

CURRICULUM VITA

Name :	Fatemeh F. Bamoharram
Date of Birth:	1965
Place of Birth:	Mashhad, Iran
Marital Status:	Married, 2 Children
Appointment:	Professor
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- **Education:**

- **B.Sc:**

From: University of Birjand, Birjand, Iran (1993)

Major: Pure Chemistry

- **M.Sc:**

From: Ferdowsi University of Mashhad, Mashhad, Iran (1997)

Major: Inorganic Chemistry

Thesis: Synthesis and characterization of new compounds with formula of $(\text{THA})_{14-x}\text{H}_x [\text{NaP}_5\text{W}_{30}\text{O}_{110}]$ and $(\text{THPA})_{14-x}\text{H}_x [\text{NaP}_5\text{W}_{30}\text{O}_{110}]$ and determination of their acidic hydrogens.

- **Ph.D. Degree:**

From: Ferdowsi University of Mashhad, Mashhad, Iran (2003)

Major: Inorganic Chemistry

Thesis: Study of catalytic behavior of inorganic solid catalysts including Keggin, Dawson and Preyssler heteropolyacids.

- **Experiences & Activities**

- **Teaching**

Undergraduate Courses: Inorganic Chemistry, Discussions in Inorganic Chemistry, General Chemistry, Organometalic Chemistry, Nanotechnology, *etc.*

Graduate Courses: Advanced Inorganic Chemistry, Nanotechnology, Nanobiothecnology, Research methods, *etc.*

- **Research interests**

Polyoxometalates, Heteropolyacids, Nanocatalysts, Nanoparticles, Inorganic Chemistry, Catalysis, Organic Synthesis, Green Chemistry

- **National Patents:** 2 (two)

- **H Index: 39**

- **Research publications:**

- 1) Yasin Orooji, Bahareh Tanhaei, Ali Ayati, Soheil Hamidi Tabrizi, Marzieh Alizadeh, **Fatemeh F Bamoharram**, Fatemeh Karimi, Sadegh Salmanpour, Jalal Rouhi, Safoora Afshar, Mika Sillanpää, Rozhin Darabi & Hassan Karimi-Maleh. (2021). Heterogeneous UV-Switchable Au nanoparticles decorated tungstophosphoric acid/TiO₂ for efficient photocatalytic degradation process. *Chemosphere*, 281, 130795.
- 2) Amir Mohammad Mozhdehi, Amir Hossein Sharifi, Ahmad Ganjali, Ali Morsali, Sepehr Sharifi, Farnaz Naghavi, **Fatemeh F. Bamoharram** & Mika Sillanpää. (2021). Perception of the reciprocal influences of the formed interactions and hydrogen bonds, and adsorption energies between zinc-titanate nanoparticles/nano-silica/Dawson heteropolyacid hybrid- water on the positive alternation trends of the strength and properties of ordinary and self-compacting concrete: A systematic study through the quantum mechanical theory and experimental engineering studies. *Journal of Molecular Liquids*, 326, 115318.
- 3) Sara Saneinezhad, **Fatemeh F. Bamoharram**, Mehdi Pordel & Javad Baharara. (2021). One pot and green ultrasonic catalytic synthesis of catenated nanocellulose by sodium 30-tungston pentaphosphate polyoxometalate as an interlocked surface stabilizer and its application for surface loading of L-ascorbic acid. *Chemical Papers*, 75 (2) 471-483.
- 4) Safieh Fazel Razavi, **Fatemeh F. Bamoharram** & Abolghasem Davoodnia. (2021). An eco-friendly supramolecular hydrogel based-on [NaP₅W₃₀O₁₁₀]¹⁴⁻ as a giant inorganic cluster crosslinker: Green synthesis, characterization, and study of thermal and mechanical properties. *Journal of Molecular Structure*, 1221, 128752.
- 5) Amir Hossein Sharifi, Iman Zahmatkesh, Amir Mohammad Mozhdehi, Ali Morsali & **Fatemeh F. Bamoharram**. (2020). Stability appraisalment of the alumina-brine nanofluid in the presence of ionic and non-ionic disparents on the alumina nanoparticles surface as heat transfer fluids: Quantum mechanical study and Taguchi-optimized experimental analysis. *Journal of Molecular Liquids*, 319, 113898.

- 6) Mehdi Jafari, Amir Mohammad Mozhdehi, Ahmad Ganjal & **Fatemeh F. Bamoharram**. (2020). Nanoclay-Supported Preyssler Heteropolyacid (NCP): an Effective Nanocomposite to Improve the Compressive Strength of Concrete. *Journal of Science and Engineering Elites*, 5 (4) 99-103.
- 7) Sara Saneinezhad, Leila Mohammadi, Vahideh Zadsirjan & **Fatemeh F. Bamoharram**, Majid M Heravi. (2020). Silver nanoparticles-decorated Preyssler functionalized cellulose biocomposite as a novel and efficient catalyst for the synthesis of 2-amino-4*H*-pyrans and spirochromenes. *Scientific reports*, 10 (1) 1-26.
- 8) Mohammadreza Abdollahi, Javad Baharara, Khadije Shahrokhbabadi & **Fatemeh F. Bamoharram**, Zohreh Saadatfar. (2020). The Effect of Green Gold Nanoparticles Synthesized with the *Achillea millefolium* Extract on the Morphometric and Developmental Indices of Preantral Follicles in Immature NMRI Mice. *Thrita*, 9 (2) e111340.
- 9) Safieh Fazel Razavi, **Fatemeh F. Bamoharram**, Toktam Hashemi, Khadijeh Shahrokhbabadi & Abolghasem Davoodnia. . (2020). Nanolipid-loaded Preyssler polyoxometalate: Synthesis, characterization and invitro inhibitory effects on HepG2 tumor cells. *Toxicology in vitro*, 68,104917.
- 10) Mozhdehi, A. M., **Bamoharram, F. F.**, Morsali, A., Sharifi, A. H., Sharifi, S., & Ganjali, A. (2020). Comprehension of the role of created hydrogen bonds and adsorption energy in polyamide-nanosilica-Keggin hybrid/water on enhancement of concrete compressive strength: DFT calculations and experimental investigations. *Journal of Molecular Liquids*, 297, 111912.
- 11) Saneinezhad, S., **Bamoharram, F. F.**, Mozhdehi, A. M., Sharifi, A. H., Ayati, A., Pordel, M., & Sillanpää, M. (2020). Functionalized cellulose-preyssler heteropolyacid bio-composite: An engineered and green matrix for selective, fast and in-situ preparation of Pd nanostructures: synthesis, characterization and application. *Arabian Journal of Chemistry*, 13(3), 4644-4660.
- 12) Samini, N., Beyramabadi, S. A., & **Bamoharram, F. F.** (2019). Cu (II) Complex of a Schiff Base Derived from Pyridoxal: Synthesis, Experimental Characterization, DFT Studies, and Aim Analysis. *Journal of Structural Chemistry*, 60(8), 1256-1266.
- 13) Afifeh, M. R., Ahmadpour, A., Hamed Mosavian, M. T., Ayati, A., **F Bamoharram, F.**, & Ahmadi Hekmatikar, F. (2019). A green approach to the facile synthesis of colloidal platinum nanoparticles by Preyssler polyoxometalate. *Journal of Nanostructures*, 9(2), 249-257.
- 14) Amir Hossein Sharifi, Iman Zahmatkesh , **Fatemeh F. Bamoharram**, Amir Hossein Shokouhi Tabrizi, Safieh Fazel Razavi, Sara Saneinezhad. (2020), Experimental Measurement of Thermophysical Properties of Alumina-MWCNTs/Salt–Water Hybrid Nanofluids, *Current Nanoscience*, 16, 1-14.
- 15) Sharifi, Amirhossein, Iman Zahmatkesh, and **Fatemeh F. Bamoharram**. "Effect of Concentration and Temperature on Viscosity of Titanium Dioxide

