Personal Info.:

Name: Masood Hamadanian

Date & Place of Birth: June 10, 1969, Khomeini Shahr

Nationality: Iranian

Address: Department of Physical Chemistry, Faculty of Chemistry,

University of Kashan, Km. 6, Ravand Road, Kashan, Isfahan, I.R. IRAN

Zip Code: 8731753153 **Tel.:** +98-31-55912382 **Fax:** +98-31-55912937

E-Mail: hamadani@kashanu.ac.ir, hamadanim@gmail.com

Education:

1988-1992: B.Sc. Studies in Chemistry (Applied Chemistry)

Department of Chemistry, Faculty of Science, University of Isfahan, Isfahan, I.R. IRAN

1992-1994: M.Sc. Studies in Chemistry (Physical Chemistry)

Title: Photocatalytic Reaction of Heavy Alcohol and Potassium Cyanide by using of Metals Coating on Titanium Dioxide (IV)

Department of Chemistry, Faculty of Science, University of Isfahan, Isfahan, I.R. IRAN

1994-1999: ***Ph.D. Studies in Chemistry (Quantum Chemistry)***

Title: Description of One- and Two-Electron Orbital (Doublet & Triplet State) and Comulated Double Bond in Molecules by FSGO Method

Department of Chemistry, Faculty of Science, University of Shiraz, Shiraz, I.R. IRAN

Research Interests:

1- Computational Quantum Chemistry & Nano Science
2- Nano Photo-Catalyst
3- Dye Sensitized Solar Cell
4- Nanocomposite
5- Hydrogen Storage
6- Super capacity Nanomaterial

Work Experience:

1993-1998: Branch of Shahreza, Islamic Azad University, Shahreza, I.R. IRAN

1994-1998: Branch of Isfahan, Payam-e-Noor University, Isfahan, I.R. IRAN

1999-2007: Branch of Delijan, Payam-e-Noor University, Delijan, I.R. IRAN

2000-2010: Assistant Professor of Physical Chemistry, University of Kashan, Kashan, I.R. IRAN.

2011-2015: Associate Professor of Physical Chemistry, University of Kashan, Kashan, I.R. IRAN

2016-Now: Professor of Physical Chemistry, University of Kashan, Kashan, I.R. IRAN

Management Experience:

2000-2003: Head of Essence Research Center, University of Kashan, Kashan, I.R. IRAN

2004-2005: Head of Nano research Group, University of Kashan, Kashan, I.R. IRAN

2007-2009: Chief of Institute of Nano Science and Nano Technology, University of Kashan, I.R. IRAN

2019-2023: Chief of Institute of Nano Science and Nano Technology, University of Kashan, I.R. IRAN

Honors:

2022, A researcher ranked among the top 2% of world scientists in the main topics indexed by SCOPUS

2021, A researcher ranked among the top 2% of world scientists in the main topics indexed by SCOPUS

2020, Distinguished Researcher, Institute of Nano Science and Nano Technology, University of Kashan

2018, Distinguished Researcher, Faculty of Chemistry, University of Kashan

2016, Distinguished Researcher, Faculty of Chemistry, University of Kashan

2016, Distinguished Teacher, Faculty of Chemistry, University of Kashan

2014, Distinguished Researcher, Faculty of Chemistry, University of Kashan

2012, Distinguished Researcher, Faculty of Chemistry, University of Kashan

2012, Distinguished Teacher, Faculty of Chemistry, University of Kashan

2011, Distinguished Teacher, Faculty of Chemistry, University of Kashan

2010, Distinguished Teacher, Faculty of Chemistry, University of Kashan

2009, Distinguished Researcher, Institute of Nano-Science and Nanotechnology, University of Kashan

2007, Distinguished Teacher, Faculty of Science, University of Kashan

1994, Rank 1, M.Sc students of chemistry, University of Isfahan

1992, Rank 3, B.Sc Iranian students of. Pure and applied chemistry, First Iranian Olympiad

1992, Rank 1, B.Sc students of. Pure and applied chemistry, University of Isfahan

Teaching Experience

Undergraduate	***Postgraduate***	***PhD***
General Chemistry I & II	Advanced Physical Chemistry	Quantum Chemistry III
Physical Chemistry I & II	Kinetic Chemistry	Non Reversible Thermodynamic
Phys. Chem. of Engineering	Statistical Mechanic & Thermodynamic	Advanced Molecular Spectroscopy II
Quantum Chemistry	Quantum Chemistry II	Advanced Statistical Chemistry
Molecular Spectroscopy	Advanced Molecular Spectroscopy I	Nano-Thermodynamic
Heat and Thermodynamics	Computational Nano Science	Nano-Catalyst
Computer in Chemistry	Statistical Mechanic in Small Systems	
Phys. Chem. I & II Lab.		
Phys. Chem. Eng. Lab.		
Graphic		

Publications:

A) Book

1- M. Oftadeh and **M. Hamadanian**, "General Chemistry in Laboratory", Sama ghalam Ltd., 2006.

2- M. Salavati-Niassari, **M. Hamadanian**, A. Majedi and Z. Fereshteh, "NanoCatalyst", Elm-o-Danesh Ltd., 2009.

3- T. Mazochi, **M. Hamadanian**, V. Jabbari, "Application of Polymer Nanofibers in Stem Cell Tissue Engineering", Morasal Ltd., 2011

B) Journal Papers

150- V. Rahimkhoei, **M. Hamadanian**, M. Salavati-Niasari, "Sol-gel auto-combustion synthesis and characterization of Eu_2CrMnO_6 nanostructures as a potential electrochemical hydrogen storage material", *International Journal of Hydrogen Energy*, 12 (2025) 247-259.

149- S. Mehdigholami, **M. Hamadanian**, M.R. Memarzadeh, "Improving the electrochemical performance of supercapacitors through the use of NiO/Ag–TiO_2 ternary nanocomposite: synthesis, characterization, and performance evaluation", *Journal of Materials Science: Materials in Electronics*, 35(36) (2024) 2303.

148- M. Mahdipour, M. Esmaeili-Zare, **M. Hamadanian**, "Modification of solar energy and photoelectrochemical water splitting properties: using FTO/Er-TiO_2/$MAPbI_3$/CuPc/Au as modified photoelectrode", *Physica Scripta*, 99(11) (2024) 115528.

147- N. Alimirzaie, **M. Hamadanian**, "Enhancing Epoxy's Thermal and Mechanical Properties in a Multi-Phase Nanocomposite (EP/PVAc/CT-CS/CF)", *Journal of Nanostructures*, 14(4) (2024) 1211-1224.

146- E. Shahrousvand, M. **Hamadanian**, M.H. Keshavarz, "A general method for assessment of glass transition temperature of polymeric materials only from various structural factors in their repeating unit structure", *Materials Today Communications*, 38 (2024) 108405.

145- M. Aghili, M. Barati, and **M. Hamadanian**, "Supercritical microalgae conversion to biofuel and value-added components (oxygenates, hydrocarbons, and aromatics): A catalyst characterization study", *Environmental Progress & Sustainable Energy*, 43(3) (2024) e14326.

144- **M. Hamadanian**, M. Keshavarz, and E. Shahrousvand, "The reliable predicting refractive index for diverse polymers only from structural moieties in repeating unit structures", *Materials Today Communications*, 35 (2023) 105823.

143- S Katebi Koushali and **M Hamadanian, "**Improvement of Neurite Outgrowth in PC12 Cells by TiO_2, Au/TiO_2 and Ag/TiO_2 Nanoparticles", *Journal of Nanostructures* 13 (2023), 325-340.

142- M. Hassanpour, **M. Hamadanian**, Omid Amiri, S.A. Hosseini Tafreshi, and M. Salavati-Niasari, "Sonochemical synthesis and characterization of aluminum tungsten oxide nanoparticle and study its impact on the growth of microalga", *Arabian Journal of Chemistry* 15 (2022) 103671.

141- S. Moshtaghi, **M. Hamadanian** and M. Salavati-Niasari, "A simple hydrothermal route for the preparation of novel Na–Y–W nano-oxides and their application in dye degradation", *RSC Adv.* 12 (2022) 4913-4923.

140- S. Moshtaghi, **M. Hamadanian**, Omid Amiri, M. Goli, M. Salavati-Niasari, "Controllable synthesis and characterization of Mg_2SiO_4 nanostructures via a simple hydrothermal route using carboxylic acid as capping agent and their photocatalytic performance for photodegradation of azo dyes", *RSC Adv.* 11 (2021) 21588-21599.

139- M.H. Hadizadeh and **M. Hamadanian**, "Evaluation of corrosion inhibition efficiency of some novel Schiff bases through a proposed QSAR model: DFT investigations supported by weight loss technique", *International Journal of Corrosion and Scale Inhibition* 10 (2021) 1516–1530.

138- M. Hassanpour, S.A. Hosseini Tafreshi, O. Amiri, **M. Hamadanian**, M. Salavati-Niasari, "Toxicity of Nd_2WO_6 nanoparticles to the microalga Dunaliella salina: synthesis of nanoparticles and investigation of their impact on microalgae", *RSC Adv.* 11 (2021) 27283–27291.

137- F. Fotouhi-Far, H. Bashiri, **M. Hamadanian**, M.H. Keshavarz, "A New Approach for the Leaching of Palladium from Spent Pd/C Catalyst in $HCl–H_2O_2$ System", *Protection of Metals and Physical Chemistry of Surfaces* 57(2) (2021) 297–305.

136- M. Ashraf, **M, Hamadanian**, A.R. Ghasemi, "Epoxy/Polyethylene Glycol/TiO_2: Design, Fabrication and Investigation of Mechanical Properties, Thermal Cycling Fatigue and Antibacterial Activity", *Journal of Polymers and the Environment* 29 (2021) 3867–3877.

135- S. Katebi Koushali, **M. Hamadanian**, A.R. Ghasemi, M. Ashrafi, "Investigation of Mechanical Properties of Polyester/Polyethylene Glycol/TiO_2 Nanocomposites", *J. Nanostruct.* 11(1) (2021) 38-47.

134- M. Sarafrazi, A.R. Ghasemi, **M. Hamadanian**, "Optimization of Curing Conditions and Effect of Plasticizer Amount on the Mechanical and thermal Properties of Epoxy resin", *Iran J. Polym. Sci. Tech.* 33(6) (2021) 479-495.

133- M. Sarafrazi, A.R. Ghasemi, **M. Hamadanian**, "A Semi-analytical and Experimental Approach Using Molecular Dynamic Simulation for Thermo-mechanical Properties of Surface Functionalized Epoxy/Polyurethane/MWCNT/$ZnMoO_4$ Nanocomposites", *Fibers and Polymers* 22(8) 2021 2306-2315.

132- M. Hassanpour, S.A. Hosseini Tafreshi, M. Salavati-Niasari, **M. Hamadanian**, "Toxicity evaluation and preparation of $CoWO_4$ nanoparticles towards microalga Dunaliella salina", *Environ. Sci. Pollut. Res.* 28 (2021) 36314–36325.

131- A. Takari, A.R. Ghasemi, **M. Hamadanian**, M. Sarafrazi, A. Najafidoust, "Molecular dynamics simulation and thermo-mechanical characterization for optimization of three-phase epoxy/TiO_2/SiO_2 nano-composites", *Polymer Testing* 93(2021) 106890.

130- A. Fathollahi Zonouz, M. Ashrafi, M. Ghiyasiyan-Arani, **M. Hamadanian**, "Effect of sol–gel synthesized $Al_{0.1}Zr_{0.9}O_{1.95}$ nanoparticles and PVP on PVDF-based separators in lithium-ion battery performance: The RSM study", *Journal of Elastomers & Plastics* 53(3) (2021) 241–257.

129- S. Khademi, **M. Hamadanian**, B. Roozbehani, N. Khademi, "Synthesis and characterization of high flux and antibacterial film nanocomposite based on epoxy-zeolite NaA", *Journal of Nanostructures* 10 (2020) 177-184.

128- M. Sarafrazi, A.R. Ghasemi, **M. Hamadanian**, "Synergistic effect between $CuCr_2O_4$ nanoparticles and plasticizer on mechanical properties of EP/PU/$CuCr_2O_4$ nanocomposites: Experimental approach and molecular dynamics simulation", *Journal of Applied Polymer Science*, 137 (46) (2020) 49425.

127- M. Hassanpour, S.A. Hosseini Tafreshi, O. Amiri, **M. Hamadanian**, M. Salavati-Niasari, "Toxic effects of Fe_2WO_6 nanoparticles towards microalga Dunaliella salina: Sonochemical synthesis nanoparticles and investigate its impact on the growth", *Chemosphere*, 258 (2020) Article 127348.

