and Silicon*, 185:422-432, 2010.
- 56- **Avat(Arman)Taherpour**, Microwave-assisted solid phase conversion study of Meldrum's acid to ethylenetetracarboxylic dianhydride (C₆O₆), *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 75 (2010) 493-497.
- 57- **Avat(Arman)Taherpour**, Theoretical and Quantitative Structural Relationships of the Electrochemical Properties of [M@C₈₂]@[SWCNT(5,5)-armchair-C_nH₂₀] (M= La, Y and n=20-300) Nanostructure Complexes, *International Journal of Green Nanotechnology: Physics and Chemistry*, 1(2) (2010) 97-109.
- 58- **Avat(Arman)Taherpour**, Theoretical and Quantitative Structural Relationship Studies of Electrochemical Properties of the Nanostructures of Cis-Unsaturated Thiocrown Ethers and Their Supramolecular Complexes [X-UTY][M@C₈₂] (M=Ce, Gd), *Phosphorus, Sulfur, and Silicon*, 185:422-432, 2010.
- 59- **Avat(Arman)Taherpour** and Farshid Keyvan, Structural Relationships and Theoretical Study of Electrochemical Properties of 1,3,2-Dithiazolyl Radicals With Fullerenes in Nanostructure [1,3,2-DTA(s)]@C_n Supramolecular Complexes, *Phosphorus, Sulfur, and Silicon and the Related Elements*, 185(8), 2010,1604-1614.

- 60- Davood Nematollahi, **Avat(Arman)Taherpour**, Saeed Jameh-Bozorghi, Ailine Mansourii, Experimental and Computational Study on Electrochemical Oxidation of Catechols, *Int. J. Electrochem. Sci.*, 5 (2010) 867– 879.
- 61- **Avat(Arman)Taherpour**, Study of the Number of Rings in Carbon Nano Structures (Fullerenes and Nanotubes), *Asi. J. Chem.*, 22(1) (2010) 288– 298.
- 62- **Avat(Arman)Taherpour**, Karim Zare and Leila Bakhtiari, Theoretical and Structural Relationship Study of Electrochemical Properties of *p*-Sulfonated Calix[8]arene Macrocycles with Fullerenes as [*p*-Sulfonated Calix[8]arenes]@[C_n] Supramolecular Complexes, *J. Phys. & Theo. Chem. I.A.U. Iran*, 6(3), 2010, 199-207.
- 63- **Avat(Arman)Taherpour**, Theoretical and Quantitative Structural Relationship Study of the Electrochemical Properties of [M₂@C_x]@[SWCNT(5,5)-Armchair-C_nH₂₀] (M=Er and Sc, x=82 and 84, and n=20-300) Complexes, *J. Phys. Chem. C*, 113, 2009, 5402–5408.
- 64- **Avat(Arman)Taherpour**, Theoretical and quantitative structural relationships of the electrochemical and electron transfer properties of [M_x@C₈₂]@[SWCNT(5,5)-armchair-C_nH₂₀] (x = 0, 1; for x = 1: M = Ce & Gd and n = 20–300) nanostructure complexes, *Chemical Physics Letters*, 483 (2009) 233–240.
- 65- **Avat(Arman)Taherpour** and Omid Cheraghi, Theoretical Study of Structural Relationships and Electrochemical Properties of Supramolecular [Tetracyclines].C_n Complexes, *Fullerenes, Nanotubes and Carbon Nanostructures*, 17: 636–651, 2009.
- 66- **Avat(Arman)Taherpour**, Arezou Taherpour, Zhiva Taherpour and Omid Taherpour, Relationship study of octanol–water partitioning coefficients and total biodegradation of linear simple conjugated polyene and carotene compounds by use of the Randić' index and maximum UV wavelength, *Physics and Chemistry of Liquids*, 47(4), 2009, 349–359.
- 67- **Avat(Arman)Taherpour**, Quantitative structural relationship and theoretical study of electrochemical properties of C₆₀@[SWCN(5,5)-Armchair-C_nH₂₀] complexes, *Chemical Physics Letters*, 469 (2009) 135–139.
- 68- **Avat(Arman)Taherpour**, *et al.*, One-Pot Microwave-Assisted Solvent Free Synthesis of Simple Alkyl 1,2,3-Triazole-4-carboxylates by Using Trimethylsilyl Azide, *J. Heterocyclic Chem.*, 46, (2009) 131-133.
- 69- **Avat(Arman)Taherpour**, Structural Relationship Study of Electrochemical Properties of the Nano-Structures of *Cis*-unsaturated Thiocrown Ethers and Their Supramolecular Complexes [X-UT-Y][La@C₇₂(C₆H₃C₁₂)] Non-IPR Carbon Cage, *Fullerenes, Nanotubes and Carbon Nanostructures*, 17 (2009) 171–186.
- 70- **Avat(Arman)Taherpour**, Structural Relationship Between Degree of Unsaturation with Fermi Energy, Chemical Hardness, and The HOMO-LUMO Gap of (5,5) Armchair Single-Walled Carbon Nanotubes, *Fullerenes, Nanotubes and Carbon Nanostructures*, 17: 26–37, 2009.
- 71- **Avat(Arman)Taherpour**, Quantitative Structural Relationship Study of Electrochemical Properties on the Nano Structures of *Cis*-Unsaturated Thiocrown Ethers and Their Supramolecular Complexes [X-UT-Y] [Sc₂@C₈₄] and [X-UT-Y] [Er₂@C₈₂], *Fullerenes, Nanotubes, and Carbon Nanostructures*, 16: 142–153, 2008.