- Nanofluid in Saltwater as Base Fluid." (2019): Journal of Science and Engineering Elites, 63-67.
- 16) **Bamoharram, F. F.**, Mozhdehi, A., Radfar, A., Shaker, M., Mallaeke, H., & Sharifi, A. H. (2018). Preyssler-based nanocomposite as a magnetic photocatalyst: synthesis, characterisation and its photocatalytic activity for decolourisation of rhodamine B. *Micro & Nano Letters*, 13(12), 1657-1661.
 - 17) Rashidi, H., Ahmadpour, A., Gholizadeh, M., **Bamoharram, F. F.**, & Moosavi, F. (2018). Effect of magnetized ethanol on the shape evolution of zinc oxide from nanoparticles to microrods: experimental and molecular dynamic simulation study. *Advanced Powder Technology*, 29(2), 349-358.
 - 18) Dehghan, M., Davoodnia, A., Bozorgmehr, M. R., & **Bamoharram, F. F.** (2017). Fast Synthesis and Antibacterial Evaluation of Benzimidazo [2, 1-b] quinazolin-1-ones: Another Successful Application of Newly Prepared SO₃H-Functionalized Ionic Liquids as Catalysts. *Organic Preparations and Procedures International*, 49(3), 236-248.
 - 19) Tanhaei, B., Ayati, A., **Bamoharram, F. F.**, & Sillanpää, M. (2017). Magnetic EDTA functionalized Preyssler cross linked chitosan nanocomposite for adsorptive removal of Pb (II) ions. *CLEAN–Soil, Air, Water*, 45(10), 1700328.
 - 20) Dehghan, M., Davoodnia, A., Bozorgmehr, M. R., & **Bamoharram, F. F.** (2017). Evaluation of catalytic activity of two newly prepared functionalized sulfonic acids ionic liquids in the synthesis of carbamatoalkyl naphthols under mild conditions. *Russian Journal of General Chemistry*, 87(2), 311-315.
 - 21) Neda Rohani, **Fatemeh F. Bamoharram**, Azam Marjani, Majid M. Heravi, "Gold nanoparticles Wells–Dawson heteropolyacid nanocomposite film as an effective nanocatalyst in photocatalytic removal of azo dyes from wastewaters", *J Nanostruct Chem*, 2017, online, DOI 10.1007/s40097-017-0218-5.
 - 22) Rohani, M., **F Bamoharram, F.**, Bazoobandi, M., Khosravi, M., & Baharara, J. (2017). Activated Rice Bran Supported Preyssler Heteropolyacid: A New, Green and Recyclable Biocomposite for Adsorption of Toxic Dyes. *Current Nanoscience*, 13(3), 305-310.
 - 23) Rohani, M., **Bamoharram, F. F.**, Khosravi, M., Baharara, J., & Heravi, M. M. (2017). Preparation and characterisation of Preyssler heteropolyacid-cellulose acetate hybrid nanofibers: a new, green and recyclable nanocatalyst for photodegradation of methyl orange as the model dye. *Journal of Experimental Nanoscience*, 12(1), 1-13.
 - 24) Rohani, N., **F Bamoharram, F.**, Marjani, A., & M Heravi, M. (2016). A novel photochromic film based on Preyssler heteropolyacid and gold

nanoparticles as a green and recyclable nanocatalyst for removal of azo dye from wastewaters. *Current Nanoscience*, 12(5), 605-610.

- 25) Ali Ayati , Bahareh Tanhaei , **Fatemeh F. Bamoharram** , Ali Ahmadpour , Philipp Maydannik ,Mika Sillanpää , "Photocatalytic degradation of nitrobenzene by gold nanoparticles decorated polyoxometalate immobilized TiO₂ nanotubes", *Separation and Purification Technology* 171 (2016) 62–68.
- 26) Ali Ayati, Majid M. Heravi, Mansoureh Daraie, Bahareh Tanhaei, **Fatemeh F. Bamoharram** & Mika Sillanpää, "H₃PMo₁₂O₄₀ immobilized chitosan/Fe₃O₄ as a novel efficient, green and recyclable nanocatalyst in the synthesis of pyranopyrazole derivatives", *J IRAN CHEM SOC* (2016) 13:2301–2308.
- 27) Ali Javid, Amir Khojastehnezhad, Hossein Eshghi, Farid Moeinpour, **Fatemeh F. Bamoharram**, and Javad Ebrahimi, "Synthesis of Pyranopyrazoles using a Magnetically Separable Modified Preyssler Heteropoly Acid", *Organic Preparations and Procedures International*, 48:377–384, 2016.
- 28) Maryam Dehghan, Abolghasem Davoodnia, Mohammad R. Bozorgmehr, and **Fatemeh F. Bamoharram** "SYNTHESIS, CHARACTERIZATION AND APPLICATION OF TWO NOVEL SULFONIC ACID FUNCTIONALIZED IONIC LIQUIDS AS EFFICIENT CATALYSTS IN THE SYNTHESIS OF 1,8-DIOXO-OCTAHYDROXANTHENES", *Heterocyclic Letters*, Vol. 6, No.2,251-257, Feb-April 2016, ISSN : (print) 2231–3087 / (online) 2230-9632.
- 29) B. Alimadadi, M.M. Heravi, N. Nazari, H. Abdi Oskooie and **F.F. Bamoharram** , "An efficient one-pot three-component synthesis of pyrido[2,3-d]pyrimidine derivatives in the presence of nano silica-supported Preyssler H₁₄[NaP₅W₃₀O₁₁₀]/SiO₂ as a green and reusable catalyst" , *Scientia Iranica C* (2016) 23(6), 2717-2723.
- 30) Nafiseh Toutounchian, Ali Ahmadpour, Majid M. Heravi, **Fatemeh F. Bamoharram**, Ali Ayati, F Deymeh, "Investigation of linear alkylbenzene synthesis using nanotitania-supported Dawson heteropolyacid as catalyst by statistical design approaches", *Research on Chemical Intermediates*, Volume 42, Issue 4, April 2016, Pages 3283-3301.
- 31) Ali Ahmadpour, Mohamad Reza Afifeh, Seyed Mojtaba Zebarjad, Ali Ayati, **Fatemeh F. Bamoharram**, "Synthesis and Characterization of Au NPs/Molybdophosphoric Acid/CNT Tricomponent Nanohybrid " , *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, Volume 46, Issue 4, 2 April 2016, Pages 596-601.
- 32) Sara Khadempir, Ali Ahmadpour, Mohammad T. Hamed Mosavian, Narges Ashraf, **Fatemeh F. Bamoharram**, R. Fernández-Pacheco, J. M. De La Fuente, Scott G. Mitchell, " Mechanistic insights into the activation process in electrocatalytic ethanol oxidation by phosphomolybdic acid-stabilised

- palladium(0) nanoparticles (PdNPs@PMO₁₂) ", RSC Advances, Volume 6, Issue 7, 2016, Pages 5359-5366.
- 33) Bahareh Tanhaei, Ali Ayati, **Fatemeh F Bamoharram**, Manu Lahtinen, Mika Sillanpää, "A novel magnetic Preyssler acid grafted chitosan nano adsorbent: Synthesis, characterization and adsorption activity, Journal of Chemical Technology and Biotechnology", Volume 91, Issue 5, May 2016, pages 1452–1460.
 - 34) Mohammad- Saleh Zabihi, Jahan Bakhsh Raoof, Mahmoud Reza Sohrabi, Sayed Reza Hosseini, **Fatemeh F. Bamoharram**, " Application of phosphotungstic acid–nickel composite- modified carbon paste electrode for electrocatalytic oxidation of methanol in alkaline solution", Journal of Iranian Chemical Society, 2016, In Press.
 - 35) **Fatemeh. F. Bamoharram**, Saideh Kadkhodaei, Ali Ayati, Javad Baharara, Majid. M. Heravi," Mono-substituted molybdenum Preyssler heteropolyacid: An eco-friendly photocatalyst for the synthesis of gold nanoparticles in solution and titanium dioxide surface with excellent photoactivity in combination with titanium dioxide", Current Nanoscience, Volume 11, Issue 1, 1 January 2015, Pages 80-86.
 - 36) Ezzat Naddaf, Mahmoud Ebrahimi, Zarrin Es'haghi, **Fatemeh F. Bamoharram**, "Application of carbon nanotubes modified with a Keggin polyoxometalate as a new sorbent for the hollow-fiber micro-solid-phase extraction of trace naproxen in hair samples with fluorescence spectrophotometry using factorial experimental design", Journal of Separation Science, Volume 38, Issue 13, 1 July 2015, Pages 2348-2356.
 - 37) Ali Ayati, , Bahareh Tanhaei, Mika Lahtinen, **Fatemeh F. Bamoharram**, Mika Sillanpää, "Phosphotungstic acid (PTA) in the synthesis of 3D CdS superstructures by diffusion assisted hydrothermal method", Advanced Powder Technology, Volume 26, Issue 5, 1 September 2015, Pages 1495-1503.
 - 38) Hamid Momahedi Heravi, Saeed Baghdar Hoseini, **Fatemeh F. Bamoharram**, Javad Baharara, "The effect of various vegetable oils on pollutant emissions of biodiesel blends with gasoil in a furnace", Thermal Science, 2015, Vol. 19, Issue 6, Pages 1977 – 1984.
 - 39) Sara Khadempir, Ali Ahmadpour, Mohammad T. Hamed Mosavian, Narges Ashraf, **Fatemeh F. Bamoharram**, Scott G. Mitchell, Jesús M. de la Fuente, " A polyoxometalate-assisted approach for synthesis of Pd nanoparticles on graphene nanosheets: synergistic behaviour for enhanced electrocatalytic Activity", RSC Advances, Volume 5, 2015, Pages 24319–24326.
 - 40) Hossein Eshghi, Ali Javid, Amir Khojastehnezhad, Farid Moeinpour, **Fatemeh F. Bamoharram**, Mehdi Bakavoli, Masoud Mirzaei, "Preyssler heteropolyacid supported on silica coated NiFe₂O₄ nanoparticles for the catalytic synthesis of bis(dihydropyrimidinone)benzene and 3,4-