126- M. Aghilinategh, M. Barati, **M. Hamadanian**, "The modified supercritical media for one-pot biodiesel production from Chlorella vulgaris using photochemically-synthetized $SrTiO_3$ nanocatalyst", *Renewable Energy*, 160 (2020) 176-184.

125- S. Mirsafai, K. Torabi, M. Ashrafi, **M. Hamadanian**, "Tensile strength and elongation of NBR/PVC/$CuFe_2O_4$ magnetic nanocomposites: a response surface methodology optimization", *Bulletin of Materials Science*, 43 (2020) Article number 101.

124- N. Shabani, A.R. Ghasemi, **M. Hamadanian,** "Ultrasonic-assisted rapid preparation of three-phase nanocomposites: The effects of zinc manganite nanoparticles and polyurethane on the thermomechanical, physicochemical, and antibacterial properties of polymer matrix composites", *Journal of Elastomers & Plastics*, 52 (7) (2020) 620-644.

123- Pourya Mehdizadeh, Z. Tavangar, N. Shabani, **M. Hamadanian**, "Visible light activity of nitrogen-doped TiO_2 by sol-gel method using various nitrogen sources", *Journal of Nanostructures*, 10(2) (2020) 307-316.

122- S. Tahmasebi, Z. Tavangar, **M. Hamadanian**, "Using of Artemesia Absinthinum, Verbascum Thapsus, Viola Odorata, Matricaria Chamomilla and Corianderum Satirum Natural Dyes in Making Dyesensitized Solar Cells", *Advanced Materials & Novel Coatings*, 32 (2020) 2346-2356.

121- S.K. Nasiri, A. Reisi-Vanani, **M. Hamadanian,** "Molecular Structure, Spectroscopic, Local and Global Reactivity Descriptors and NBO Analysis of $C_{32}H_{12}$: A New Buckybowl and Sub-Fullerene Structure", *Polycyclic Aromatic Compounds* 40(3) (2020) 693-704.

120- H. Mohammad-Salehi, **M. Hamadanian**, H. Safardoust-Hojaghan, "Visible-Light Induced Photodegradation of Methyl Orange via Palladium Nanoparticles Anchored to Chrome and Nitrogen Doped TiO_2 Nanoparticles", *Journal of Inorganic and Organometallic Polymers and Materials* 29 (2019) 1457–1465.

119- A. Abbasi, **M. Hamadanian**, T. Gholami, M. Salavati-Niasari, N. Sadri, "Facile preparation of $PbCrO_4$ and $PbCrO_4$/Ag nanostructure as an effective photocatalyst for degradation of organic contaminants", *Separation and Purification Technology* 209 (2019) 79-87.

118- H. Sayahi, F. Mohsenzadeh, **M. Hamadanian,** "Cost-effective fabrication of perdurable electrodeposited TiO_2 nano-layers on stainless steel electrodes applicable to photocatalytic degradation of methylene blue", *Research on Chemical Intermediates* 45 (2019) 4275-4286.

117- M Ashrafi, AR Ghasemi, **M Hamadanian**, "Optimization of thermo-mechanical and antibacterial properties of epoxy/polyethylene glycol/MWCNTs nano-composites using response surface methodology and investigation thermal cycling fatigue", *Polymer Testing* 78 (2019) 105946.

116- M. Ashrafi, **M. Hamadanian**, A.R. Ghasemi, F. Jookar-Kashi, "Improvement Mechanical and Antibacterial Properties of Epoxy by Polyethylene Glycol and Ag/CuO Nanoparticles", *Polymer composites* (2019) 3393-3401.

115- M. Sarafrazi, **M. Hamadanian**, A.R. Ghasemi, "Optimize epoxy matrix with RSM/CCD method and influence of multi-wall carbon nanotube on mechanical properties of epoxy/polyurethane", *Mechanics of Materials* 138 (2019) 103154.

114- M. Rotami, **M. Hamadanian**, M. Rahimi-Nasrabadi, M.R. Ganjali, "Sol–gel preparation of metal and nonmetal-codoped TiO_2–graphene nanophotocatalyst for photodegradation of MO under UV and visible-light irradiation", *Ionics* 25 (2019) 1869-1878.

113- M. Ashrafi, **M. Hamadanian**, S. Mirsafai, K. Torabi, "Investigation and Optimization of Mechanical Properties of Nitrile-Butadiene Rubber/Polyvinyl Chloride/$NiFe_2O_4$ Nanocomposite", *Fibers and Polymers* 20 (2019) 2247-2253.

112- A. Dourani, M. Haghgoo, **M. Hamadanian,** "Multi-walled carbon nanotube and carbon nanofiber/polyacrylonitrile aerogel scaffolds for enhanced epoxy resins", *Composites Part B: Engineering* 176 (2019) 107299.

111- A. Abbasi, S.M.S. Sajadi, O. Amiri, **M. Hamadanian**, H. Moayedi, M. Salavati-Niasari, M. Mohammad Beigi, "$MgCr_2O_4$ and $MgCr_2O_4$/Ag nanostructures: Facile size-controlled synthesis and their

photocatalytic performance for destruction of organic contaminants", *Composites Part B: Engineering* 175 (2019) 107077.

110- M. Aghilinategh, M. Barati, **M. Hamadanian,** "Supercritical methanol for one put biodiesel production from chlorella vulgaris microalgae in the presence of CaO/TiO_2 nano-photocatalyst and subcritical water", *Biomass and Bioenergy* 123 (2019) 34-40.

109- M.P. Mazhari, **M. Hamadanian**, M. Mehipour, V. Jabbari, "Central composite design (CCD) optimized synthesis of Fe_3O_4@ SiO_2@ AgCl/Ag/Ag_2S as a novel magnetic nano-photocatalyst for catalytic degradation of organic pollutants", *Journal of environmental chemical engineering* 6 (2018) 7284-7293.

108- M. Sarsabili, R. Rahmatolahzadeh, S.A. Shobeiri, **M. Hamadanian**, A. Farazin, K. Khezri, "Reverse atom transfer radical random copolymerization of styrene and methyl methacrylate in the presence of diatomite nanoplatelets", *Polymers for Advanced Technologies* 29 (2018) 424-432.

107- A. Abbasi, H. Khojasteh, **M. Hamadanian**, M. Salavati-Niasari, "Normal spinel $CdCr_2O_4$ and $CdCr_2O_4$/Ag nanocomposite as novel photocatalysts, for degradation of water contaminates", *Separation and Purification Technology* 195 (2018) 37-49.

106- M. Hassanpour, ,M. Salavati-Niasari, S.A. Mousavi, H. Safardoust-Hojaghan, **M. Hamadanian**, "CeO_2/ZnO ceramic nanocomposites, synthesized via microwave method and used for decolorization of dye", *Journal of Nanostructures* 8 (2018) 97-106.

105- S.A. Mousavi, M. Hassanpour, M. Salavati-Niasari, H. Safardoust-Hojaghan, **M. Hamadanian,** "Dy_2O_3/CuO nanocomposites: microwave assisted synthesis and investigated photocatalytic properties", *Journal of Materials Science: Materials in Electronics* 29 (2018) 1238-1245.

104- N. Shabani, **M. Hamadanian**, A.R. Ghasemi, M. Sarafrazi, "Physicochemical and Mechanical Properties of Epoxy/Polyurethane/Nickel Manganite Nanocomposite: A Response Surface Methodology/Central Composite Designs Study", *Journal of Inorganic and Organometallic Polymers and Materials* 28 (2018) 2689-2700.

103- R. Rahmatolahzadeh, **M. Hamadanian**, H. Shagholani, S.R. Moosavikia, "Synthesis of Au/SiO_2 Nanoparticles with Highly Porous Structure as a pH-Sensitive Targeting Drug Carrier", *Journal of Inorganic and Organometallic Polymers and Materials* 28 (2018) 187-194.

102- M.P. Mazhari, **M. Hamadanian,** "Preparation and Characterization of Fe_3O_4@SiO_2@TiO_2 and Ag/Fe_3O_4@SiO_2@TiO_2 Nanocomposites for Water Treatment: Process Optimization by Response Surface Methodology", *Journal of Electronic Materials* 47 (2018) 7484-7496.

101- R. Rahmatolahzadeh, **M. Hamadanian**, L. Ma'mani, A. Shafiee, "Aspartic acid functionalized PEGylated MSN@GO hybrid as an effective and sustainable nano-system for in-vitro drug delivery", *Advances in medical sciences* 63 (2018) 257-264.

100- A. Abbasi, **M. Hamadanian**, M. Salavati-Niasari, M.P. Mazhari, "Hydrothermal synthesis, characterization and photodegradation of organic pollutants of $CoCr_2O_4$/Ag nanostructure and thermal stability of epoxy acrylate nanocomposite", *Advanced Powder Technology* 28 (2017) 2756-2765.

99- R. Rahmatolahzadeh, **M. Hamadanian**, L. Ma'mani, A. Shafiee, "Synthesis and characterization of pH-responsive nanocarrier based on PEGylated imidazolium ionic liquid MSN@GO for in-vitro curcumin delivery", *Research journal of pharmaceutical biological and chemical sciences* 8 (2017) 1317-1328.

98- F. Fotouhi-Far, H. Bashiri, **M. Hamadanian,** "Study of Deactivation of $Pd(OH)_2$/C Catalyst in Reductive Debenzylation of Hexabenzylhexaazaisowurtzitane", *Propellants, Explosives, Pyrotechnics* 42 (2017) 213-219.

97- A. Dourani, M. Haghgoo, **M. Hamadanian**, R.M. Aghdam, "Effect of Carbon Nanotube Loading on Mechanical and Thermal Properties of Pure and Pyrolyzed Polyacrylonitrile Aerogel", *Journal of Nanoscience and Nanotechnology* 17 (2017) 2959-2969.

96- **M. Hamadanian**, M. Rostami, V. Jabbari, "Graphene-supported C–N–S tridoped TiO_2 photo-catalyst with improved band gap and charge transfer properties", *Journal of Materials Science: Materials in Electronics* 28 (2017) 15637-15646.

95- M. Salavati-Niasari, F. Soofivand, A. Sobhani-Nasab, M. Shakouri-Arani, **M.Hamadanian**, S. Bagheri, "Facile synthesis and characterization of $CdTiO_3$ nanoparticles by Pechini sol–gel method", *Journal of Materials Science: Materials in Electronics* 28 (2017) 14965-14973.

94- S. Mortazavi-Derazkola, M. Salavati-Niasari, M.P. Mazhari, H. Khojasteh, **M. Hamadanian**, S. Bagheri, "Magnetically separable Fe_3O_4@SiO_2@TiO_2 nanostructures supported by neodymium(III): fabrication and enhanced photocatalytic activity for degradation of organic pollution", *Journal of Materials Science: Materials in Electronics* 28 (2017) 14271-14281.

93- A. Abbasi, **M. Hamadanian**, M. Salavati-Niasari, S. Mortazavi-Derazkola, "Facile size-controlled preparation of highly photocatalytically active $ZnCr_2O_4$ and $ZnCr_2O_4$/Ag nanostructures for removal of organic contaminants", *Journal of colloid and interface science* 500 (2017) 276-284.

92- F. Fotouhi-Far, H. Bashiri, **M. Hamadanian**, M.H. Keshavarz, "Increment of activity of $Pd(OH)_2$/C catalyst in order to improve the yield of high performance 2,4,6,8,10,12-hexanitrohexaazaisowurtzitane (HNIW)", *Inorganic and Nano-Metal Chemistry* 47 (2017) 1489-1494.

91- Z. Tavangar, **M. Hamadanian**, H. Basharnavaz, "Studying the effects of the configuration of doped Al atoms on the conductive properties of boron nitride nanotube using density functional theory", *Chemical Physics Letters* 669 (2017) 29-37.

90- H.A. Rafiee-Pour, **M. Hamadanian**, S. Katebi-Koushali, "Nanocrystalline TiO_2 films containing sulfur and gold: Synthesis, characterization and application to immobilize and direct electrochemistry of cytochrome c", *Applied Surface Science* 363 (2016) 604-612.

89- F. Fotouhi-Far, H. Bashiri, **M. Hamadanian**, M.H. Keshavarz, "A New Method for Assessment of Performing Mechanical Works of Energetic Compounds by the Cylinder Test", *Journal of Inorganic and General Chemistry,* 642 (2016) 1086-1090.

88- H. Khojasteh, M. Salavati-Niasari, M.P. Mazhari, **M. Hamadanian**, "Preparation and characterization of Fe_3O_4@SiO_2@TiO_2@Pd and Fe_3O_4@SiO_2@TiO_2@Pd–Ag nanocomposites and their utilization in enhanced degradation systems and rapid magnetic separation", *RSC Advances* 6 (2016) 78043-78052.