- 72- **Avat(Arman)Taherpour** and B. Rostami, One-pot Microwave-Assisted Synthesis of 2,4-Dichloroquinolines, *Asian Journal of Chemistry-AJC.*, 8 (2008) 6349-6352.
- 73- **Avat(Arman)Taherpour** and Elahe Rajaeian, Computational note on ab initio studies of 1,3-dipolar cycloaddition reactions between 7–10 membered simple cycloalkynes and nitriloxide, *Journal of Molecular Structure: THEOCHEM*, 849 (2008) 23–24.
- 74- **Avat(Arman)Taherpour** and Hosoein Maroofi, Chemical composition of the essential oil of *Thalectrum minus* L. of Iran, *Natural Product Research*, 22(2), 2008, 97–100.
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Submitted and prepared for publication:

- 1-**Avat Arman Taherpour** and Kamran Barkhordari, Theoretical and Quantitative Structural Relationship Studies of Free Energies of Electron Transfer, Electrochemical Properties and Electron Transfer Kinetic of [SWCNT(5,5)-Armchair-C_nH₂₀][La@C₇₂(C₆H₃Cl₂) Non-IPR Carbon Cage] (n=20-300) Nanostructure Complexes.
- 2-**Avat Arman Taherpour**, Free Energies of Electron Transfer, Electrochemical Properties, and Electron Transfer Kinetic Theoretical and Quantitative Structural Relationship Studies of

[La₂@C₇₂(Adamantylidene)_x][SWCNT(5,5)-Armchair-C_nH₂₀](x = 0, 1 and n=20-300) Nanostructure Complexes.

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- 5-**Avat (Arman) Taherpour** and Elahe Rajaian, Simple Structural and Mathematical Correlations of Amide Bond Resonance Forms with Calculated IR-Vibration Frequencies Data in Amide Compounds.
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- 7-**Avat (Arman) Taherpour**, Theoretical Studies of Columnar and Nematic Mesophases in Discotic Liquid Crystals with Aromatic Cores.
- 8-**Avat (Arman) Taherpour**, Sepideh Khaef, Ako Yari, Sara Nikeafshar, Mehdi Fathi, Sara Ghambari, Chemical Composition Analysis of the Essential Oil of *Mentha piperita* L. from Kermanshah-Iran by Hydrodistillation and HS/SPME Methods.
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- 10-**Avat (Arman) Taherpour** and Mahya Kiafar, One-pot microwave-assisted synthesis of Aromatic ortho- and alpha-hydroxy esters.
- 11-**Avat (Arman) Taherpour** and Mahya Kiafar, Computational studies and theoretical spectroscopy (IR, NMR, UV) of Aromatic ortho- and alpha-hydroxy esters.
- 12- M. H. Khalilian, Saber Mirzaei and **Avat (Arman) Taherpour**, Comprehensive Insights into the Structure and Coordination Behavior of Thiosemicarbazone Ligands: a Computational Assessment on E-Z Interconversion Mechanism during Coordination.
- 13- **A. A. Taherpour**, M. M. Khodaei, M. Mahmoodi, Study of Solvent Effects on Structural and Conformational Properties of Metamide Tautomers.
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Seminars and Conferences:

***توجه:**

برخی از مقالات کنفرانس های داخلی و بین المللی در این مجموعه نیامده است و تنها به برخی اشاره شده است. مجموع کل مقالات کنفرانس های داخلی و بین المللی ارایه شده ۳۲۰ عنوان تا نیمه اول ۲۰۱۵ است.