- dihydropyrimidin-2(1H)-ones", Chinese Journal of Catalysis, Volume 36, Issue 3, 2015, Pages 299-307.
- 41) Ali Ayati , Ali Ahmadpour , **Fatemeh F. Bamoharram** , Bahareh Tanhaei , Mika Mänttari , Manu Lahtinen , Mika Sillanpää, "Novel Au NPs/Preyssler acid/TiO₂ nanocomposite for the photocatalytic removal of azo dye", Separation and Purification Technology, Volume 133, 2014, Pages 415-420.
 - 42) Shahrzad Javanshir, Allen Ohanian, Majid M. Heravi, M.R. Naimi-Jamal, **Fatemeh F. Bamoharram**, " Ultrasound-promoted, rapid, green, one-pot synthesis of 2'-aminobenzothiazolomethylnaphthols via a multi-component reaction, catalyzed by heteropolyacid in aqueous media", Journal of Saudi Chemical Society, Volume 18, Issue 5, 2014, Pages 502-506.
 - 43) Ali Ayati, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Bahareh Tanhaei, Mika Mänttari, Mika Sillanpää, " A review on catalytic applications of Au/TiO₂ nanoparticles in the removal of water pollutant", Chemosphere, Volume, 107, 2014, pages 163-174.
 - 44) Hamed Rashidi, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Seyed Mojtaba Zebarjad, Majid M. Heravi, Faranak Tayari, " Controllable one-step synthesis of ZnO nanostructures using molybdophosphoric acid", Chemical Papers, Volume 68, 2014, pages 516-524.
 - 45) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Javad Ebrahimi , Nilofar Tavakoli-Hoseini, " Esterification of Salicylic Acid Using Brønsted Acidic Ionic Liquid based on Keggin Heteropoly Acid", Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, Volume 44, 2014, pages 36-42.
 - 46) **Fatemeh. F. Bamoharram**, Elahe Valizadeh, Ali Ayati, Javad Baharara , Majid M. Heravi, " Preyssler Heteropolyacid-assisted Rapid and Green Bio-synthesis of Gold Nanoparticles in the Presence of Chaetomorpha Linum", Current Nanoscience, Volume 10, 2014, pages 596-603.
 - 47) **Fatemeh. F. Bamoharram**, Sudabeh Hashemi, Majid M. Heravi, Hamed Rashidi , Ali Ayati, " Preyssler Heteropolyacid: A Green and Eco-friendly Catalyst in the Hydrothermal Synthesis of ZnO Nanostructures and their Applications in photodegradation of Azo Dyes", Current Nanoscience Volume 10, 2014, pages 1-7.
 - 48) **Fatemeh. F. Bamoharram**, Naghmeh. Hasanzadeh, Majid. M. Heravi, Ali. Ahmadpour, Ali. Ayati , Mika. Sillanpää, " Endohedral Functionalization of Multi Wall Carbon Nanotubes by Acidic Cesium Salt of Preyssler in Nano Size", Micro and Nano Letters, Volume 9, 2014, pages 198-201.
 - 49) **Fatemeh. F. Bamoharram**, Seyed Heydar Niknezhad, Javad Baharara, Ali Ayati, Mahmood Ebrahimi, Majid M. Heravi," Amine-functionalized nanosilica supported- Dawson heteropolyacid : An eco-friendly and reusable photocatalyst for photodegradation of malachite green", Journal of Nanostructure in Chemistry, Volume 88, 2014, pages 1-6.

- 50) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Ali Ayati, Javad Baharara, Afsaneh Moghadam Jafari, Mahmoud Ebrahimi, " Acidic cesium salt of Preyssler nanoparticles: A new, green and recyclable nanocatalyst for synthesis of 6-aryl-1H-pyrazolo[3,4-d]pyrimidin-4[5H]-ones", *Journal of Nanostructure in Chemistry*, Volume 93, 2014, pages 1-5.
- 51) **F. F. Bamoharram**, M. Poorzaki, A. Morsali, S. Beiramabadi, A. Ahmadpour, M.M. Heravi, A. Ayati, " Synthesis and Characterization of Modified Carbon Nanotubes with Potassium salts of the Monosubstituted Keggin Polyoxometalates", *Micro and Nano Letters*, Volume 9, Issue 7, 2014, pages 482 - 485.
- 52) Ali. Hafizi, Ali. Ahmadpour, Majid. M. Heravi, **Fatemeh. F. Bamoharram**, " The Application of Silica-Supported Preyssler HPA as a Heterogeneous and Green Catalyst for the Alkylation of Benzene", *Petroleum Science and Technology*, Volume 32, 2014, pages 1022-1027.
- 53) Ali. Hafizi, Ali. Ahmadpour, M. Koolivand-Salooki, Majid.M. Heravi, **Fatemeh. F. Bamoharram**, " Comparison of RSM and ANN for the investigation of linear alkylbenzene synthesis over $H_{14}[NaP_5W_{30}O_{110}]/SiO_2$ catalyst", *Journal of Industrial and Engineering Chemistry*, Volume, 2013, pages 1981-1989.
- 54) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Sara Saneinezhad, Ali Ayati, " Synthesis of a nano organo-silicon compound for building materials waterproofing, using heteropolyacids as a green and eco-friendly catalyst", *Progress in Organic Coatings*, Volume 76, 2013, pages 384-387.
- 55) Hamed Rashidi, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M. Heravi, Ali Ayati, " The novel, one step and facile synthesis of ZnO nanoparticles using heteropolyoxometalates and their photoluminescence behavior", *Advanced Powder Technology*, Volume 24, 2013, pages 549-553.
- 56) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Raheleh Omidinia, Niloofar Tavakoli-Hoseini, " Tetrabutylammoniumhexatungstate (VI), $[(n-C_4H_9)_4N]_2[W_6O_{19}]$: As a Green and Recyclable Isopolyanion Catalyst in Oxidation of Benzaldehydes", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 43, 2013, pages 125-130 .
- 57) **Fatemeh. F. Bamoharram**, Afsaneh Moghadam Jafari, Ali Ayati, Bahareh Tanhaei, Mika Sillanpää, "Cesium Salt of Sodium 30-Tungstopentaphosphate: An Effective and Green Polyoxometalate for Synthesis of Gold Nanoparticles along with Decoration of Titanium Dioxide with Gold Nanoparticles for Bleaching of Malachite Green", *International Journal of Photoenergy*, Volume 2013, 2013, pages 1-8.
- 58) **Fatemeh. F. Bamoharram**, " Heteropolyacid catalyzed click synthesis of 5-substituted 1H-tetrazoles from [bmim]N₃ and nitriles under solvent-free conditions", *Monatshefte für Chemie*, Volume 144, 2013, pages 1407-1410.