87- V. Jabbari, **M. Hamadanian**, M. Shamshiri, D. Villagrán, "Band gap and Schottky barrier engineered photocatalyst with promising solar light activity for water remediation", *RSC Advances* 6 (2016) 15678-15685.

86- **M. Hamadanian**, M.H. Keshavarz, B. Nazari, M. Mohebbi, "Reliable method for safety assessment of melting points of energetic compounds", *Process Safety and Environmental Protection* 103 (2016) 10-22.

85- J. Safaei-Ghomi, R. Masoomi, **M. Hamadanian**, S. Naseh, "Magnetic nanoscale core–shell structured Fe_3O_4@ l-proline: an efficient, reusable and eco-friendly nanocatalyst for diastereoselective synthesis of fulleropyrrolidines", *New Journal of Chemistry* 40 (2016) 3289-3299.

84- **M. Hamadanian**, S. Karimzadeh, V. Jabbari, D. Villagrán, "Synthesis of cysteine, cobalt and copper-doped TiO_2 nanophotocatalysts with excellent visible-light-induced photocatalytic activity", *Materials Science in Semiconductor Processing* 41 (2016) 168-176.

83- **M. Hamadanian**, Z. Tavangar, S. Naseh, "The modification of benzene adsorption on zigzag single-wall carbon nanotubes by carboxylation", *Materials Research Express* 3 (2016) 125010

82- Z. Tavangar, **M. Hamadanian**, H. Basharnavaz, "Variation of the electronic properties of zigzag boron nitride nanotubes by Al-doping: a DFT study", *Molecular Physics* 114 (2016) 2936-2943.

81- G. Kianpour, F. Soofivand, M. Badiei, M. Salavati-Niasari, **M. Hamadanian,** "Facile synthesis and characterization of nickel molybdate nanorods as an effective photocatalyst by co-precipitation method", *Journal of Materials Science: Materials in Electronics* 27 (2016) 10244-10251.

80- S. Ayni, M. Sabet, M. Salavati-Niasari, **M. Hamadanian,** "Synthesis and characterization of cerium molybdate nanostructures via a simple solvothermal method and investigation of their photocatalytic activity", *Journal of Materials Science: Materials in Electronics* 27 (2016) 7342-7352.

79- A. Abbasi, H. Khojasteh, **M. Hamadanian**, M. Salavati-Niasari, "Synthesis of $CoFe_2O_4$ nanoparticles and investigation of the temperature, surfactant, capping agent and time effects on the size and magnetic properties", *Journal of Materials Science: Materials in Electronics* 27 (2016) 4972-4980.

78- A. Abbasi, D. Ghanbari, M. Salavati-Niasari, **M. Hamadanian,** "Photo-degradation of methylene blue: photocatalyst and magnetic investigation of Fe_2O_3–TiO_2 nanoparticles and nanocomposites", *Journal of Materials Science: Materials in Electronics* 27 (2016) 4800-4809.

77- S. Zinatloo-Ajabshir, M. Salavati-Niasari, **M. Hamadanian,** "Preparation of nanocrystalline praseodymium oxide with different shapes via a simple thermal decomposition route", *Journal of Materials Science: Materials in Electronics* 27 (2016) 998-1006.

76- T. Gholami, M. Bazarganipour, M. Salavati-Niasari, N. Mir, **M. Hamadanian**, S. Bagheri, "Considering the effect of a ligand as new complexing agent in the characteristics of TiO_2 nanoparticles", *Journal of Molecular Liquids* 215 (2016) 467-471.

75- V. Jabbari, **M. Hamadanian**, S. Karimzadeh, D. Villagrán, "Enhanced charge carrier efficiency and solar light-induced photocatalytic activity of TiO_2 nanoparticles through doping of silver nanoclusters and C–N–S nonmetals", *Journal of industrial and engineering chemistry* 35 (2016)132-139.

74- Z. Mousavi, M. Salavati-Niasari, F. Soofivand, M. Esmaeili-Zare, **M. Hamadanian,** "Synthesis and characterization of hydrophilic and semiconductor cadmium chromite nanostructures", *Journal of Electronic Materials* 45 (2016) 5739-5745.

73- B. Nazari, M.H. Keshavarz, **M. Hamadanian**, S. Mosavi, A.R. Ghaedsharafi, H.R. Pouretedal, "Reliable prediction of the condensed (solid or liquid) phase enthalpy of formation of organic energetic materials at 298 K through their molecular structures", *Fluid Phase Equilibria* 408 (2016) 248-258.

72- B. Nazari, **M. Hamadanian**, M.H. Keshavarz, J. Rezaei, "New method for assessment of melting points of organic azides using their molecular structures", *Fluid Phase Equilibria* 427 (2016) 27-34.

71- S. Nasiri-Kokhdan, A. Reisi-Vanani, **M. Hamadanian,** "Ab initio and TD-DFT study of the structural and spectroscopic properties of C30H10 as a new buck bowl", *Fullerenes, Nanotubes and Carbon Nanostructures* 24 (2016) 577-587.

70- A. Reisi-Vanani, **M. Hamadanian**, S. Nasiri-Kokhdan, "Functionalization of the sumanene by nitrous oxide: A mechanistic study", *Computational and Theoretical Chemistry* 1082 (2016) 49-57.

69- A. Reisi-Vanani, **M. Hamadanian**, S. Nasiri-Kokhdan, "Comprehensive theoretical study of the phenyl azide addition onto armchair (5, 5) single wall carbon nanotube", *Computational and Theoretical Chemistry* 1075 (2016) 38-46.

68- **M. Hamadanian**, Z. Tavangar, S. Naseh, "Improvement of electronic properties of carboxylated zigzag single wall carbon nanotubes by interaction with benzene derivatives", *Current Applied Physics* 15 (2015) 1593-1598.

67- V. Jabbari, **M. Hamadanian**, A. Reisi-Vanani, P. Razi, S. Hoseinifard, D. Villagr´an, "In, V-codoped TiO_2 nanocomposite prepared via a photochemical reduction technique as a novel high efficiency visible-light-driven nanophotocatalyst", *RSC Advances* 5 (2015) 78128-78135.

66- A. Dourani, **M. Hamadanian**, M. Haghgoo, M.R. Jahannama, H. Goudarzi, "Morphology and electrical properties of multi-walled carbon nanotube/carbon aerogel prepared by using polyacrylonitrile as precursor", *RSC Advances* 5 (2015) 49944-49952.

65- S. Zinatloo-Ajabshir, M. Salavati-Niasari, **M. Hamadanian,** "Praseodymium oxide nanostructures: novel solvent-less preparation, characterization and investigation of their optical and photocatalytic properties", *RSC Advances* 5 (2015) 33792-33800.

64- M. Shabani-Nooshabadi, M. Behpour, F.S. Razavi, **M. Hamadanian**, V. Nejadshafiee, "Study of N-benzylidene derivatives synthesized as corrosion inhibitors for copper in HCl solution", *RSC Advances* 5 (2015) 23357-23366.

63- A. Ehteram, **M. Hamadanian**, V. Jabbari, "Fabrication of Novel High Potential Chromium-Doped TiO_2 Nanoparticulate Electrode-based Dye-Sensitized Solar Cell (DSSC)", *Journal of Nanostructures* 5 (2015) 443-453.

62- L. Nejaty-Moghadam, A. Esmaeili-Bafghi-Karimabad, S. Gholamrezaei, **M. Hamadanian**, M. Salavati-Niasari, "Facile synthesis of GeO_2 nanostructures and measurement of photocatalytic, photovoltaic and photoluminescence properties", *Journal of Materials Science: Materials in Electronics* 26 (2015) 6386-6394.

61- **M. Hamadanian**, M.H. Keshavarz, B. Nazari, M. Mohebbi, "Simple approach for prediction of melting points of organic molecules containing hazardous peroxide bonds", *Journal of The Iranian Chemical Society* 12 (2015) 587–598.

60- H. Sayahi, **M. Hamadanian**, F. Mohsenzadeh, K. Aghapoor, M.A. Kiani, "Enhanced Efficiency of Dye–sensitized Solar Cells Based on Bulk Synthesized TiO_2 Nanorods Annealed at Different Temperatures", *Journal of the Chinese Chemical Society* 62 (2015) 811-816.

59- **M. Hamadanian**, Z. Tavangar, B. Noori, "Modification of conductive properties of (10, 0) zigzag single-walled carbon nanotubes (SWCNT) by alkali metals absorption", *Journal of Molecular Structure* 1076 (2014) 49-54.

58- **M. Hamadanian**, Z. Tavangar, B. Noori, "Modification of the electronic properties of zigzag (n= 5–10) and armchair (n= 3, 5) carbon nanotubes by K atom adsorption", *Structural Chemistry* 25 (2014) 1005-1012.

57- **M. Hamadanian**, M. Amani, V. Jabbari, "Preparation of Ionomer Poly (Ethyl Vinyl Ether-Maleic Anhydride) Block Copolymer via In Situ Radical Polymerization Incorporated by ZnO and MgO Nanoparticles", *Polymer-Plastics Technology and Engineering* 53 (2014) 504-512.

56- **M. Hamadanian**, M. Amani, V. Jabbari, "Improving thermal and optical properties of biodegradable poly (ethyl vinyl ether-co-maleic anhydride)(PEVE/MA) copolymer by encapsulation of TiO2 nanoparticles via in situ", *Polymer-Plastics Technology and Engineering* 53 (2014) 1283-1289.

55- **M. Hamadanian**, J. Safaei-Ghomi, M. Hosseinpour, R. Masoomi, V. Jabbari, "Uses of new natural dye photosensitizers in fabrication of high potential dye-sensitized solar cells (DSSCs)", *Materials Science in Semiconductor Processing* 27 (2014) 733-739.

54- **M. Hamadanian**, A. Sadeghi-Sarabi, A. Mohammadi-Mehra, V. Jabbari, "Photocatalyst Cr-doped titanium oxide nanoparticles: Fabrication, characterization, and investigation of the effect of doping on methyl orange dye degradation", *Materials Science in Semiconductor Processing* 21 (2014) 161-166.

53- A. Ehteram, **M. Hamadanian**, S.Z. Mirdamadian, V. Jabbari, "Photovoltaic performance of dye-sensitized solar cell (DSSC) fabricated by silver nanoclusters-decorated TiO_2 electrode via photochemical reduction technique", *Journal of Nanostructures* 4 (2014) 75-82.

52- F. Aghabozorgi, **M. Hamadanian,** "Theoretical investigation of the heat of formation and detonation performance on 1, 1, 3, 5, 5-pentanitro-1, 5-bis (difluoramino)-3-azapentane substituted", *Journal of Structural Chemistry* 55 (2014) 831-836.

51- M. Behpour, S.M. Ghoreishi, F. Vatani, N. Mohammadi, **M. Hamadanian**, M.A. Ghasemzadeh, "The Inhibiting Effect of Some New Derivatives of Pyrimidine-2-thione on the Corrosion of Stainless Steel 304 in Sulfuric Acid Media", *Journal of Mechanical Engineering and Technology*, 2 (2014) 1-11.

50- **M. Hamadanian**, V. Jabbari, "Improved Conversion Efficiency in Dye-Sensitized Solar Cells Based on Electrospun TiCl4-Treated TiO_2 Nanorod Electrodes", *International journal of green energy* 11 (2014) 364-375.

49- **M. Hamadanian**, F. Kalantary-Fotooh, "Density functional study of Al/N co-doped (10, 0) zigzag single-walled carbon nanotubes as CO sensor", *Computational Materials Science* 82 (2014) 497-502.

48- M. Behpour, A.M. Attaran, S.M. Ghoreishi, N. Mohammadi, **M. Hamadanian**, M. Salavati-Niasari, M. Abbasi, ”Investigation of adsorption and inhibitive properties of some diamine compounds on mild steel corrosion in hydrochloric acid solution”, *Chemical Engineering Communications* 201 (2014) 1077-1095.

47- M.H. Hadizadeh, **M. Hamadanian,** ”Adsorption of toxic gases by an open nanocone coupled with an iron atom”, *Bulgarian Chemical Communications* 46 (2014) 576-579.

46- **M. Hamadanian**, M. Shamshiri, V. Jabbari, ”Novel high potential visible-light-active photocatalyst of CNT/Mo, S-codoped TiO_2 hetero-nanostructure”, *Applied Surface Science* 317 (2014) 302-311.

45- M. Oftadeh, N.Madadi-Mahani, **M Hamadanian,** ”Density functional theory study of the local molecular properties of acetamide derivatives as anti-HIV drugs”, *Research in pharmaceutical sciences* 8 (2013) 285-297.

44- **M. Hamadanian**, A. Gravand, V. Jabbari, ”High performance dye-sensitized solar cells (DSSCs) achieved via electrophoretic technique by optimizing of photoelectrode properties”, *Materials Science in Semiconductor Processing* 16 (2013) 1352-1359.