- 1-**A. A. Taherpour** and A. Jafari, Theoretical Study of Free Energies of Electrontransfer in the supramolecular complexes of Vitamin B12 with Fullerenes C_n Nanostructurs., 14th conference of Iranian Physical Chemistry, Feb. 25-28, 2011, Tehran University campus Kish International, Kish-Iran.
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- 20-**A.A. Taherpour** and A. Jafari, Theoretical Study of Free Energies of Electrontransfer in Nano Supramolecular of Vitamins B1 and B2 With Fullerenes C_n Complexes., 1st National Conference of Nano Science & Nano Technology, Feb. 16-18, 2011, Payame Noor University of Yazd, Yazd-Iran.
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- 22-**A. A. Taherpour** and L. Fathiyan, Theoretical study of Free Energies of Electron Transfer Quantitative Structural Relationship Studies of C_n@X-[HbA] (HbA=Hemoglobin A; X= α - and β -Fumarate Crosslinked Hemoglobins (α XL & β XL)) Nanostructur Complexes. 17th Organic Chemistry Seminar, Oct. 12-14, 2010, Babolsar university, Mazandaran- Iran.
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- 101-A. **A. Taherpour**, A. Najmi and S. Mahdizadeh, "*Study of Hydrogen Bonds in C6-monosaccharides by IR-Spectroscopy (Solid Phase & solution state) and SCF-MO (AM1) Calculation*", 4th Iranian Seminar of Organic Chemistry, Ferdowsi University, Mashhad, Iran, 12-14 Nov. 1996.
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- 2) **A. A. Taherpour**, K. Zareh and H. Aghaie, "*How to Use Chemical Literatures*", Publisher: I.A.U.-IRAN, May. **2002**, Tehran-IRAN.
- 3) **A. A. Taherpour**, "*Organic Chemistry (for B.S. Students)-1*", Publisher: I.A.U.-IRAN, **2004**, Arak-IRAN.
- 4) **A. A. Taherpour**, "*Organic Chemistry (for B.S. Students)-2*", Publisher: I.A.U.-IRAN, **2005**, Arak-IRAN.
- 5) **A. A. Taherpour**, "*Organic Chemistry (for B.S. Students)-3*", Publisher: I.A.U.-IRAN, **2004**, Arak-IRAN.
- 6) **A. A. Taherpour**, "*Organic Reaction Mechanisms*", Publisher: I.A.U.-IRAN, **2004**, Arak-IRAN.
- 7) **A. A. Taherpour**, "*The Rapid Interpretation of Spectral Data*", Publisher: I.A.U.-IRAN, 1st Edition, **2007**, Arak-IRAN; 2nd Edition, **2010**.
- 8) **A. A. Taherpour** and M. Abdoli, "*Medicinal Chemistry*", Publisher: I.A.U.-IRAN, **2011**, Arak-IRAN. (*In press*).
- 9) **A. A. Taherpour** and M. Malekdar, "*A Glance at Natural Products Synthesis*", Publisher: I.A.U.-IRAN, **2011**, Arak-IRAN. (*In press*).
- 10) **A. A. Taherpour** and A. Taherpour; **Writing one chapter of the book entitled: "Urinary Tract Infectious"**, In Tech-Open Access Publisher, for **2011**. (Over 3000 downloaded Chaper, 2011-2015).
- 11) **A. A. Taherpour**, A. Taherpour, Z. Taherpour and O. Taherpour; **Writing one chapter of the book entitled: "Insomnia-Barbiturates"**, In Tech-Open Access Publisher, for **2011**. (Over 2000 downloaded Chaper, 2011-2015)

Registration Invention:

- 1) Registration Invention: "Making Salt Cells of IR-Spectrophotometers", as a Successful project in Iran, 2003. (Registry Number: IRAN-1710803081-2003). (A. A. Taherpour & H. Hadadi).
- 2) Registration Invention: "Making Salt Cells of IR-Spectrophotometers", Geneva-Switzerland IFIA (International Federation on Inventors), 419-C-2003. [www.1000inventions.com].(A. A. Taherpour & H. Hadadi).

Number of Research Projects:

The numbers of individual terminated research projects are: 20.

Awards and Honours:

- 3) Outstanding Researcher, Islamic Azad University, 2002, Arak-Markazi, IRAN.
- 4) Outstanding Researcher, Islamic Azad University, 2002, Sanandaj-Kurdistan, IRAN.
- 5) Prize for book entitled: "*How to Use Chemical Literature*", Publisher: I.A.U.-IRAN, May, 2002, Tehran-IRAN.
- 6) Superior Researcher, Markazi Province of IRAN, 2003, Arak, IRAN.
- 7) Superior Researcher, Islamic Azad University, IRAN, 2003, Arak-Markazi Province, IRAN.
- 8) Superior Researcher, Islamic Azad University, IRAN, 2003, Sanandaj-Kurdistan Province, IRAN.
- 9) Superior Researcher, Markazi Province of IRAN, 2005, Arak, IRAN.
- 10) Superior Researcher, Islamic Azad University, 2005, West Universities of Country, Sanandaj, Kurdistan Province-IRAN.
- 11) Superior Researcher, Markazi Province of IRAN, 2007, Arak, IRAN.
- 12) Superior Researcher, Zone-5 of Islamic Azad University, IRAN, 2007, Zone-5, IRAN.
- 13) Superior Researcher in IRAN in Islamic Azad Universities, 2007, IRAN.
- 14) Superior Researcher and Academic Member in Science and Technology, Markazi Province of IRAN, 2007, Arak, IRAN.
- 15) One of the 100 Superior Researcher Nano Technology Sciences, IRAN, 2008.
- 16) Superior Researcher and Academic Member in Science and Technology, Markazi Province of IRAN, 2008, Arak, IRAN.
- 17) Superior Researcher, Islamic Azad University, IRAN, 2008, Sanandaj-Kurdistan Province, IRAN.
- 18) Superior Researcher and Academic Member in Science and Technology, Kurdistan Province of IRAN, 2008, Sannandaj, IRAN.
- 19) Superior Researcher, Islamic Azad University, IRAN, 2009, Sanandaj-Kurdistan Province, IRAN.
- 20) One of the 100 Superior Researcher Nano-Technology Sciences, IRAN, 2009.
- 21) Superior Researcher, Islamic Azad University, 2009, IRAN.
- 22) Superior Researcher, Universities of IRAN, *Science, Research and Technology Ministry of Iran*, 2009, IRAN.
- 23) Superior Researcher, Markazi Province of IRAN, 2010, Arak, IRAN.
- 24) Superior researcher with more progress in nanotechnology research, 5th Nanotechnology Festival of IRAN, 2010, IRAN.
- 25) Selection of two (2) papers as 2 Tope papers by "BioMedLib-The top 10 articles published", www.BioMedLib.com, 2011.
- 26) Superior Researcher, *1st Research, Scientific & Technological Festival of the Islamic Azad University*, Research and Technology Vice of I.A.U., 2011, Tehran-IRAN.

- تقدیر شده از سوی بنیاد ملی نخبگان به عنوان یکی از ۳۰ استاد تمام (پروفسور) استان کرمانشاه.
- عضو کمیته تدوین چند استنادار د ملی صنعتی-ایران.
- رتبه اول برگزیدگان مسابقه ایده برتر (هفته پژوهش ۱۳۹۴) دانشگاه علوم پزشکی کرمانشاه.

● کارشناس رسمی استاندارد- شیمی و صنایع شیمیایی (سازمان ملی استاندارد ایران).

Number of the Papers in Iranian(Persian) Journals:

27 papers in Persian language.

برخی عناوین :

عنوان مقالات منتشر شده در نشریات داخلی :

- 1- آوات(آرمان)طاهرپور : "نگاهی به سرگذشت بیماری ها و ویتامین ها"- اطلاعات علمی- شماره ۲۵-۱۳۶۹.
- 2- آوات(آرمان)طاهرپور "شیمی در خدمت پزشکی"- مجله رشدشیمی- شماره ۱۶-۱۳۶۹.
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- 6- آوات(آرمان)طاهرپور "حقایق بهتر از توهمات هستند"- مجله رشدشیمی- ۱۳۷۵.
- 7- آوات(آرمان)طاهرپور "مروری بر عوامل شیمیایی"- مجله پژوهشیار- ۱۳۷۶.
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- 06- آوات(آرمان)طاهرپور "آفند و پدافند شیمیایی"- مجله پژوهشیار- ۱۳۷۷.
- 11- آوات(آرمان)طاهرپور "سطوح سه بعدی انرژی برای تبدیل صورتبندی های سیکلوهگزان"- مجله شیمی مرکز نشر دانشگاهی- ۱۳۷۷.
- 12- آوات(آرمان)طاهرپور "مروری بر باکی بال ها-خواص کاربرد آنها"- نشریه پژوهشی دانشگاه آزاد اسلامی اراک- ۱۳۷۷.
- 13- آوات(آرمان)طاهرپور "نگرشی بر متون رایج شیمی"- مجله پژوهشیار- ۱۳۷۷.
- 14- آوات(آرمان)طاهرپور "افت تحصیلی-بررسی علل و چگونگی و ایجاد انگیزش تحصیلی"- مسابقه مقاله نویسی دانشگاه اصفهان- ۱۳۶۹.
- 15- آوات(آرمان)طاهرپور "کاربرد نظریه گراف در شیمی"- دانشگاه آزاد اسلامی اراک- 1384.
- 16- آوات(آرمان)طاهرپور "الگوها و مولکولها-کارگاه ایزومرهای فضایی"- مجله شیمی مرکز نشر دانشگاهی- ۱۳۷۸.
- 17- آوات(آرمان)طاهرپور "اساس نظم مولکولی ترکیبات زیستی و پیوندهای هیدروژنی امید-آمید"- نشریه پژوهشی دانشگاه آزاد اسلامی اراک- ۱۳۷۸.
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