- 59) **Fatemeh. F. Bamoharram,** " One-Pot, Three Component Synthesis of 2,5-Disubstituted 1,3,4-Oxadiazoles Catalyzed by Heteropolyacid", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 43, 2013, pages 259-263.
- 60) **Fatemeh. F. Bamoharram,** " Dawson Heteropolyacid: A Green, Eco-Friendly, and Reusable Catalyst for One-Pot Synthesis of 4-Aminoquinazolines, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 43, 2013, pages 539-542.
- 61) Ali. Hafizi, Ali. Ahmadpour, Majid M. Heravi, **Fatemeh. F. Bamoharram,** M. Khosroshahi," Alkylation of Benzene with 1-Decene Using Silica Supported Preyssler Heteropoly Acid: Statistical Design with Response Surface Methodology", *Chinese Journal of Catalysis*, Volume 33, 2012, pages 494-501.
- 62) Mahmoud Ebrahimi, Zarrin Es'haghi, Fatemeh Samadi, **Fatemeh. F. Bamoharram,** Mohammad-Saeid Hosseini," Rational design of heteropolyacid-based nanosorbent for hollow fiber solid phase microextraction of organophosphorus residues in hair samples", *Journal of Chromatography(A)*, Volume 1225, 2012, pages 37-44.
- 63) Ali Javid, Majid M. Heravi, **Fatemeh. F. Bamoharram,** " One-pot three-component synthesis of β -acetamido carbonyl compounds catalyzed by heteropoly acids", *Monatshefte für Chemie*, Volume 143, 2012, pages 831-834.
- 64) AliAyati, Ali. Ahmadpour, **Fatemeh. F. Bamoharram,** Majid M. Heravi, Mika Sillanpää," Rate redox-controlled green photosynthesis of gold nanoparticles using $H_{3+x}PMO_{12-x}V_xO_{40}$ ", *Gold Bulletin*, Volume 45, 2012, pages 145-151.
- 65) Radineh Motamedi, Saeede Baghbani, **Fatemeh. F. Bamoharram,** " Catalytic Method for Synthesis of Benzopyrano[3,2-c]chromene-6,8-dione Derivatives by Heteropoly Acids", *Synthetic Communications*, Volume 42, 2012, pages 1604-1612.
- 66) Ali Javid, Amir Khojastehnezhad, Majid Heravi , **Fatemeh. F. Bamoharram,** " Silica-Supported Preyssler Nanoparticles Catalyzed Simple and Efficient One-Pot Synthesis of 1,8-Dioxodecahydroacridines in Aqueous Media", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 42, 2012, pages 14-17.
- 67) Majid M. Heravi, Hamideh Alinejhad, Fatemeh Derikvand, Hossein A. Oskooie, Bita Baghernejad, **Fatemeh. F. Bamoharram,** " NH_2SO_3H and $H_6P_2W_{18}O_{62} \cdot 18H_2O$ -Catalyzed, Three-Component, One-Pot Synthesis of Benzo[c]acridine Derivatives", *Synthetic Communications*, Volume 42, 2012, pages 2033-2039.

- 68) Ali Ahmadpour ,Bahareh Tanhaei, **Fatemeh. F . Bamoharram**, Ali Ayati, Mika Sillanpää," Green,Rapid and Facile HPMo-Assisted Synthesis of Silver Nanoparticles", *Current Nanoscience*, Volume 8, 2012, pages 880-884.
- 69) H. Nazari, AliAhmadpour, **Fatemeh. F . Bamoharram**, Majid M.Heravi, N.Eslami," Comparison of Catalysts Preyssler and Silica-Supported Nano Preyssler in the Synthesis of Acetyl Salicylic Acid", *E-Journal of Chemistry*, Volume 9, 2012, pages 272-276.
- 70) Ali. Ayati, Ali. Ahmadpour, **Fatemeh . F. Bamoharram**, Majid M.Heravi, " A Green and Simple Route for the Controlled-Size Synthesis of Gold Nanoparticles Using Preyssler Heteropolyacid", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 42, 2012, pages 1309-1314.
- 71) Ali. Ayati, Ali. Ahmadpour, **Fatemeh . F. Bamoharram**, Majid M Heravi, Hamed Rashidi," Optimization of the experimental conditions in synthesis of Au NPs using Preyssler heteropolyacid based on the Taguchi robust design", *NANO*, Volume 7, 2012, pages 1250002:1-10.
- 72) **Fatemeh. F. Bamoharram**, Ali Ahmadpour, Majid M . Heravi, Ali Ayati, Hamed Rashidi, Bahareh Tanhaei, "Recent advances in application of polyoxometalates for the synthesis of nanoparticles", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 42, 2012, pages 209-230.
- 73) **Fatemeh. F. Bamoharram** , "Synthesis of Carbonyl Compounds in the Presence of NanoPreyssler as Green and Recyclable Catalyst by Photocatalytic Oxidation of Benzaldehydes and Benzyl Alcohols", *Asian Journal of Chemistry* , Volume 24, Issue 1, 2012, Pages 309-313.
- 74) **Fatemeh. F. Bamoharram**," Role of Polyoxometalates as Green Compounds in Recent Developments of Nanoscience", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 41, 2011, pages 893-922.
- 75) **Fatemeh. F. Bamoharram**, Majid M. Heravi , Hoda Teymouri, Mojtaba Zebarjad, Ali Ahmadpour," Preyssler heteropolyacid supported on nano-SiO₂: A green and reusable catalyst in selective oxidation of benzyl alcohols to benzaldehydes", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, Volume 41, 2011, pages 1221-1228.
- 76) Majid M. Heravi, Niloofar Tavakoli-Hoseini,**Fatemeh. F. Bamoharram**, "Brønsted Acidic Ionic Liquids as Efficient Catalysts for the Synthesis of Amidoalkyl Naphthols", *Synthetic Communications*, Volume 41, 2011, pages 298-306.
- 77) Sadegh Allameh, Majid M. Heravi, Mehdi Hashemi, **Fatemeh.F. Bamoharram**," Synthesis of 3-(aryl)-2-thioxo-2,3-dihydroquinazolin-4(1H)-one derivatives using heteropolyacids as green, heterogeneous and recyclable catalysts", *Chinese Chemical Letters*, Volume 22, 2011, pages 131-134.

- 78) **58)** Majid M. Heravi, Niloofar Tavakoli-Hoseini, **Fatemeh. F. Bamoharram**," Brønsted Acidic Ionic Liquids: New, Efficient, and Green Promoter System for the Synthesis of 4(3H)-Quinazolinones", *Synthetic Communications*, Volume 41, 2011, pages 707-714.
- 79) Ali Javid, Majid M. Heravi, **Fatemeh. F. Bamoharram**," One-pot synthesis of 1,8-dioxo-octahydroxanthenes utilizing silica-supported Preyssler nano particles as novel and efficient reusable heterogeneous acidic catalyst", *E-Journal of Chemistry*, Volume 8, 2011, pages 910-916.
- 80) Fatemeh Hakimi, Masoumeh Tabatabaee, Majid M. Heravi, Mina Roshani, **Fatemeh. F. Bamoharam**," Heteropoly acids catalyzed selective cyclization of 6-alkyl-3-propargylmercapto-1,2,4-triazin-5(2H)-one", *E-Journal of Chemistry*, Volume 8, 2011, pages 798-802.
- 81) Majid .M. Heravi, Nilofar. Tavakoli-Hoseini, **Fatemeh. F. Bamoharram**," A modified reaction for the preparation of amidoalkyl naphthols using silica-supported Preyssler nano particles", *Bulgarian Chemical Communications*, Volume 43, 2011, pages 423-426.
- 82) Niloofar Tavakoli-Hoseini , Majid M. Heravi, **Fatemeh.F. Bamoharram**, Abolghasem Davoodnia , Mitra Ghassemzadeh," An unexpected tetracyclic product isolated during the synthesis of biscoumarins catalyzed by [MIM(CH₂)₄SO₃H][HSO₄]: Characterization and X-ray crystal structure of 7-(2-hydroxy-4-oxo-4H-chromen-3-yl)-6H,7H-chromeno[4,3-b]chromen-6-one", *Journal of Molecular Liquids*, Volume 163, 2011, pages 122-127.
- 83) Niloofar Tavakoli-Hoseini, Majid M. Heravi, **Fatemeh. F. Bamoharram**, Abolghasem Davoodnia," Brønsted Acidic Ionic Liquids as Efficient Catalysts for Clean Synthesis of Carbamatoalkyl Naphthols", *Bulletin of the Korean Chemical Society*, Volume 32, 2011, pages 787-792.
- 84) Ali Ayati, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M. Heravi, Hamed Rashidi, "Photocatalytic Synthesis of Gold Nanoparticles Using Preyssler Acid and Their Photocatalytic Activity", *Chinese Journal of Catalysis*, Volume 32, 2011, pages 978-982.
- 85) Shahrzad Javanshir, Allen Ohanian, Majid M. Heravi, M.R. Naimi-Jamal, **Fatemeh. F. Bamoharram**," Ultrasound-promoted, rapid, green, one-pot synthesis of 2'-aminobenzothiazolomethylnaphthols via a multi-component reaction, catalyzed by heteropolyacid in aqueous media", *Journal of Saudi Chemical Society*, Volume, 2011, pages 1-6.
- 86) Majid M. Heravi, Hamideh Alinejhad, Khadijeh Bakhtiari, Mina Saeedi , Hossein A.Oskooie,**Fatemeh. F. Bamoharram**," SOLVENT-FREE SYNTHESIS OF XANTHENE DERIVATIVES BY PREYSSLER TYPE HETEROPOLYACID", *Bulletin of the Chemical Society of Ethiopia*, Volume 25, 2011, pages 399-406.