43- **M. Hamadanian**, V. Jabbari, M. Shamshiri, M. Asad, I. Mutlay, ”Preparation of novel hetero-nanostructures and high efficient visible light-active photocatalyst using incorporation of CNT as an electron-transfer channel into the support TiO_2 and PbS”, *Journal of the Taiwan Institute of Chemical Engineers* 44 (2013) 748-757.

42- **M. Hamadanian**, M. Behpour, A.S. Razavian, V. Jabbari , ”Structural, morphological and photocatalytic characterisations of Ag-coated anatase TiO_2 fabricated by the sol–gel dip-coating method”, *Journal of Experimental Nanoscience* 8 (2013) 901-912.

41- **M. Hamadanian**, Z. Tavangar, S. Naseh, ”The structural and electronic properties of (10,0) zigzag Single-Wall Carbon Nanotubes modified by thiophene groups”, *Chemical Physics Letters* 584 (2013) 177-181.

40- **M. Hamadanian**, A. Reisi-Vanani, P. Razi, S. Hoseinifard, V. Jabbari, ”Photodeposition-assisted synthesis of novel nanoparticulate In, S-codoped TiO_2 powders with high visible light-driven photocatalytic activity”, *Applied Surface Science* 285 (2013) 121-129.

39- A. Akbari, **M. Hamadanian**, M. Bojaran, A. Yunessnia-Lehi, V. Jabbari, ”The role of solution and coagulation temperatures in crystalline structure, morphology, roughness, pore diameter distribution, and separation properties of nanoporous membranes”, *Separation Science and Technology* 47 (2012) 1866-1873.

38- **M. Hamadanian**, V. Jabbari, A. Gravand, M. Asad, "Band gap engineering of TiO_2 nanostructure-based dye solar cells (DSCs) fabricated via electrophoresis", *Surface and Coatings Technology* 206 (2012) 4531-4538.

37- **M. Hamadanian**, V. Jabbari, A. Gravand, "Dependence of energy conversion efficiency of dye-sensitized solar cells on the annealing temperature of TiO_2 nanoparticles", *Materials Science in Semiconductor Processing* 15 (2012) 371-379.

36- **M. Hamadanian**, H. Sayahi, A.R. Zolfaghari, "Modified multistep electrophoretic deposition of TiO_2 nanoparticles to prepare high quality thin films for dye-sensitized solar cell", *Journal of Materials Science* 47 (2012) 5845-5851.

35- **M. Hamadanian**, V. Jabbari, "Fabrication and characterization of dye-sensitized solar cells using electrospun TiO_2 nanofibre as a solar light harvesting layer", *International Journal of Sustainable Energy* 31 (2012) 277-289.

34- T. Mazoochi, **M. Hamadanian**, M. Ahmadi, V. Jabbari, "Investigation on the morphological characteristics of nanofiberous membrane as electrospun in the different processing parameters", *International Journal of Industrial Chemistry* 3(2) (2012) 1-8.

33- A. Akbari, **M. Hamadanian**, V. Jabbari, A. Yunessnia-Lehi, M. Bojaran, "Influence of PVDF concentration on the morphology, surface roughness, crystalline structure, and filtration separation properties of semicrystalline phase inversion polymeric membrane", *Desalination and Water Treatment* 46 (2012) 96-106.

32- **M. Hamadanian**, B. Khoshnevisan, F. Kalantary-Fotooh, Z. Tavangar, "Computational study of super cell Al-substituted single-walled carbon nanotubes as CO sensor", *Computational Materials Science* 58 (2012) 45-50.

31- **M. Hamadanian**, M. Behpour, A.S. Razavian, V. Jabbari, ” Effects of Operational Parameters on the TiO_2 and TiO_2/Ag Core-Shell Photocatalysis System for Decolorizing AR14”, *World Applied Sciences Journal* 14 (2011) 54-59.

30- **M. Hamadanian**, H. Sayahi, A.R. Zolfaghari, ”Investigating the effects of post-heat treatment temperatures on the structure of prepared nanorod by hydrothermal method”, *Journal of Nanostructures* 1 (2011) 237-242.

29- M. Oftadeh, B. Gholamalian, **M. Hamadanian,** ”Investigation of the interaction of carbon dioxide fluid with internal and external single-wall carbon nanotubes by DFT”, *Journal of Nanostructures* 1 (2011) 213-223.

28- **M. Hamadanian**, H. Sayahi, A.R. Zolfaghari, "Effect of large TiO_2 Nanoparticles as Light Scatter in Matrix of Small Nanoparticles to Improve the Efficiency in Dye-Sensitized Solar Cell", *Journal of Nanostructures* 1 (2011) 139-143.

27- **M. Hamadanian**, V. Jabbari, "Investigation on the energy conversion of dye-sensitized solar cells based on TiO_2 core/shell using metal oxide as a barrier layer", *Applied Solar Energy* 47 (2011) 281-288.

26- **M. Hamadanian**, B. Khoshnevisan and F. Kalantari Fotooh, "Density functional study of super cell N-doped (10,0) zigzag single-walled carbon nanotubes as CO sensor", *Structal Chemistry,* 22 (2011) 1205-1211.

25- **M. Hamadanian**, A. Akbari, V. Jabbari, "Electrospun Titanium Dioxide Nanofibers: Fabrication, Properties and Its Application in Photo-Oxidative Degradation of Methyl Orange (MO)", *Fibers and Polymers,* 112 (2011) 880-885.

24- **M. Hamadanian**, A. Reisi-Vanani, M. Behpour, A.S. Esmaeily, "Synthesis and characterization of Fe,S-codoped TiO_2 nanoparticles: Application in degradation of organic water pollutants", *Desalination,* 281 (2011) 319–324.

23- **M. Hamadanian**, A.Sadeghi Sarabi, A. Mihammadi Mehra, V. Jabbari, "Efficient visible-light-induced photocatalytic degradation of MO on the Cr–nanocrystalline titania–S", *Applied Surface Science* 257 (2011) 10639– 10644.

22- M. Oftadeh, S. Naseh, **M. Hamadanian,** "Electronic properties and dipole polarizability of thiophene and thiophenol derivatives via density functional theory", *Computational and Theoretical Chemistry* 966 (2011) 20–25.

21- M. Oftadeh, **M. Hamadanian** Khozani, M. Radhoosh, M.H. Keshavarz, "DFT molecular orbital calculations of initial step in decomposition pathways of TNAZ and some of its derivatives with –F, –CN and $–OCH_3$ groups", *Computational and Theoretical Chemistry* 964 (2011) 262–268.

20- **M. Hamadanian**, B. Khoshnevisan, F. Kalantari Fotooh, "Structure and electronic properties of Na-doped adamantane crystals", *Journal of Molecular Structure (THEOCHEM),* 961 (2010) 48-54.

19- M. Salavati-Niasari, S.N. Mirsattari, M. Monajjemi, **M. Hamadanian,** "Density Functional B3LYP and B3PW91 Studies of the Properties of Four Cyclic Organodibotanes With Tetramethylene Fragments", *Journal of structure,* 51 (2010) 437-443.

18- **M. Hamadanian**, A. Reisi-Vanani and A. Majedi, "Sol-Gel preparation and characterization of Co/TiO_2 nanoparticles: Application to the degradation of methyl orange", *Journal of Iranian Chemical Society,* 7 (2010) S52-S58.

17- **M. Hamadanian**, A. Reisi-Vanani and A. Majedi, "Synthesis, characterization and effect of calcination temperature on phase transformation and photocatalytic activity of Cu,S-codoped TiO_2 nanoparticles", *Applied Surface Science,* 256 (2010) 1837–1844.

16- **M. Hamadanian**, A. Reisi-Vanani and A. Majedi, "Preparation and characterization of S-doped TiO_2 nanoparticles, effect of calcination temperature and evaluation of photocatalytic activity", *Materials Chemistry and Physics*, 116 (2009) 376-382.

15- A. R. Ashrafi, **M. Hamadanian**, Z. Tavangar and H. Sabzyan, "Symmetry of A Capped Nanotube", *Digest Journal of Nanomaterials and Biostructures,* 4 (2009) 319-322.

14- M. Behpour, S.M. Ghoreishi, N. Soltani, M. Salavati, **M. Hamadanian** and A. Gandomi, "Electrochemical and theoretical investigation on the corrosion inhibition of mild steel by thiosalicylaldehyde derivatives in hydrochloric acid solution", *Corrosion Science,* 50 (2008) 2172-2181.

13- A. Kahani, **M. Hamadanian** and O. Vandadi, "Deposition of Magnetite Nanoparticles in Activated Carbons and preparation of Magnetic Activated Carbons", *American Institute of Physisics (AIP),* 929 (2007) 183-188.

12- M.R. Darafsheh, Y. Farjami, A.R. Ashrafi and **M. Hamadanian,** "Full non-rigid group of Sponge and Pina", *Journal of Mathematical Chemistry,* 41 (2007) 315-326.

11- G.R. vakili-nezhaad, **M. Hamadanian** and M. Ghomashi, "Calculation of the Heat Capacities of Solid Phase Buckminster Fullerene by Using Semi-empirical methods", *International Journal of Nanoscience and Nanotechnology,* 2 (2006) 9-18.

10- **M. Hamadanian** and A.R. Ashrafi, "On the symmetry of bis benzene chromium(0) with D_6d point group", *The Journal of the Argentine Chemical Society,* 94 (2006) 47-53.

9- A.R. Ashrafi and **M. Hamadanian,** "Full non-rigid group Theory and Symmetry of Melamine", *Journal of the Iranian Chemical Society*, 2 (2005) 135-139.

8- A. R. Ashrafi and **M. Hamadanian,** "Symmetry Properties of some Chemical Graphs", *Croatica Chemica Acta,* 78 (2005) 159-163.

7- G. A. Moghani, A. R. Ashrafi and **M. Hamadanian,** "Symmetry Properties of Tetraammine Platinum(II) with C_2v and C_4v Point Groups", *Journal of Zhejiang University Science*, 6 (2005) 1087-1093.

6- A. R. Ashrafi and **M. Hamadanian,** "Group Theory for Tetraammine Platinum (II) with C_{2v} and C_{4v} Point Group in the Non-Rigid System", *Journal of Applied Mathematics and Computing,* 14 (2004) 289-303.

5- **M. Hamadanian** and A. R. Ashrafi, "The Full NonRigid Group Theory for Cis- and Trans-Dichlorodiammine Platinum (II) and Trimethylamine", *Croatica Chemica Acta*, 76 (2003) 305-312.

4- A. R. Ashrafi and **M. Hamadanian,** "The Full NonRigid Group Theory for Tetraammine Platinum (II)", *Croatica Chemica Acta,* 76 (2003) 299-303.

3- **M. Hamadanian** and A. R. Ashrafi, "The Full NonRigid Group Theory for Trimethylamine", *International Journal of Mathematics and Mathematical Sciences,* 42 (2003) 2701-2706.

2- A. H. pakiari and **M Hamadanian Khozani,** "One-electron orbital Description of Doublet radical by FSGO", *J. Mol. Struct. (TheoChem),* 453 (1998) 77.

1- A. Zeini-Isfahani and **M. Hamadanian Khozani,** "Photocatalytic reaction of aromatic alcohol by using of metal coated on dioxide titanium (IV)", *Iranian journal of chemistry and chemical engineering*, 17 (1998) 20.

C) Conference Papers

152- S.M.A. Daie-Naseri, **M. Hamadanian**, "Highly efficient electrochemical sensing acetaminophen based on metal organic framework", 23th Iranian Inorganic Chemistry Conference, November 6-7, University of Qom, Iran, 2024.

151- S.M.A. Daie-Naseri, **M. Hamadanian**, "Introducing one-pot synthesis of Zn-MOF based on terephthalate compounds for electrochemical applications", 23th Iranian Inorganic Chemistry Conference, November 6-7, University of Qom, Iran, 2024.

150- H. Akbari, **M. Hamadanian**, "Fabrication and Characterization of La_2MnTiO_6@Graphene Composites for Supercapacitor Electrodes", 23th Iranian Inorganic Chemistry Conference, November 6-7, University of Qom, Iran, 2024.

149- N. Abdolrahimi, **M. Hamadanian**, "$SiO_2/TiO_2/g\text{-}C_3N_4$ nancomposite membrane photocatalytic activity under UV light", 4rd Iranian Catalyst Conferences, Iran University of Science & Technology, Iran, February 28-29, 2024.

148- N. Abdolrahimi, **M. Hamadanian**, "$FeTiO_3/g\text{-}C_3N_4$ hybrid architectures as visible-light-driven photocatalyst for Acid red 88 degradation", 4rd Iranian Catalyst Conferences, Iran University of Science & Technology, Iran, February 28-29, 2024.

147- N. Abdolrahimi, **M. Hamadanian**, "Photochemical-assisted synthesis of Ce@$FeTiO_3$ nanocomposite for photocatalytic degradation of rhodamine-B under visible light irradiation", 4rd Iranian Catalyst Conferences, Iran University of Science & Technology, Iran, February 28-29, 2024.

۱۴۶- پرستو استاد محمدی، **مسعود همدانیان**، " سنتز و شناسایی پروسکایت¬ سه¬گانه¬ی $Bi_2Mo_2O_9$ خالص و آلاییده شده با گرافن و ارزیابی بهبود خاصیت ذخیره¬سازی هیدروژن آنها" ششمین کنفرانس شیمی کاربردی ایران (IACC6)، دانشکده علوم پایه،گروه شیمی کاربردی، دانشگاه ملایر، ۷-۶ شهریور ۱۴۰۱.

۱۴۵- فاطمه کیاپاشا، **مسعود همدانیان**، "بررسی و بهبود ذخیره‌سازی هیدروژن در پروسکایت مضاعف La_2CoMnO_6 آلاییده شده با گرافن به روش سل-ژل" ششمین کنفرانس شیمی کاربردی ایران (IACC6)، دانشکده علوم پایه،گروه شیمی کاربردی، دانشگاه ملایر، ۶-۷ شهریور ۱۴۰۱.

۱۴۴- حدیثه اکبری، **مسعود همدانیان**، " سنتز و شناسایی نانوذرات پروسکایت La_2ZnTiO_6 ناخالص شده با نقره روی سطح با روش احیا نور شیمیایی و بررسی کاربرد آن در زمینه ذخیره سازی هیدر وژن" ششمین کنفرانس شیمی کاربردی ایران (IACC6)، دانشکده علوم پایه،گروه شیمی کاربردی، دانشگاه ملایر، ۷-۶ شهریور ۱۴۰۱.

۱۴۳- زینب شیره، **مسعود همدانیان**، مریم نیکزاد، غزاله امینی، "بررسی خواص مکانیکی نانوکامپوزیت اپوکسی/الیاف شیشه/روی اکسید تقویت شده با لیگنین استخراج شده از پوسته‌ی هسته‌ی زردآلو"، پنجمین کنگره ملی شیمی و نانوشیمی از پژوهش تا توسعه ملی، دانشگاه علمی کاربردی، تهران، ۲۹ خرداد ۱۴۰۱.

۱۴۲- زینب شیره، مریم نیکزاد، **مسعود همدانیان**، غزاله امینی، "تأثیر لیگنوسولفونات و نانوذرات روی اکسید بر خواص مکانیکی نانوکامپوریت اپوکسی/الیاف شیشه"، پنجمین کنگره ملی شیمی و نانوشیمی از پژوهش تا توسعه ملی، دانشگاه علمی کاربردی، تهران، ۲۹ خرداد ۱۴۰۱.

141- A Takari, **M. Hamadanian**, A.R. Ghasemi, "Investigation of mechanical/thermal properties of epoxy-titana/silica nanocomposites using DMTA and TGA", International conference on Nanotechnology & Nanoscience, University of Tehran, Iran, December 30, 2020.

140- A Takari, **M. Hamadanian**, A.R. Ghasemi, "Investigation of Morphology and topology of epoxy / TiO_2 nanocomposite", International conference on Nanotechnology & Nanoscience, University of Tehran, Iran, December 30, 2020.

139- M. Aghilinategh, M. Barati, **M. Hamadanian**, "Synthesis of SrO/TiO_2 nano-catalysts and its effect on one put biodiesel production from Chlorella vulgaris microalgae in supercritical methanol", 2nd Iranian Catalyst Conference (ICC2020), Tehran, Iran, February 19-20, 2020.

۱۳۸- اکبر تکری، **مسعود همدانیان**، سعید میرصفایی، سیدعلیرضا موسوی، "ساخت نانوذرات SiO_2، TiO_2 و TiO_2/SiO_2 در دماهای بالا و تاثیر بر روی خواص مکانیکی نانوکامپوزیت اپوکسی"، *چهارمین کنفرانس شیمی کاربردی ایران (IACC4)*، دانشگاه ارومیه، ایران، ۳-۱ مرداد ماه ۱۳۹۸.

۱۳۷- اکبر تکری، **مسعود همدانیان**، مرضیه سرافرازی، "بررسی تغییرات طول نانوکامپوزیتهای اپوکسی با افزودن نانوذرات SiO_2 وTiO_2 "، *چهارمین کنفرانس شیمی کاربردی ایران (IACC4)*، دانشگاه ارومیه، ایران، ۳-۱ مرداد ماه ۱۳۹۸.

136- M. Sarafrazi, **M. Hamadanian**, "Surface interaction energy simulation of TiO_2 and SiO_2-TiO_2 layers with Epoxy resin", *22th Iranian Physical chemistry Conference*, Zanjan, Iran, August 20-22, 2019.

135- M. Aghilinategh, M. Barati, **M. Hamadanian**, “Direct Conversion of Chlorella Vulgaris Microalgae to Biodiesel Under Supercritical Methanol Condition in The Presence of Heterogeneous Nano-photocatalyst”, *22th Iranian Physical chemistry Conference*, Zanjan, Iran, August 20-22, 2019.

۱۳۴- مرضیه اکبرزاده، **مسعود همدانیان**، "تهیه نانوکامپوزیت $Gr\text{-}Cr,S/TiO_2$ به روش سل-ژل و بررسی عملکرد نورکاتالیزوری آنها بر مبنای میزان تخریب رنگ متیل اورانژ در برابر نور مریی و فرابنفش"، *اولین کنگره ملی نانوفناوری در علوم سلامت*، دانشگاه علوم پزشکی همدان، ایران، ۲۰-۱۹ اردیبهشت ماه ۱۳۹۷.

۱۳۳- مرضیه اکبرزاده، **مسعود همدانیان**، "تهیه نانوذرات $Cr,S/TiO_2$ به روش سل-ژل و مدل سازی عملکرد نورکاتالیزوری آنها با بهره گیری از طراحی آزمایش به روش رویه پاسخ"، *اولین کنگره ملی نانوفناوری در علوم سلامت*، دانشگاه علوم پزشکی همدان، ایران، ۲۰-۱۹ اردیبهشت ماه ۱۳۹۷.

132- S. Khademi, **M. Hamadanian**, B. Roozbehani, “Preparation of Zeolite A /Epoxy Nanocomposites by Ultrasonic Dispersion and Enhanced Thermal Properties”, *5th Iran International Zeolite Conference*, Tabriz, Iran, August 26-27, 2018.

131- S. Khademi, **M. Hamadanian**, B. Roozbehani, “Removal of Mixed Heavy Metal Ions in Ternary Aqueous Solution Using Functionalized MCM-41 Synthesized by Microwave Hydrothermal” *5th Iran International Zeolite Conference*, Tabriz, Iran, August 26-27, 2018.

130- M. Ostadi, **M. Hamadanian**, “Application of response surface methodology for modeling and optimizing of photocatalytic properties of $S/Fe/TiO_2$ nanoparticle prepared”, *19th Iranian Chemistry Congress*, Shiraz University, Shiraz, Iran, February 20-23, 2017.

129- M. Mahdipour, **M. Hamadanian**, “Synthesis of Cr, Si/TiO_2 nano particles by sol-gel method and modelling of their photocatalytic performance utilizing experimental design with response surface methodology (RSM)”, *20th Iranian Physical chemistry Conference*, University of Arak, Arak, Iran, August 20-22 2017.

128- M.P. Mazhari, **M. Hamadanian**, “Response surface methodology (RSM) for optimization of water treatment by $Fe_3O_4@SiO_2@Cr$”, *20th Iranian Physical chemistry Conference*, University of Arak, Arak, Iran, August 20-22 2017.

127- S. Mirsafaee, K. Torabi, M. Ashrafi, **M. Hamadanian**, “Optimization of Tensile Strength of $NBR/PVC/NiFe_2O_4$ Nanocomposites Using Response Surface Methodology”, *20th Iranian Physical chemistry Conference*, University of Arak, Arak, Iran, August 20-22 2017.

126- S. Nasiri Kokhdan, A. Reisi-Vanani, **M. Hamadanian**, “Computational study of the gas phase reaction of HNCO and sumanene: A DFT study” *19th Iranian Physical Chemistry Conference*, Gilan, Iran, September 13-15, 2016.

125- S. Nasiri Kokhdan, A. Reisi-Vanani, **M. Hamadanian**, "Full analysis of $C_{32}H_{12}$ as a new buckybowl and a subfullerene structure: A theoretical study" *2nd international conference on new research achivement in chemistry and chemical engineering*, Industrial Amir Kabir University, Tehran, Iran, May 5, 2016.

124- S. Nasiri Kokhdan, A. Reisi-Vanani, **M. Hamadania**n, "The structure and spectroscopic properties of $C_{30}H_{10}$ as a new buckybowl: DFT and TD-DFT study" *2nd international conference on new research achivement in chemistry and chemical engineering*, Industrial Amir Kabir University, Tehran, Iran, May 5, 2016.

123- Z.Tavangar, P. Mehdizadeh, **M. Hamadanian**, "Photocatalyst N-doped titanium oxide nano particles: fabrication, charactrization and investigation of the effect of doping on methyl orange degradation", *The 9th International chemical engineering congress & exhibition (IChEC 2015)*, Shiraz, Iran, December 26-28, 2015.

۱۲۲- زهرا توانگر، **مسعود همدانیان**، هادی بشرنواز، " بررسی خواص الکترونی و ساختاری نانولوله‌های بورنیتریدی خالص و ناخالص شده با سزیم "، *کنفرانس بین المللی دست‌آوردهای نوین پژوهشی در علوم شیمی و مهندسی شیمی*، تهران، ایران، ۲۶ شهریور ماه ۱۳۹۴.

121- R. Rahmatolahzadeh, L. Ma'mani, **M. Hamadanian**, S. Bahadorikhalili, A. Shafie, "Organically functionalized mesoporous silica nanoparticles as an effective nano-carrier for curcumin delivery", *3rd International Conference on Nanotechnology (ICN2015)*, Istanbul, Turkey, August, 27-28, 2015.

۱۲۰- رضا رحمت الله زاده، لیلا مأمنی، سعید بهادری خلیلی، **مسعود همدانیان**، علیرضا فرومدی، عباس شفیعی، " مزوحفره سیلیکایی SBA-15 عامل دار شده با گروه تیواوره ای به عنوان یکنانوحامل جدید، مؤثر و پایدار جهت رهایش داروی آلندرونیت "، *دومین همایش ملی و کارگاههای تخصصی علوم و فناوری نانو*، تهران، ایران، ۳۱-۳۰ اردیبهشت ماه ۱۳۹۴.

۱۱۹- زهرا توانگر، **مسعود همدانیان**، هادی بشرنواز، " بررسی خواص الکترونی و ساختاری نانولوله‌های تک جداره بورنیتریدی خالص وناخالص شده با آلومینیوم "، *دومین همایش ملی و کارگاههای تخصصی علوم و فناوری نانو*، تهران، ایران، ۳۱-۳۰ اردیبهشت ماه ۱۳۹۴.

۱۱۸- اکرم دورانی، **مسعود همدانیان**، مجید حقگو، " تهیه وشناسایی نانوکامپوزیت آئروژل کربن/نانولوله کربنی بااستفاده از پلی آکریلونیتریل به عنوان عامل اتصال دهنده عرضی "، *دومین همایش ملی و کارگاههای تخصصی علوم و فناوری نانو*، تهران، ایران، ۳۱-۳۰ اردیبهشت ماه ۱۳۹۴.

117- S. Nasiri Kokhdan, A. Reisi-Vanani, **M. Hamadanian**, "Theoretical study on the mechanism of cycloaddition reaction of nitrous oxide onto sumanene nanostructure", *18th Iranian Chemistry Congress*, Semnan, Iran, August 30- September 1, 2015.

116- S. Nasiri Kokhdan, A. Reisi-Vanani, **M. Hamadanian**, "Investigation of the reaction mechanism of the phenyl azide addition onto armchair (5,5) single wall carbon nanotube: An ONIOM study", *18th Iranian Chemistry Congress*, Semnan, Iran, August 30- September 1, 2015.

115- **M. Hamadanian**, H.A. Rafiee-Pour, S. Katebi Koushali, "Immobilization and bioelectrochemistry of cytochrome c on nanoporous TiO_2 and ZnO films", *13th Conference on Biophysical Chemistry*, Ardabil, Iran, May 26-27, 2015.