- 87) **Fatemeh. F. Bamoharram**, Jamshid. Chamani , Majid. M. Heravi , M. Azimzadeh," A Spectroscopic Study on the Interaction of Silver Nanoparticles and Human Hemoglobin in Thalassaemia and Normal Persons", Journal of Nanostructure in Chemistry, Volume 2, 2011, pages 23-28.
- 88) Ali Ayati, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M . Heravi, Hamed Rashidi, Bahareh Tanhaei," Application of a New Photocatalyst in the Preparation of Silver Nanoparticles and investigating Their Photocatalytic activity", Journal of Nanostructure in Chemistry, Volume 2, 2011, pages 15-22.
- 89) Ali Ayati, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M . Heravi, Hamed Rashidi, Bahareh Tanhaei," Application of Molybdophosphoric Acid as Reducing Agent/Stabilizer in the Synthesis of Gold Nanoparticles under UV Irradiation", International Journal of Nanoscience and Nanotechnology, Volume 7, 2011, pages 87-93.
- 90) Ali Hafizi, Ali Ahmadpour, Majid m. Heravi, **Fatemeh. F. Bamoharram**," Investigation of silica-supported Preyssler nanoparticles as nanocatalysts in alkylation of benzene with 1-decene using artificial intelligence Approach", Journal of Nanotechnology in Engineering and Medicine, Volume 2, 2011, pages 1-5.
- 91) H. Nazari , Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M . Heravi, N. Eslami," Highly Efficient Synthesis of Aspirin in the Presence of Silica-supported Preyssler Nanoparticles as a Green and Reusable Catalyst", Journal of Nanostructure in Chemistry, Volume 2, 2011, pages 171-178.
- 92) **Fatemeh. F. Bamoharram**,"Nano-Preyssler Heteropolyacid: A Novel Nanocatalyst for Poly-Condensation of Benzyl Alcohols", Asian Journal of Chemistry; Volume 23, No. 1 , 2011 , Pages 177-179.
- 93) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Mohammad Javad Sane Charkhi, " Multicomponent, Solvent-Free Synthesis of 1-Amidoalkyl-2-Naphthols in the Presence of $H_3+xPMo_{12-x}V_xO_{40}$ Heteropolyacids as Recyclable and Green Catalysts", E-Journal of Chemistry , Volume 8, No. 2 , 2011 , Pages 523-528.
- 94) **Fatemeh. F. Bamoharram**, Ali Ahmadpour, Majid .M. Heravi, Mohammad Javad Sane Charkhi, " Bulk and Activated Carbon-Supported Tungstophosphoric Acid as Recyclable and Green Catalyst for One-Pot Synthesis of B-Acetamido Ketones and Esters ", E-Journal of Chemistry , Volume 8, No. 2 , 2011 , Pages 689-696.
- 95) **Fatemeh. F. Bamoharram** , "Preparation of ZnO Nanorods in the Presence of Nano PreysslerAs a Green and Eco-friendly Polyoxometalate and Its Photocatalytic Activity in Photodegradation of Methyl Orange", Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, Volume 41, 2011, pages 571-576.

- 96) Fatemeh Hakimi¹, Masoumeh Tabatabaee, Majid M. Heravi, Mina Roshani, **Fatemeh. F. Bamoharram**, " Heteropoly acids catalyzed selective cyclization of 6-alkyl-3-propargylmercapto-1,2,4-triazin-5(2H)-one", E-Journal of Chemistry , Volume 8, Issue 2, 2011, Pages 798-802.
- 97) **Fatemeh. F. Bamoharram**, Majid M . Heravi, Javad Ebrahimi, Ali Ahmadpour, Mojtaba Zebarjad "Catalytic Performance of Nano-SiO₂-Supported Preyssler Heteropolyacid in Esterification of Salicylic Acid with Aliphatic and Benzylic Alcohols", CHINESE JOURNAL OF CATALYSIS , Volume 32, Issue 5, 2011, Pages 782-788.
- 98) **Fatemeh. F. Bamoharram** , Majid M. Heravi, mina Roshani, Mahsa Monabati, "One-Pot Multi Component Synthesis of 4-Arylaminoquinazolines in the Presence of Sodium 30-Tungstophosphate", Asian Journal of Chemistry, Vol. 23, No. 2 2011, Pages 511-514.
- 99) Majid M. Heravi, **Fatemeh. F. Bamoharram** , Niloofar Tavakoli-Hoseini, "Generation of Brønsted acidic Ionic liquid by Keggin heteropoly acid and its application in the synthesis of 14-aryl-14H-dibenzo[a,j]xanthenes", Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry Volume 41, 2011, Pages 616-620.
- 100) Ali Javid, Majid M. Heravi, **Fatemeh. F. Bamoharram** , Mohsen Nikpour, "One-Pot Synthesis of Tetrasubstituted Imidazoles Catalyzed by Preyssler-Type Heteropoly Acid", E-Journal of Chemistry, Vol. 23, No. 2 2011, Pages 511-514.
- 101) Majid M. Heravi, Niloofar Tavakoli-Hoseini, **Fatemeh. F. Bamoharram** , "Brønsted Acidic Ionic Liquids as Efficient Catalysts for the Synthesis of Amidoalkyl Naphthols", Synthetic Communications, Volume 41, 2011, Pages 298–306.
- 102) Ali Javid, Majid M. Heravi, **Fatemeh. F. Bamoharram**, " One-pot synthesis of 1,8-dioxo-octahydroxanthenes utilizing silica-supported Preyssler nano particles as novel and efficient reusable heterogeneous acidic catalyst ", E-Journal of Chemistry , Volume 8, Issue 2, 2011, Pages 910-916.
- 103) Majid .M. Heravi, Nilofar Tavakoli Hosseini, **Fatemeh. F. Bamoharram**, " Knoevenagel Condensation Reaction Using Brønsted-Acidic Ionic Liquids as Green and Reusable Catalysts", Asian Journal of Chemistry; Volume 22, No. 9, 2011, Pages 7208-7212.
- 104) Majid M. Heravi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**. "A novel method for the synthesis of 1(2H)- phthalazinone derivatives using heteropolyacids as heterogeneous and recyclable catalysts", Heterocyclic Communications, Volume 14, Issue 5, 2011, Pages 375-384.
- 105) Radineh Motamedi, Aazam Monfared, Zohre Ghahghai Nezamabadi, **Fatemeh F. Bamoharram**, "Facile One-Pot Synthesis of [1,2,4]Triazolo[3,4-b][1,3,4]thiadiazines and 3,7-Dimethyl-4H-[1,2,4]triazino[3,4-

- b][1,3,4]thiadiazin-6-one Using Heteropolyacid Catalysts", JOURNAL OF HETEROCYCLIC CHEMISTRY, Volume 48, Issue 3, 2011, Pages 604-607.
- 106) **Fatemeh. F. Bamoharram**, Kazem. Daneshvar Hosseini, Asma Golmakani," Controlled Synthesis and Characterization of Magnetite Nanoparticles Obtained by Glycothermal Method", International Journal of Nanomanufacturing, Volume 5, 2010, pages 245-253.
- 107) Rahim Hekmatshoar, Sodeh Sadjadi, Samaheh Sadjadi, Majid M. Heravi, Yahya S. Beheshtiha, **Fatemeh. F. Bamoharram**," New and General Nitrogen Heterocycle Synthesis: Use of Heteropoly Acids as a Heterogeneous Recyclable Catalyst", Synthetic Communications, Volume 40, 2010, pages 1708-1716.
- 108) Majid M. Heravi, Samaheh Sadjadi, Negar Mokhtari Haj, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**," Efficient Three-Component Synthesis of 4-Aminoquinazolines", Synthetic Communications, Volume 40, 2010, pages 861-867.
- 109) Majid M. Heravi, Fatemeh Nahavandi, Samaheh Sadjadi, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**," Efficient Synthesis of Bis-Coumarins Using Silica-Supported Preyssler Nanoparticles", Synthetic Communications, Volume 40, 2010, pages 498-503.
- 110) Rahim Hekmatshoar, Sodeh Sadjadi, Samaheh Sadjadi, Majid M. Heravi, **Fatemeh. F. Bamoharram**," $H_{14}[NaP_5W_{30}O_{110}]$ as a Heterogeneous Recyclable Catalyst for the Synthesis of 6,8-Dimethyl-3-aryl-[1,2,4]triazolo[3,4-b][1,3,4]thiazepine Derivatives", Synthetic Communications, Volume 40, 2010, pages 1778-1783.
- 111) Majid M. Heravi, Tandis Hosseini, Fatemeh Derikvand, Seyed Yahya S. Beheshtiha, **Fatemeh. F. Bamoharram**," $H_6P_2W_{18}O_{62} \cdot 18H_2O$ -Catalyzed, Three-Component, One-Pot Synthesis of Indeno[1,2-b]quinoline-7-one Derivatives", Synthetic Communications, Volume 40, 2010, pages 2402-2406.
- 112) Majid M. Heravi, Ali Ghods, Fatemeh Derikvand, Kadijeh Bakhtiari, **Fatemeh. F. Bamoharram**," $H_{14}[NaP_5W_{30}O_{110}]$ Catalyzed One-Pot Three-Component Synthesis of Dihydropyrano[2,3-c]pyrazole and pyrano[2,3-d]pyrimidine Derivatives", Journal of the Iranian Chemical Society, Volume 7, 2010, pages 615-620.
- 113) Majid M. Heravi, Negar Mokhtari Haj, Bita Baghernejad, Yahya S. Beheshtiha, **Fatemeh. F. Bamoharram**," Application of Heteropoly Acids as Heterogeneous and Recyclable Catalysts for Friedländer Synthesis of Quinolines", E-Journal of Chemistry, Volume 7, 2010, pages 875-881.
- 114) Majid M. Heravi , Fatemeh Derikvand , Leila Ranjbar , **Fatemeh. F. Bamoharram**," $H_6P_2W_{18}O_{62} \cdot 18H_2O$, A green and reusable catalyst for the three-component one-pot synthesis of 4,6- diarylpyrimidin-2(1H)-ones under solvent free conditions", Synthetic Communications, Volume 40, 2010, pages 1256-1263.

- 115) Majid M. Heravi, Hamideh Alinejhad, Khadijeh Bakhtiari, Zohreh Daroogheha, **Fatemeh. F. Bamoharram**, Fatemeh Derikvand, Behnoush Alimadadi, " Facile Heteropolyacid-Promoted Synthesis of Indeno[1,2-b]quinoline- 9,11(6H,10H)-dione Derivatives", *Synthetic Communications*, Volume 40, 2010, pages 2191-2200.
- 116) Radineh Motamedi, Majid M. Heravi, Zahra Nazari, **Fatemeh. F. Bamoharram**, " Regioselective Synthesis of 2-Substituted [1,2,4]Triazolo[5,1-b][1,3]thiazin-7-ones by Heteropolyacids", *Phosphorus, Sulfur, and Silicon and the Related Elements*, Volume 185, 2010, pages 1672-1675.
- 117) **Fatemeh. F. Bamoharram**, Kazem. Daneshvar Hosseini, Asma Golmakani, "Controlled Synthesis and Characterization of Magnetite Nanoparticles Obtained by Glycothermal Method", *International Journal of Nanomanufacturing*, Volume 5 , Number 3/4, 2010, Pages 245-253.
- 118) **Fatemeh. F. Bamoharram**, Majid M. Harevi, Mina Roshani, Jalal Sh. Emampour, Nasrin Rashki, "Catalytic Performance of Preyssler Anion in Selective Oximation of Aromatic Aldehydes", *Asian Journal of Chemistry*. Volume 22, No. 6 , 2010 , Pages 4421-4425.
- 119) **Fatemeh. F. Bamoharram**, Mina Roshani, Majid M. Harevi, Masomeh Mahdavi, Ali Javid, Jalal Sh. Emampour, "Keggin Heteropolyacid Catalyzed Synthesis of Isoxazolo[5,4-d] Pyrimidine-4,6(5H,7H) Diones at Room Temperature", *Chinese Journal of Chemistry*. Volume 28, 2010, Pages 974-976.
- 120) **Fatemeh. F. Bamoharrama**, Mohammad M Heravi , Poursan Ardalani, A Kinetie study for esterification of lactic acid and ethanol in the presence of Preyssler acid an eco-friendly solid acid catalyst". *Reaction Kinetics, Mechanisms and Catalysis*, Volume 100 , 2010 , Pages 71-78.
- 121) **Fatemeh F Bamoharram**, "Synthesis and Characterization of Two Novel Organic-Inorganic Compounds Based on Tetrahexyl and Tetraheptyl Ammonium with Preyssler Anion and Their Catalytic Activities in the Synthesis of 4-Amino-Pyrazolo[3,4-d] Pyrimidines", *Molecules*, Volume 15, 8 April 2010, Pages 2509-2519.
- 122) **Fatemeh. F. Bamoharram** , Majid M. Heravi , Mohammad J. Sane Charkhi, Niloofar Tavakoli, " Silica-Supported Preyssler Nano Particles : A Novel Catalyst for Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones via a One-Pot Multicomponent Reaction", *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, In press.
- 123) Majid M. Heravi, Samaheh Sadjadi, Negar Mokhtari Haj, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Efficient Three-Component Synthesis of 4-Aminoquinazolines", *Synthetic Communications*, Volume 40, February 2010, Pages 861–867.

- 124) **Fatemeh. F. Bamoharram** , Ali Ahmadpour, Majid M. Heravi, " Synthesis of carbon nanotubes via catalytic CVD method and their modification with Preyssler anion, $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ ", NANO, Volume 6, 2010, pages 349-355.
- 125) Nilofar Tavakoli-Hoseini, **Fatemeh. F. Bamoharram**, Majid M. Heravi, "Organic Salts of Polyoxometalates: Novel and Efficient Catalysts for the Synthesis of Pyridine N-oxide Derivatives" Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, Volume 40, December 2010, Pages 912-915.
- 126) Masoumeh Zakeri, Majid M. Heravi, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**," Catalytic Performance of Heteropolyacids as Efficient and Eco-Friendly Catalysts for the One-Pot Synthesis of Benzopyran Derivatives", Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, Volume 40, December 2010, Pages 916–921.
- 127) Majid M. Heravi, Fatemeh Derikvand, Leila Ranjbar, **Fatemeh. F. Bamoharram**, " $\text{H}_6\text{P}_2\text{W}_{18}\text{O}_{62}\cdot 18\text{H}_2\text{O}$, a Green and Reusable Catalyst for the Three- Component, One-Pot Synthesis of 4,6-Diarylpyrimidin-2(1H)-ones Under Solvent-Free Conditions ", Synthetic Communications, Volume 40, April 2010, Pages 1256–1263.
- 128) Majid M. Heravi, Fatemeh Nahavandi, Samaheh Sadjadi, Hossein A. Oskooie, **Fatemeh. F. Bamoharram** ," Efficient Synthesis of Bis-Coumarins Using Silica-Supported Preyssler Nanoparticles", Synthetic Communications, Volume 40, February 2010, Pages 498–503.
- 129) Rahim Hekmatshoar, Sodeh Sadjadi, Samaheh Sadjadi, Majid M. Heravi, **Fatemeh. F. Bamoharram**, " $\text{H}_{14}[\text{NaP}_5\text{W}_{30}\text{O}_{110}]$ as a Heterogeneous Recyclable Catalyst for the Synthesis of 6,8-Dimethyl-3-aryl-[1,2,4]triazolo[3,4-b][1,3,4]thiazepine Derivatives", Synthetic Communications, Volume 40, May 2010, Pages 1778 - 1783.
- 130) Majid M. Heravi , Fatemeh Derikvand , Leila Ranjbar , **Fatemeh.F. Bamoharram**, " $\text{H}_6\text{P}_2\text{W}_{18}\text{O}_{62}\cdot 18\text{H}_2\text{O}$, A green and reusable catalyst for the three-component one-pot synthesis of 4,6- diarylpyrimidin-2(1H)-ones under solvent free conditions", Synthetic Communications , Volume 40, April 2010, Pages 1256–1263.
- 131) Majid M. Heravi, Hamideh Alinejhad, Khadijeh Bakhtiari, Zohreh Daroogheha, **Fatemeh. F. Bamoharram**, Fatemeh Derikvand, Behnoush Alimadadi," Facile Heteropolyacid-Promoted Synthesis of Indeno[1,2-b]quinoline- 9,11(6H,10H)-dione Derivatives", Synthetic Communications , Volume 40, July 2010, Pages 2191-2200.
- 132) Majid M. Heravi ,, Nilofar Tavakoli-Hoseini, **Fatemeh. F. Bamoharram**, "Silica-supported Preyssler nano particles: A green, reusable and highly efficient heterogeneous catalyst for the synthesis of carbamatoalkyl naphthols", Green Chemistry Letters and Reviews. Volume 3, No. 4, December 2010, Pages 263-267.