114- **M. Hamadanian**, M. Rostami, "Enhanced photocatalytic activity of graphene-TiO_2 nanocomposite under UV and visible light irradiation", *5th International Congress on Nanoscience & Nanotechnology (ICNN2014)*, Tehran, Iran, October, 22-24, 2014.

113- **M. Hamadanian**, L.S. Sharif Arani, "Adsorption of Gas Molecules on Nanocones with Hexagonal Apexes", *17th Iranian Physical Chemistry Conference*, Tehran, Iran, October, 21-23, 2014.

112- **M. Hamadanian**, Z. Tavangar, S. Naseh, "The Electronic Characterization of the Monovalent Functionalization of Zigzag Single-Walled Carbon Nanotubes", *17th Iranian Physical Chemistry Conference*, Tehran, Iran, October, 21-23, 2014.

111- **M. Hamadanian**, Z. Tavangar, S. Naseh, "The Effect of Monovalent Functionalization on the Geometrical Properties of Zigzag Single-Walled Carbon Nanotubes", *17th Iranian Physical Chemistry Conference*, Tehran, Iran, October, 21-23, 2014.

110- **M. Hamadanian**, Z. Tavangar, B. Noori, "DFT Study of Electronic Properties of Na and K-Adsorbed (10,0) Single-Walled Carbon Nanotubes", *17th Iranian Physical Chemistry Conference*, Tehran, Iran, October, 21-23, 2014.

109- H.A. Rafiee-Pour, **M. Hamadanian**, M. Badiei, "Direct electron transfer between cytochrome c and TiO_2/Ag nanocomposite electrode", *11th Iranian Biennial Electrochemistry Seminar*, Rasht, Iran, September 9-11, 2014.

108- **M. Hamadanian**, H.A. Rafiee-Pour, S. Katebi Koushali, "Direct electrochemistry of cytochrome c on TiO_2/Au nanocomposite modified electrode", *11th Iranian Biennial Electrochemistry Seminar*, Rasht, Iran, September 9-11, 2014.

۱۰۷- **مسعود همدانیان**، نسترن ملکی، " تبدیل انرژی خورشیدی به انرژی شیمیایی توسط نانوذرات TiO_2 اصلاح شده با گوگرد، نقره و پلاتین در یک فرایند نورکاتالیزوری"، *دومین کنفرانس تخصصی فناوری نانو در صنعت برق و انرژی*، تهران، ایران، ۲۹-۲۷ خردادماه ۱۳۹۳.

۱۰۶- **مسعود همدانیان**، زهرا توانگر، بنفشه نوری، "مطالعه خواص الکترونی نانولوله آلومینیوم نیتریدی تک دیواره (۸،۰) آلاییده با فلز منیزیم با روش تئوری تابعیت چگالی"، *یازدهمین همایش شیمی پیام‌نور، اصفهان*، ایران، ۲۵-۲۴ اردیبهشت ماه ۱۳۹۳.

۱۰۵- **مسعود همدانیان**، محمد حسین کشاورز، بهزاد نظری، مصطفی محبی، "ارائه مدلی ساده و قابل اطمینان جهت پیش بینی نقطه ذوب گستره وسیعی از ترکیبات پرانرژی"، *یازدهمین همایش شیمی پیام‌نور، اصفهان*، ایران، ۲۵-۲۴ اردیبهشت ماه ۱۳۹۳.

۱۰۴- **مسعود همدانیان**، سارا ناصح، زهرا توانگر، " جذب مولکول بنزن بر روی نانولوله کربنی تک دیواره زیگزاگ اکسید شده"، *یازدهمین همایش شیمی پیام‌نور، اصفهان*، ایران، ۲۵-۲۴ اردیبهشت ماه ۱۳۹۳.

103- **M. Hamadanian**, Z. Tavangar, B. Noori, “A theoretical study of the Cesium atom adsorption onto (10,0) carbon nanotube”, *16th Iranian Physical Chemistry Conference*, Babolsar, Iran, October, 29-31, 2013.

۱۰۲- **مسعود همدانیان**، محمد حسن هادی‌زاده، "مطالعه کوانتومی جذب گازهای سمی موجود در هوا توسط نانو مخروط باز کوپل شده با اتم آهن"*کنفرانس نانو محاسباتی*، تهران، ایران، ۲۷ بهمن ماه ۱۳۹۱.

۱۰۱- **مسعود همدانیان**، مریم شمشیری، ساجدین حسین‌پور، " مطالعه نظری عامل‌دار کردن نانولوله‌های کربنی تک‌دیواره به وسیله‌ی محاسبات اونیوم "، *کنفرانس نانو محاسباتی*، تهران، ایران، ۲۷ بهمن ماه ۱۳۹۱.

۱۰۰- سلیمان اسماعیل‌زاده، **مسعود همدانیان**، " روند تغییرات آنتروپی و ظرفیت گرمایی در فولرین‌ها "، *کنفرانس نانو محاسباتی*، تهران، ایران، ۲۷ بهمن ماه ۱۳۹۱.

۹۹- **مسعود همدانیان**، سارا ناصح، " عامل‌دار کردن کووالانسی دیواره جانبی نانولوله‌های کربنی تک‌دیواره به عنوان حامل‌های دارویی "، *کنفرانس نانو محاسباتی*، تهران، ایران، ۲۷ بهمن ماه ۱۳۹۱.

98- **M. Hamadanian**, A. Reisi-Vanani, P. Razi, S. Hoseinifard, “Study of photocatalytic behavior of photochemical doped TiO_2 nanoparticles with In-V synthesized by sol-gel and hydrothermal methods”, *2nd International conference Nanomaterials: Application & Properties (NAP 2012)*, Alushta, Ukraine, September, 17-19, 2012.

97- **M. Hamadanian**, P. Razi, S. Hosseinifard, “Highly Efficient Visible Light TiO_2 Nanophotocatalyst Prepared by Sulphur-Indium Doping”, *International Congress on Nanoscience & Nanotechnology (ICNN2012)*, Kashan, Iran, September 8-10, 2012.

96- **M. Hamadanian**, B. Noori, “Conductive Properties of Li Adsorption on (10 0) Zigzag Single- Wall Carbon Nanotubes: a Theoretical Approach”, *International Congress on Nanoscience & Nanotechnology (ICNN2012)*, Kashan, Iran, September 8-10, 2012.

95- **M. Hamadanian**, S. Esmaeilzadeh, “Evaluation Aromaticity and Gibbs Free Energy in the C_{20}-Functionalized”, *International Congress on Nanoscience & Nanotechnology (ICNN2012)*, Kashan, Iran, September 8-10, 2012.

94- **M. Hamadanian**, M. Amani, “Synthesis and Characterization of Poly(Ethyl Vinyl Ether-co-Maleic Anhydride)-Block-Copolymer/Titanium Dioxide Nanocomposite”, *International Congress on Nanoscience & Nanotechnology (ICNN2012)*, Kashan, Iran, September 8-10, 2012.

93- **M. Hamadanian**, M. Shamshiri, “Photo Catalytic Degradation of Methylorange under UV and Visible Light using Mo and S Codoped TiO_2 Nanoparticle”, *International Congress on Nanoscience & Nanotechnology (ICNN2012)*, Kashan, Iran, September 8-10, 2012.

92- **M. Hamadanian**, S. Naseh, "Theoretical Investigation of Zigzag Single-Wall Carbon Nanotubes Modified by Thiophene Groups", *International Congress on Nanoscience & Nanotechnology (ICNN2012)*, Kashan, Iran, September 8-10, 2012.

91- **M. Hamadanian**, P. Razi, S. Hosseinifard, "Comparing photocatalytic activity of In-V photochemical codoped TiO_2 sol-gel and hydrothermal nanoparticles", *15th Iranian Physical Chemistry Conference*, Tehran, Iran, September, 3-6, 2012.

90- V. Jabbari, **M. Hamadanian**, A. Gravand, "Fabrication of TiO_2 nano fibers via electrospinig as high potential photocatalyst", *15th Iranian Physical Chemistry Conference*, Tehran, Iran, September, 3-6, 2012.

89- **M. Hamadanian**, M. Shamshiri, "Photocatalytic degration of congored under uv and visible light using Mo and S codoped TiO_2 nanoparticles", *15th Iranian Physical Chemistry Conference*, Tehran, Iran, September, 3-6, 2012.

88- **M. Hamadanian**, H. Sayahi, "Multistep electrophoretic deposition of TiO_2 nanoparticles to prepare high quality thin films for Dye -sensitized solar cell", *Iran-Belarus International Conference on Modern Applications of Nanotechnology (IBCN12)*, Minsk, Belarus, June 27-29, 2012.

87- **M. Hamadanian**, A. Reisi-Vanani, P. Razi, S. Hoseinifard, "Combining Sol-Gel and Hydrothermal Methods With Photodeposition Method to Prepare In/TiO_2 Nanoparticles", *Iran-Belarus International Conference on Modern Applications of Nanotechnology (IBCN12)*, Minsk, Belarus, June 27-29, 2012.

86- **M. Hamadanian**, V. Jabbari, "Fabrication of Dye Sensitized Solar Cells Based on TiO_2 Core Shell Using ZnO as a Barrier Layer", *Iran-Belarus International Conference on Modern Applications of Nanotechnology (IBCN12)*, Minsk, Belarus, June 27-29, 2012.

85- **M. Hamadanian**, H. Sayahi, A. Zolfaghari, Z. Jamshidi, "Multistep electrophoretic deposition of TiO_2 nanoparticles to prepare high quality thin films for Dye-Sensitized Solar Cell", *The 4th International Conference on Nanostructures (ICNS4)*, Kish, Iran, March 12-14, 2012.

۸۴- **مسعود همدانیان**، افشار گراوند، میثم احمدی، وحید جباری، " بررسی مقایسه‌ای تاثیر نوع اصلاح سطحی بر روی راندمان تبدیل انرژی سلول‌های خورشیدی نانوساختار "، *کنفرانس سلول‌های خورشیدی نانو ساختاری*، تهران، ایران، ۲۴ شهریور ماه ۱۳۹۰.

۸۳- **مسعود همدانیان**، افشار گراوند، میثم احمدی، وحید جباری، " بررسی راندمان‌های تبدیل انرژی سلول‌های خورشیدی بر پایه نانوساختارهای تک بعدی و سه بعدی "، *کنفرانس سلول‌های خورشیدی نانو ساختاری*، تهران، ایران، ۲۴ شهریور ماه ۱۳۹۰.

۸۲- **مسعود همدانیان**، هانی صیاحی، علیرضا ذوالفقاری، " ایجاد لایه‌های با ضخامت‌های مختلف و یکنواخت از نانوذرات دی اکسید تیتانیم به روش الکترفورز چند مرحله‌ای برای کاربرد در سلول‌های خورشیدی رنگدانه‌ای "، *کنفرانس سلول‌های خورشیدی نانو ساختاری*، تهران، ایران، ۲۴ شهریور ماه ۱۳۹۰.

81- **M. Hamadanian**, Hani Sayahi, A.R. Zolfaghari, "Novel electrophoretic deposition of TiO_2 nanoparticles to prepare high quality thin films for Dye-sensitized solar cell", *15th Iranian chemistry congress*, Hamadan, Iran, September 4-6, 2011.

80- **M. Hamadanian**, S. Hoseinifard, P. Razi, "Synthesis of In-V co-doped TiO_2 by photochemical method", *15th Iranian chemistry congress*, Hamadan, Iran, September 4-6, 2011.

79- **M. Hamadanian**, P. Razi, S. Hoseinifard, "Photocatalytic activity enhancing for TiO_2 phoyocatalyst by doping with indium", *15th Iranian chemistry congress*, Hamadan, Iran, September 4-6, 2011.

78- **M. Hamadanian**, B.Khoshnevisan, F. Kalantari-Fothoh, "Computational Study of Super Cell Al-doped Single- Walled Carbon Nanotubes as CO Sensor", *7th NanoScience & NanoTechnolgy Conference*, Istanbul, Turkey, June, 27- July, 1, 2011.

77- M. Oftadeh, S. Naseh, **M. Hamadanian**, "Experimental and DFT determination of the reactivity sites, electronic structure and polarizability of benzothiazol and tetratiafulvalene", *14th Iranian Physical Chemistry Conference*, Kish, Iran, February, 25-28, 2011.

76- A.Reisi-Vanani, **M. Hamadanian**, "Enhancement of the photocatalytic activity of doped and co-doped TiO_2 nanoparticles by metal and non-metal atoms and phase transformation", *14th Iranian Physical Chemistry Conference*, Kish, Iran, February, 25-28, 2011.

75- **M. Hamadanian**, F. Kalantari-Fotoh, "Theoretical Study of Super Cell Al-doped Single- Walled Carbon Nanotubes (Al-SWNT) as CO Sensor", *14th Iranian Physical Chemistry Conference*, Kish, Iran, February, 25-28, 2011.