- 133) Majid M. Heravi, Ali Ghods, Fatemeh Derikvand,, Kadijeh Bakhtiari, **Fatemeh .F. Bamoharram**, " $H_{14}[NaP_5W_{30}O_{110}]$ Catalyzed One-Pot Three-Component Synthesis of Dihydropyrano[2,3-c]pyrazole and pyrano[2,3-d]pyrimidine Derivatives", Journal of the Iranian Chemical Society, Volume 7, Issue 3, September 2010, Pages 615-620.
- 134) Majid M. Heravi, Negar Mokhtari Haj, Bita Baghernejad, Yahya S. Beheshtia, **Fatemeh. F. Bamoharram**, " Application of Heteropoly Acids as Heterogeneous and Recyclable Catalysts for Friedländer Synthesis of Quinolines", E-Journal of Chemistry , Volume 7, Issue 3, 2010, Pages 875-881.
- 135) Rahim Hekmatshoar, Sodeh Sadjadi, Samaheh Sadjadi, Majid M. Heravi, Yahya S. Beheshtia, **Fatemeh. F. Bamoharram**, " New and General Nitrogen Heterocycle Synthesis: Use of Heteropoly Acids as a Heterogeneous Recyclable Catalyst", Synthetic Communications, Volume 40, Issue, May 2010, Pages 1708-1716 .
- 136) Majid M. Heravi, Tandis Hosseini, Fatemeh Derikvand, Seyed Yahya S. Beheshtia, **Fatemeh. F. Bamoharram**, " $H_6P_2W_{18}O_{62} \cdot 18H_2O$ -Catalyzed, Three-Component, One-Pot Synthesis of Indeno[1,2-b]quinoline-7-one Derivatives", Synthetic Communications, Volume 40, Issue 16, July 2010, Pages 2402 — 2406.
- 137) Ali Gharib, Mohsen Daneshtalab, J. (Hans) W. Scheeren, **Fatemeh.F. Bamoharram**, Mina Roshani, Manouchehr Jahangir, "One-pot synthesis of (S)-2-(6-methoxynaphtalen-2-yl)propanoic acid, (S)-Naproxen using Preyssler and Keggin-type heteropolyacids as green and reusable catalysts", Polish Journal of Chemical Technology, Volume 11, Number 3, 2009, Pages 8-14.
- 138) Majid M. Heravi, Sodeh Sadjadi, Rahim Hekmatshoar, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, " Keggin-Type Heteropolyacids-Catalyzed One Pot Oxidation-Trimerization of Alcohols into 2,4,6-Trisubstituted-1,3,5-Trioxanes", Iranian Journal of Chemistry and Chemical Engineering, Volume 28, 2009, pages 131-136.
- 139) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mina Roshani, Hamzeh Mir, "Catalytic Performance of the Divanadium-substituted Molybdophosphate Acid, $H_5PMo_{10}V_2O_{40}$ in Liquid-phase Esterification of Hexanoic Acid", Phosphorus, Sulfur, and Silicon and the Related Elements, Volume 184, Issue 12 December 2009 , pages 3119 – 3125
- 140) Majid M. Heravi, Samaheh Sadjadi, Sodeh Sadjadi, Hossein A. Oskooie, Rahim Hekmat Shoar, **Fatemeh. F. Bamoharram**, " Supported Preyssler Nanoparticles in Synthesis of 1,3-Diaryl-5-spirohexahydropyrimidines", Journal of the Chinese Chemical Society, Volume 56, 2009, pages 246-250.
- 141) **Fatemeh. F. Bamoharram**, Majid M Heravi, Mona Roushani, Maryam Toosi, "Synthesis and characterization of silica-supported Preyssler

- nanoparticles and its catalytic activity for photodegradation of methyl orange" *Green Chemistry Letters and Reviews*, Volume 2 , Number 1, 2009, Pages 35-41.
- 142) **Fatemeh. F. Bamoharrama**, Mohammad M Heravi ,Touran Ardalan,Pouran Ardalan, " A kinetic study of the electron- transfer in reaction of tribenzylchlorotin with $[\text{CoW}_{12}\text{O}_{40}]^{5-}$ ", *Chinese chemical letters*, Volume 20 , 2009, Pages 1005–1009.
- 143) **FATEMEH. F. BAMOHARRAM**, JAMSHID CHAMANI, MAJID M. HERAVI, OMID RAJABI, MINA ROSHANI, NASRIN KARIMI and OMID M. HERAVI, "Spectroscopic Investigations Resulted from Interactions of Heteropolyacids with α -Lactalbumin Complexes", *Asian Journal of Chemistry*, Volume 21 , Number 5, 2009, Pages 3385-3394.
- 144) **Fatemeh. F. Bamoharram**, "Study of the Interaction of Keggin Heteropoly Anions and Amino Acids by Vibrational Spectra", *Molecules*, Volume 14, 2009, Pages 3214-3221.
- 145) Majid M. Heravi , Samaheh Sadjadi, Negar Mokhtari , Hossein A. Oskooie, Rahim. Hekmat Shoar, **Fatemeh. F. Bamoharram**, "A novel multicomponent synthesis of 4-aryl-aminoquinazolines", *Tetrahedron Letters*. Volume 50, 2009, Pages 943-945.
- 146) Majid M. Heravi , Samaheh Sadjadi, Hossein A. Oskooie, Rahim. Hekmat Shoar, **Fatemeh F. Bamoharram**, "A direct oxidative route for the synthesis of pyrimidines using heteropolyacids", *Tetrahedron Letters*, Volume 50, Issue 6, 2009, Pages 662-666.
- 147) **Fatemeh F. Bamoharram**, Majid M. Heravi, Maryam Hosseini, Khadijeh Bakhtiari, "Heteropolyacid –Catalyzed Efficient and Convenient Synthesis of 2-Substituted Benzimidazoles", *Iranian Journal of Organic Chemistry* , Volume 1, 2009, Pages 25-27.
- 148) **Fatemeh F. Bamoharram**, Mohammad M. Heravi, Majid M. Heravi, Mozghan Meraji, "Synthesis of Silver Nanoparticles in the Presence of A Green Heteropolyacid, $\text{H}_{14}[\text{NaP}_5\text{W}_{30}\text{O}_{110}]$, and Their Catalytic Activity for Photo degradation of Methylene Blue and Methyl Orange". *International Journal of Green Nanotechnology*, :Physics and Chemistry, Volume 1, 2009, Pages 26-31.
- 149) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mina Roshani, Hamid M. Heravi, Ali Gharib, Manouchehr Jahangir, " Lactonization of Various Diols, using Transition Metal-Substituted Keggin Catalysts $[\text{PW}_{11}\text{MO}_{40}]^{7-}$, (M= Co(II) , Ni (II), Cu(II) , Zn(II))", *Iranian Journal of Organic Chemistry* , Volume 2, 2009, Pages 110-117.
- 150) **Fatemeh F. Bamoharram**, Majid M. Heravi, Hamid M. Heravi, Maryam Dehghan,"Photocatalytic Oxidation of Benzyl Alcohols in the Presence of $\text{H}_{14}[\text{NaP}_5\text{W}_{30}\text{O}_{110}]$ as A Green and Reusable Catalyst", *Synthesis*

and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry. Volume 39, 2009, Pages 394-399.

- 151) Ali Gharib, Mohsen Daneshtalab, J. (Hans) W. Scheeren, **Fatemeh. F. Bamoharram**, Mina Roshani, Manouchehr Jahangir, "Novel catalytic synthesis of 6,7-dimethoxyisatin with the use of heteropolyacids (HPAs) as acid solid catalyst", Polish Journal of Chemical Technology, Volume 11, 2009, pages 5-7.
- 152) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Soheyla Mehdizadeh, "Preyssler Anion as a Green and Eco-friendly Catalyst for Photocatalytic Oxidation of Aromatic Aldehydes", Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, Volume 39, No. 10, December 2009, Pages 746 – 750.
- 153) Majid M. Heravi, Samaheh Sadjadi, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Rapid and efficient synthesis of 4(3H)-quinazolinones under ultrasonic irradiation using silica-supported Preyssler nanoparticles", Ultrasonics Sonochemistry, Volume 16, 2009, Pages 708–710.
- 154) Majid M. Heravi, Sodeh Sadjadi, Rahim. Hekmat Shoar, Hossein A. Oskooie, **Fatemeh F. Bamoharram** "Different reaction path using various types of heteropolyacids. Keggin versus Preysslers. Catalysis Communications, In press, 2009.
- 155) Majid M. Heravi, Samaheh Sadjadi, Sodeh Sadjadi, Hossein A. Oskooie, **Fatemeh F. Bamoharram**, "A convenient synthesis of bis(indolyl)alkanes under ultra sonic irradiation using silica-supported Preyssler nano particles", Ultrasonics Sonochemistry, Volume 16, 2009, Pages 718–720.
- 156) Majid M. Heravi, Sodeh Sadjadi, Rahim. Hekmat Shoar, Hossein A. Oskooie, **Fatemeh F. Bamoharram**, "Dehydration of Oximes to Nitriles Catalyzed by a Green Heteropolyacid Catalyst: Preyssler's Anion, [NaP₅W₃₀O₁₁₀]¹⁴⁻" Chinese Journal of Chemistry, Volume 27, 2009, Pages 607-609.
- 157) Majid M. Heravi, Yahya Beheshtia, Maliheh Khorshidi, Bitabaghernejad, **Fatemeh F. Bamoharram**, "Application of Heteropolyacids as Heterogeneous and Recyclable Catalysts for One-Pot Synthesis of 3-Cyanopyridine Derivatives", Chinese Journal of Chemistry, Volume 27, 2009, Pages 569-572.
- 158) Majid M. Heravi, Samaheh Sadjadi, Negar Mokhtari Haj, Hossein A. Oskooie, **Fatemeh F. Bamoharram**, "Role of various heteropolyacids in the reaction of 4-hydroxycoumarin, aldehydes and ethylcyanoacetate", Catalysis Communications, Volume 10, 2009, Pages 1643-1646.
- 159) Majid M. Heravi, Najme Javanmardi, Hossein A. Oskooie, Bitabaghernejad, Maryam Heidari, **Fatemeh F. Bamoharram**, "Heteropolyacid