74- **M. Hamadanian**, A.Mohammadi-Mehra, V.Jabbari, "Enhancement of the photocatalytic performance of TiO_2 photocatalysts via transition metal modification", *14th Iranian Physical Chemistry Conference*, Kish, Iran, February, 25-28, 2011.

۷۳- مسعود همدانیان، افشار گراوند، میثم احمدی، وحید جباری، " بررسی مقایسه‌ای تاثیر نوع اصلاح سطحی بر روی راندمان تبدیل انرژی سلول‌های خورشیدی نانوساختار "، *کنفرانس سلول‌های خورشیدی نانو ساختاری*، دانشگاه صنعتی شریف، تهران، ایران، ۲۴ شهریور ۱۳۹۰، صفحه ۴۸.

۷۲- **مسعود همدانیان**، افشار گراوند، میثم احمدی، وحید جباری، " بررسی راندمان‌های تبدیل انرژی سلول‌های خورشیدی بر پایه نانوساختارهای تک بعدی و سه بعدی "، *کنفرانس سلول‌های خورشیدی نانو ساختاری*، دانشگاه صنعتی شریف، تهران، ایران، ۲۴ شهریور ۱۳۹۰، صفحه ۴۷.

۷۱- **مسعود همدانیان**، هانی صیاحی، علیرضا ذوالفقاری، " ایجاد لایه‌های با ضخامت‌های مختلف و یکنواخت از نانوذرات دی اکسید تیتانیم به روش الکترفورز چند مرحله‌ای برای کاربرد در سلول‌های خورشیدی رنگدانه‌ای "، *کنفرانس سلول‌های خورشیدی نانو ساختاری*، دانشگاه صنعتی شریف، تهران، ایران، ۲۴ شهریور ۱۳۹۰، صفحه ۳۴.

70- **M. Hamadanian**, H. Sayahi, A.R. Zolfaghari, "Novel electrophoretic deposition of TiO_2 nanoparticles to prepare high quality thin films for Dye-sensitized solar cell", *15th Iranian Chemistry Congress,* Bou Ali Sina University, Hamadan, Iran, September, 4-6, 2011, 1117.

69- **M. Hamadanian**, S. Hoseinifard, P. Razi, "Synthesis of In-V co-doped TiO_2 by photochemical method", *15th Iranian Chemistry Congress,* Bou Ali Sina University, Hamadan, Iran, September, 4-6, 2011, 1067.

68- **M. Hamadanian**, P. Razi, S. Hoseinifard, "Photocatalytic activity enhancing for TiO_2 phoyocatalyst by doping with indium", *15th Iranian Chemistry Congress,* Bou Ali Sina University, Hamadan, Iran, September, 4-6, 2011, 1029.

67- **M. Hamadanian**, B.Khoshnevisan, F. Kalantari Fotoh, "Computational Study of Super Cell Al-doped Single- Walled Carbon Nanotubes as CO Sensor", *7th NanoScience & NanoTechnolgy Conference,* Sabanci University, Istanbul, Turkey, June 27- July 1, 2011, 3E 15.

66- M. Oftadeh, S. Naseh, **M. Hamadanian,** "Experimental and DFT determination of the reactivity sites, electronic structure and polarizability of benzothiazol and tetratiafulvalene", *14th Iranian Physical Chemistry Conference,* University of Tehran, Kish, Iran, February, 25-28, 2011, 2322-2324.

65- A. Reisi-Vanani, **M. Hamadanian,** "Enhancement of the photocatalytic activity of doped and co-doped TiO2 nanoparticles by metal and non-metal atoms and phase transformation", *14th Iranian Physical Chemistry Conference,* University of Tehran, Kish, Iran, February, 25-28, 2011, 1846-1848.

64- **M. Hamadanian**, F. Kalantari Fotoh, "Theoretical Study of Super Cell Al-doped Single- Walled Carbon Nanotubes (Al-SWNT) as CO Sensor", *14th Iranian Physical Chemistry Conference,* University of Tehran, Kish, Iran, February, 25-28, 2011, 813-815.

63- **M. Hamadanian**, A. Mohammadi Mehra, V. Jabbari, "Enhancement of the photocatalytic performance of TiO_2 photocatalysts via transition metal modification", *14th Iranian Physical Chemistry Conference,* University of Tehran, Kish, Iran, February, 25-28, 2011, 102-105.

62- **M .Hamadanian**, R .Hosseinpour, "Effect of Substituition on Structure, Stability and Electronic Properties of Nanoscale Polyhedral Oligomeric Silsesquioxane (POSS-T12)", *Fourth Humboldt Conference on Computational Chemistry,* Varna Bulgaria, July, 12-15, 2010, 40.

61- **M .Hamadanian**, A. Vali-pour, "Investigation of Structural and Electronic Properties of Nanometric Diamondoids Compounds Containing Alkali Metal", *Fourth Humboldt Conference on Computational Chemistry,* Varna Bulgaria, July, 12-15, 2010, 39.

60- **M. Hamadanian**, M. Sharif, "Structures, stabilities and electronic properties analysis of substituted nano-scale polyhedral oligomeric silsesquioxane (T8-POSS)", *13th Iranian Physical Chemistry Seminar,* Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 575-576.

59- **M. Hamadanian**, B. Khoshnevisan, F. Kalantary-Fotooh, "First principles study of structure and electronic properties of Na-doped adamantane in disordered solid phase", *13th Iranian Physical Chemistry Seminar,* Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 559-560.

58- **M. Hamadanian**, F. Mirzaei, "Theoretical investigation of the intramolecular hydrogen bonding of 1-(2-methoxyphenyl)-o-carborane", *13th Iranian Physical Chemistry Seminar,* Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 537-538.

57- **M. Hamadanian**, R. Hosseinpour, "Effect of substitution on structure, stability and electronic properties of nanoscale polyhedral oligomeric silsesquioxane (T12-POSS)", *13th Iranian Physical Chemistry Seminar*, Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 535-536.

56- **M. Hamadanian**, A. Vali pour, "Theoretical studies of structural and electronic properties of nano-metric adamantane compounds containing alkali metals", *13th Iranian Physical Chemistry Seminar,* Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 533-534.

55- **M. Hamadanian**, F. Aghabozorgi, "Investigation of explosive performance of substituted 1,1,3,5,5-pentanitro-1,5-bis(difluoramino)-3-azapentane by DFT methods", *13th Iranian Physical Chemistry Seminar*, Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 525-526.

54- A. Reisi-Vanani, **M. Hamadanian,** "Sol-gel preparation of Cu,S-codoped TiO_2 nanoparticles and evaluation of phase transformation and photocatalytic activity", *13th Iranian Physical Chemistry Seminar,* Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 521-522.

53- M. Radhoosh, M. Oftadeh, **M. Hamadanian,** "Investigation of the deflagration pathway for TNAZ and some of its derivatives as energetic materials by DFT Method", *13th Iranian Physical Chemistry Seminar*, Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 253-254.

52- M. Oftadeh, S. Saidi, **M. Hamadanian,** "Relationship of dipole moment to hydrostatic pressure in hydrogen molecule", *13th Iranian Physical Chemistry Seminar,* Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 245-246.

51- M. Oftadeh, S. Nasseh, **M. Hamadanian,** "Experimental and theoretical determination of the dipole polarizability of substituted thiophenols", *13th Iranian Physical Chemistry Seminar,* Shiraz University of Technology, Shiraz, Iran, April, 12-15, 2010, 217-218.

50- Z. Tavangar, **M. Hamadanian**, A.Reisi-Vanani, "Effect of calcination temperature on Preparation, Characterization and evaluation of photocatalytic activity of Sulfur doped TiO_2 nanoparticles", *XIth*

Netherlands Catalysis and Chemistry Conference, Noordwijkerhout, University of Twente, Netherland, March, 1-3, 2010, 240.

49- **M. Hamadanian**, A.Reisi-Vanani, "Synthesis, characterization and effect of calcination temperature on phase transformation and photocatalytic activity of Cu,S-codoped TiO_2 nanoparticles", *XIth Netherlands Catalysis and Chemistry Conference*, Noordwijkerhout, University of Twente, Netherland, March, 1-3, 2010, 239.

۴۸- **مسعود همدانیان**، محسن بهپور، و اسراالسادات رضویان، "بررسی دو شیوه متفاوت در تهیه و تثبیت سل نانو ذرات TiO_2 به روش سل ژل"، ششمین همایش دانشجویی فناوری نانو، انسیتو تحقیقات تغذیه‌ای و صنایع غذایی کشور، دانشگاه علوم پزشکی و خدمات بهداشتی درمانی شهید بهشتی، تهران، ایران، ۲۷-۲۵ آذر ماه ۱۳۸۸، صفحه ۷-۱.

۴۷- عادل رییسی- وانانی و **مسعود همدانیان**، " تهیه و شناسایی نانوذرات TiO_2 خالص و بهینه کردن آن با دوپ کردن با کبالت ' گوگرد و آهن -گوگرد و بررسی رفتار نور کاتالیزگری آنها در تجزیه متیل اورانژ و متیلن بلو در حضور نور مریی و فرابنفش"، ششمین همایش دانشجویی فناوری نانو، انسیتو تحقیقات تغذیه‌ای و صنایع غذایی کشور، دانشگاه علوم پزشکی و خدمات بهداشتی درمانی شهید بهشتی، تهران، ایران، ۲۷-۲۵ آذر ماه ۱۳۸۸، صفحه ۱۰-۱.

۴۶- **مسعود همدانیان**، عادل رییسی- وانانی، " تهیه و شناسایی نانوذرات TiO_2 دوپ‌شده با کبالت وبهینه‌کردن مقدار کبالت برای تجزیه‌ی متیل اورانژ در حضور نور مریی و فرابنفش"، اولین همایش سراسری نقش علوم پایه در فناوری نانو، دانشگاه امام حسین (ع)، تهران، ایران، ۱۸-۱۹ آذر ماه ۱۳۸۸، صفحه ۵۸۰-۵۷۸.

۴۵- **مسعود همدانیان**، عادل رییسی- وانانی، "بررسی اثر دمای کلسینه کردن در تهیه، تغییر فاز و رفتار نور کاتالیزگری نانوذرات S/TiO_2"، اولین همایش سراسری نقش علوم پایه در فناوری نانو، دانشگاه امام حسین (ع)، تهران، ایران، ۱۹-۱۸ آذر ماه ۱۳۸۸، صفحه ۵۷۷-۵۷۵.

۴۴- محسن بهپور، **مسعود همدانیان**، سید مهدی قریشی و اسراالسادات رضویان، "بررسی خاصیت فتوکاتالیستی لایه نازک دی اکسید تیتانیم تهیه شده به دو روش متفاوت سل ژل با استفاده از آب اکسیژنه و یا پلی اتیلن گلیکول"، اولین همایش سراسری نقش علوم پایه در فناوری نانو، دانشگاه امام حسین (ع)، تهران، ایران، ۱۹-۱۸ آذر ماه ۱۳۸۸، صفحه ۲۸۴-۲۸۱.

43- **M. Hamadanian**, A.Reisi-Vanani, "Preparation & Charactrization of Fe, S and Fe-s co-Doped TiO_2 Nanoparticles and Evaluation of Photocatalytic Activity", *Xth Netherlands Catalysis and Chemistry Conference*, Noordwijkerhout, University of Twente, Netherland, March, 2-4 2009, 208.

42- **M. Hamadanian**, M. Behpour and A. Razavian, "Photocatalytic Activity of the Metal Coated Titanium Oxide Nano Particles as Nano Layer on Glass Substrate", *IXth Netherlands Catalysis and Chemistry Conference*, Noordwijkerhout, University of Twente, Netherland, March, 3-5 2008, 204.

41- Z. Tavangar, **M. Hamadanian**, A.R. Ashrafi and H. Sabzyan, "Symmetry of a Capped Nanotube", *The Frist Conference and Workshop on Mathematical Chemistry*, Tarbiat Modares University, Tehran, Iran, January, 29-31 2008, 335-337.

40- **M. Hamadanian**, Z. tavangar, A.R. Ashrafi and H. Sabzyan, "Computing Distance Matrix and Wiener Index of a Capped Nanotube", *The Frist Conference and Workshop on Mathematical Chemistry*, Tarbiat Modares University, Tehran, Iran, January, 29-31 2008, 142-145.

۳۹- محسن بهپور، **مسعود همدانیان** و فایزه السادات رضوی، "ساخت نانو ذرات تثبیت شده بر روی سطح فلز تیتانیم و وارد نمودن نقره در شبکه نانو ذرات و بررسی اثر تجزیه فوتوشیمیایی متیل اورانژ به عنوان یک مدل"، دومین همایش دانشجویی نانوتکنولوزی، دانشگاه کاشان، کاشان، ایران، ۱۶-۱۴ شهریور ماه ۱۳۸۶، صفحه ۱۰۶.

38- **M. Hamadanian** and M. Oftadeh**,** "The Investigation of the Deflagration Pathway of CHNOF Explosives of tri-Cyclic nitramine Compounds by Ab initio and semiemperical calculations", *41st IUPAC World Chemistry Congress*, Turin, Italy, August, 5-11, 2007, 140.

37- M. Oftadeh and **M. Hamadanian,** "The Investigation of the Deflagration Pathway of CHNOF Explosives of Mono and Di Cyclic nitramine Compounds by Ab initio and semiemperical calculations", *41st IUPAC World Chemistry Congress*, Turin, Italy, August, 5-11, 2007, 134.

36- F.S. Hashemi, **M. Hamadanian**, M. Hassannejad and F. Forooghian, "Determination of the best molar ratio in the Support of Ziegler-Natta Catalyst with Quantum Mechanic Methods", *Proceeding of the 10th Iranian Physical Chemistry Seminar*, University of Isfahan, Isfahan, April, 23-27, 2007, 306-308.

35- **M. Hamadanian** and H. Sabzyan, "A Semiempirical Study of Perfluoroporphyrin Complexes with 3d Metal Ions", *Proceeding of the 10th Iranian Physical Chemistry Seminar*, University of Isfahan, Isfahan, April, 23-27, 2007, 303-305.

34- G.R. vakili-nezhaad, **M. Hamadanian** and M. Ghomashi, "Calculation of the Heat Capacities of Solid Phase Buckminster Fullerene by Using Semi-empirical methods", *Frist sharjah international conference on Nanotechnology and its applications*, Sharjah, United arab Emirates, April, 10-12, 2007, 48.

33- A. Kahani, **M. Hamadanian** and O. Vandadi, "Deposition of Magnetite Nanoparticles in Activated Carbons and preparation of Magnetic Activated Carbons", *Frist sharjah international conference on Nanotechnology and its applications*, Sharjah, United arab Emirates, April, 10-12, 2007, 80.

32- **M. Hamadanian**, M. Behpour and A. Razavian, "Preparing Ag-TiO_2 Nano-Photocatalyst and immobilized on the Surface substrate by sol-gel method", *Frist sharjah international conference on Nanotechnology and its applications*, Sharjah, United arab Emirates, April, 10-12, 2007, 106.

31- M. Salavati-Niasari, **M. Hamadanian** and E. Zamani, "Thermodynamic Theoretical Calculation, Synthesis and Liquid Phase Oxidation of Cyclohexanol Using *tert*-Butylhydro proxide Over Host/Guest

Nanocomposite Materials", *The 21th Dubrovnik International course & Conference on the interfaces among Mathematics, Chemistry and Computer Sciences*, Dubrovnik, Croatia, June, 19-24, 2006, 69.

30- **M. Hamadanian,** M. Oftadeh and R. Habibpour, "Investigation of explosive performance of mono-, bi- and tri-cyclic nitramines by ab-initio computational methods", *The 21th Dubrovnik International course & Conference on the interfaces among Mathematics, Chemistry and Computer Sciences*, Dubrovnik, Croatia, June, 19-24, 2006, 29.

29- **M. Hamadanian,** M. Ghorbani and A. R. Ashrafi, "Conting the Number of Hetero Fullerenes $C_{n-k}X_k$, for n = 180, 240, 260, 320, 540", *The 21th Dubrovnik International course & Conference on the interfaces among Mathematics, Chemistry and Computer Sciences*, Dubrovnik, Croatia, June, 19-24, 2006, 28.

28- **M. Hamadanian,** M. Behpour and G. R. Vatankhah, "New Schiff Bases as Corrosion Inhibitor for Copper Objects to Assist Curators in Treatments of Related Artworks: Theoretical Studies", *The 21th Dubrovnik International course & Conference on the interfaces among Mathematics, Chemistry and Computer Sciences*, Dubrovnik, Croatia, June, 19-24, 2006, 27.

27- Ali Reza Ashrafi and **M. Hamadanian**, Symmetry Property of Bis Benzene Chromium(0) with D6d Point Group", *Proceeding of the 9th Iranian Physical chemistry Seminar*, Guilan University, Rasht-Zibakenar, June, 13-15, 2006, 347-348.

26- A. Zolfaghari, H. Sayahi, **M. Hamedanian,** M. Behpour and M. Ghassemzadeh, "Study of Photocatalytic Activity and Photocorrosion Effect of Nano Layer of Titanium Oxide on Stainless Steel", *Proceeding of the 9th Iranian Physical chemistry Seminar*, Guilan University, Rasht- Zibakenar, June, 13-15, 2006, 99-101.

25- **M. Hamadanian** and R. Habibpour, "Computational study of explosion parameters for cyclic nitramines and their fluorinated derivatives", *Proceeding of the 9th Iranian Physical chemistry Seminar*, Guilan University, Rasht- Zibakenar, June, 13-15, 2006, 134-136.

24- **M Hamadanian**, M. Behpour and V. S. Farzadfar, "Spatial and Theoretical Interaction Studies of Some Novel Schiff Bases as Corrosion Inhibitors with Iron Surface", *Proceeding of the 12th Iranian Seminar of Organic Chemistry*, Ahwaz Jundi Shapour University of Medical Science, Ahwaz, March, 7-9, 2006, 576.

23- **M. Hamadanian,** M. Behpour and V. Farzadfar, "Theoretical Interaction Studies of Three New Schiff Bases as Corrosion Inhibitor With Copper Surface", *Proceeding of the 8th Iranian Physical chemistry Seminar*, Ferdowsi University of Mashhad, Mashhad, November, 21- 24, 2005, 358-361.

22- A. Zolfaghari, H. Sayahi, **M. Hamadanian** and M. Ghassemzadeh, "Electrodeposition of Titanium Oxide on Platinium and Stainless Steel Electrodes", *Proceeding of the 8th Iranian Physical chemistry Seminar*, Ferdowsi University of Mashhad, Mashhad, November, 21- 24, 2005, 169-171.

21- **M. Hamadanian,** A.H. Bamoniri and N. Mohajeri, "Theoretical Investigation of 1H and 13C NMR Chemical Shift for Secondary Nitrozoamines and Dinitrozoamines", *Proceeding of the 8th Iranian Physical chemistry Seminar*, Ferdowsi University of Mashhad, Mashhad, November, 21- 24, 2005, 141-143.

20- **M. Hamadanian and** A. H. Pakiari, "Description of Cumulated Double Bond Orbital in Molecules by FSGO Method", *Proceeding of the third of Payam-e-Noor Chemical Seminar*, Isfahan Payam-e-Noor University, Isfahan, May, 14-15, 2005, 164-167.

۱۹- **مسعود همدانیان**, جواد صفایی قمی و محمدحسین زارعی، "مطالعه واکنشهای دیلز آلدر اکسازولیدینون با ۱ و ۳ بوتادین و برخی از مشتقات آن با استفاده از برخی روشهای مکانیک کوانتوم"، چکیده *مقالات سومین همایش شیمی پیام نور*, دانشگاه پیام نور اصفهان, اصفهان, ۲۴-۲۶ اردیبهشت ۱۳۸۴, ۱۶۰-۱۵۷.

18- A. R. Ashrafi and **M. Hamadanian**, "On Symmetry of TetraamminePlatinum(II) with C_{2v} Point Group", *Proceeding of the 7th Iranian Physical chemistry Seminar*, Isfahan University of Technology, Isfahan, March, 8-10, 2005, 221 (1-3).

17- **M. Hamadanian**, G.R Vakili-Nezhaad and M. Ghomashi, "Calculation of Debye and Einstein Temperature for fullerene C_{60}", *Proceeding of the 7th Iranian Physical chemistry Seminar*, Isfahan University of Technology, Isfahan, March, 8-10, 2005, 220 (1-3).

16- **M. Hamadanian**, A. H. Bamoniri and K.Ostovar, "Computational Study of Decomposition Pathways for OctaNitroCubane (ONC) by Using ab initio Method", *Proceeding of the 7th Iranian Physical chemistry Seminar*, Isfahan University of Technology, Isfahan, March, 8-10, 2005, 219 (1-3).

15- A. R. Ashrafi and **M. Hamadanian**, "On Symmetry Properties of Some Chemical Graphs", *The Second Conference of the Asian Consortium on Computational Materials Science (ACCMS2) Novosibirsk, Russia, July, 14-16, 2004,* 80.

14- G. R. Vakili Nezhaad and **M. Hamadanian**, "Heat Capacities of Buckminister Fullerene", *The Second Conference of the Asian Consortium on Computational Materials Science (ACCMS2) Novosibirsk, Russia, July, 14-16, 2004,* 164.

13- **M. Hamadanian** and A. R. Ashrafi, "Group Theory for TetraamminePlatinum(II) with C_{2v} and C_{4v} Point Group in the Non-Rigid System", *The 39th IUPAC Congress and the 86th Conference of the Canadian Society for Chemistry,* Canada, August, 2003, PH. 9. P037, 363.

12- **M. Hamadanian** and A. R. Ashrafi, "The full non-rigid group theory for trimethylamine", *Proceeding of the 6th Iranian Physical chemistry Seminar*, Urmia University, Urmia, August, 27-29, 2002, 280.

11- **M. Hamadanian**, Z Tavangar and H. Hedayati, "Improved Description of One-Electron Orbital in AH_3 Systems by FSGO Method", *Proceeding of the 6th Iranian Physical chemistry Seminar*, Urmia University, Urmia, August, 27-29, 2002, 277.

10- **M. Hamadanian** and A. R. Ashrafi, "The full non-rigid group theory for cis- & trance-diamino dicholoro platinum (II) and trimethylamine", *Proceeding of the 17th Dubrovnik International course & Conference on the interfaces among Mathematics, Chemistry and Computer Sciences*, Dubrovnic, Croatia, June, 24-29, 2002, 30.

9- A. R. Ashrafi and **M. Hamadanian**, "The full non-rigid group theory for tetraamino platinum (II)", *Proceeding of the 17th Dubrovnik International course & Conference on the interfaces among Mathematics, Chemistry and Computer Sciences*, Dubrovnic, Croatia, June, 24-29, 2002, 2.

8- A. H. Bamoniri, **M. Hamadanian Khozani**, and S. Minaei, "Structural study of geometric isomers on some new acyclic monoterpenes by using AM1, PM3 methods", *Proceeding of the third congress of chemistry of Islamic azad university* of Tehran, Tehran, 2002, A-19.

7- **M. Hamadanian** and A. R. Ashrafi, "The full non-rigid group theory for trimethylamine", *Proceeding of AAA63-Workshop on General Algebra and CYA17-Conference of Young Algebraists*, February, 22-24, 2002, 3.

6- **M. Hamadanian**, A. H. Bamoniri, and S. Minaei, "Study of structure stability and yield of some enamines by using semi-empirical methods: MNDO, AM1, PM3, and MINDO/3", *Proceeding of 5th Conference of Physical Chemistry*, Persian Gulf university, Boshehr, January 31-February 2, 2002, 157.

5- A. H. Bamoniri, **M. Hamadanian Khozani**, and S. Minaei, "Determination of structure stability of some highly oxygenated acyclic monoterpenes by using semi-empirical method AM1, PM3", *Proceeding of 9th Iranian Seminar in Organic Chemistry*, Imam Hussein University, Tehran, October, 16-18, 2001, 59.

4- **M. Hamadanian Khozani**, A. H. Bamoniri, and S. Minaei, "Determination of percentage and structure stability of kinetic and thermodynamic products of some enamines by using quantumic data", *Proceeding of 9th Iranian Seminar in Organic Chemistry*, Imam Hussein University, Tehran, October, 16-18, 2001, 359.

3- **M. Hamadanian Khozani**, A. H. Bamoniri, and S. Minaei, "Quantum mechanical studies of enamines by using some semi-empirical methods", *Proceeding of 8th Iranian Seminar in Organic Chemistry*, Kashan University, Kashan, May, 17-19, 2000, 204.

2- A. Zeini-Isfahani and **M. Hamadanian Khozani**, "Photo-oxidation of Cyanide Ion by using TiO_2 and Pt/TiO_2", *Proceeding of 2nd Iranian Seminar of Physical Chemistry*, Isfahan University, Isfahan, August, 29-31, 1995, 22.

1- A. Zeini-Isfahani and **M. Hamadanian Khozani**, "Photo-oxidation of benzyl alcohol with TiO_2 and TiO_2 coated by Pt, Pd, Ni, Co, Cu, and Ag", *Proceeding of 9th Iranian chemistry and chemical engineering congress*, Tehran, September, 6-8, 1994, 69.