as a New, Green and Recyclable Catalyst for the Synthesis of 2-Aryl Benzoxazole under Solvent-free Conditions", Journal of the Chinese Chemical Society, Volume 56, Issue 3, June 2009, Pages 589-593 .

- 160) Sodeh Sadjadi, Majid M. Heravi, Negar Mokhtari, Hossein A. Oskooie, , Rahim Hekmat Shoar, **Fatemeh F. Bamoharram**, "HETEROPOLYACIDS IN SYNTHESIS OF BENZOYL HYDRAZONE DERIVATIVES", BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, Volume 23, Issue 3, December 2009, Pages 467-472.
- 161) Majid M. Heravi, Vahideh Rasmi, **Fatemeh F. Bamoharram**, Sodeh Sadjadi, Lida Fotouhi, Samahe Sadjadi , Mehdi Bakavoli, " Synthesis of Isobenzofuran-1(3H)-ones with the Aid of Silica-Supported Preyssler Nanoparticles", Synthetic Communications, Volume 39, Issue 22, 2009, Pages 4109-4116.
- 162) Mehdi Bakavoli, Fatemeh Pirouzi, Mahdi Nikpour, **Fatemeh. F. Bamoharram**, Abolghasem Davodnia, " Synthesis of New Tetracyclic Fused Imidazole Derivatives", Heterocyclic Communications, Volume 15, Issue 1, 2009, Pages 31-41.
- 163) Majid M. Heravi, Sodeh Sadjadi, Rahim Hekmat Shoar, Hossein A. Oskooie, **Fatemeh F. Bamoharram**, " Keggin-Type Heteropolyacids-Catalyzed One Pot Oxidation-Trimerization of Alcohols into 2,4,6-Trisubstituted-1,3,5-Trioxanes", Iranian Journal of Chemistry and Chemical Engineering-International English, Volume 28, Issue 2, 2009, Pages 131-138.
- 164) Samahe Sadjadi , Majid M. Heravi, Nargess Poormohammad , Hossein A. Oskooie, Yahya Sh Beheshtiha, **Fatemeh F. Bamoharram**, " Direct Oxidative Conversion of Benzoyl Chlorides to 2-Imidazoles Using Heteropolyacids ", Synthetic Communications, Volume 39, Issue 17, 2009, Pages 3119-3125.
- 165) **Fatemeh F. Bamoharram**, Majid M. Heravi, Jalal Sh. Emampour, Mina Roshani, Tayebeh Mirghafari, "Preyssler's anion, $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$, as an efficient catalyst for the selective synthesis of geminal diacetates", Iranian Journal of Organic Chemistry , Volume 3, 2009, Pages 144-148.
- 166) Ali Gharib, Mohsen Daneshtalab, J. (Hans) W. Scheeren, **Fatemeh. F. Bamoharram**, Mina Roshani, Manouchehr Jahangir, "Novel catalytic synthesis of 6,7-dimethoxyisatin with the use of heteropolyacids (HPAs) as acid solid catalyst", Polish Journal of Chemical Technology, Volume 11, Number 3, 2009, Pages 5 – 7.
- 167) Majid M. Heravi , Samaheh Sadjadi, Narges Pourmohammad , Hossein A. Oskooie, Rahim. Hekmat Shoar, **Fatemeh. F. Bamoharram**, " Direct oxidative conversion of benzoyl chlorides to 2-imidazols using heteropolyacids", Synthetic Communications, Volume 39, Issue 17, 2009, Pages 3119-3125.

- 168) Majid M. Heravi, Samaheh Sadjadi, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "SYNTHESIS OF ISOBENZOFURAN-1(3H)-ONES WITH THE AID OF SILICA-SUPPORTED PREYSSLER NANOPARTICLES", *Synthetic Communications*, Volume 39, Issue 17, 2009, Pages 4109-4116.
- 169) Ali Gharib, J. (Hans) W. Scheeren, **Fatemeh. F. Bamoharram**, Mina Roshani, Manouchehr Jahangir, "Acetylation of p-Aminophenol by Preyssler's anion $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$, $[\text{NaP}_5\text{W}_{29}\text{MoO}_{110}]^{14-}$ with green condition at room temperature", *Polish Journal of Chemical Technology*, Volume 11, Number 2, 2009, pages 31-35.
- 170) Rahim Hekmatshoar, Sodeh Sadjadi, Samaheh Sadjadi, Majid M. Heravi, Yahya Beheshtiha, **Fatemeh. F. Bamoharram**, "Multifunctional Catalysis of Heteropoly Acid: One-Pot Synthesis of Quinolines from Nitroarene and Various Aldehydes in the Presence of Hydrazine", *Journal of the Chinese Chemical Society*, Volume 55, 2008, Pages 1195-1198. [4 page(s) (article)].
- 171) Majid M. Heravi, Farahnaz Behbahani, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, " $\text{H}_{14}[\text{NaP}_5\text{W}_{29}\text{MoO}_{110}]$: a Novel and Useful Catalyst for Aminolysis of Epoxides with Amines under Solvent-Free Conditions", *Chinese Journal of Chemistry*. Volume 26, Issue 12, 2008, Pages 2150-2154.
- 172) Majid M. Heravi, Fatemeh Derikvand, Anahita Haeri, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, " Heteropolyacids as green and reusable catalysts for the synthesis of isoxazole derivatives ", *Synthetic Communications*, Volume 38, Issue 1, 2008, Pages 135-140.
- 173) Majid M. Heravi, Khadijeh Bakhtiari, Azadeh Fatehi, **Fatemeh. F. Bamoharram**, "A convenient synthesis of bis(indolyl)methanes catalyzed by diphosphooctadecatungstic acid " *Catalysis Communications*, Volume 9, Issue 2, February 2008, Pages 289-292.
- 174) Majid M. Heravi, Sodeh Sadjadi, Rahim Hekmatshoar, Hossein A. Oskooie, **Fatemeh F. Bamoharram**, "Deamination of some N-Amino nitrogen heterocycles using Preyssler's anion", *Monatshefte für Chemie*, Volume 139, 2008, Pages 107-110.
- 175) Majid M. Heravi, Samaheh Sadjadi, Hossein A. Oskooie, Rahim Hekmat Shoar, **Fatemeh F. Bamoharram**, " Heteropolyacids as heterogeneous and recyclable catalysts for the synthesis of benzimidazoles", *Catalysis Communications*, Volume 19, Issues 4, 15 March 2008, Pages 504-507.
- 176) Majid M. Heravi, Samaneh Sadjadi, Hossein A. Oskooie, Rahim Hekmat shoar, **Fatemeh F. Bamoharram**, "The synthesis of coumarin-3-carboxylic acids and 3-acetyl-coumarin derivatives using heteropolyacids as heterogeneous and recyclable catalysts " *Catalysis Communications*, Volume 9, 2008, Pages: 470-474.

- 177) Majid M. Heravi, Samaheh Sadjadi, Hossein A. Oskooie , Rahim. Hekmat Shoar, **Fatemeh. F. Bamoharram**, "One-pot Synthesis of 2-Arylbenzoxazoles Promoted by Heteropolyacids" ,Journal of the Chinese Chemical Society, Volume 55, 2008, Pages 890-895.
- 178) Majid M. Heravi, Farahnaz Behbahani, Hossein A. Oskooie ,**Fatemeh. F. Bamoharram**, " $H_{14}[NaP_5W_{29}MoO_{110}]$: A Novel and Useful Catalyst for Aminolysis of Epoxides with Amines Under Solvent free Conditions", Chinese Journal of Chemistry, Volume 26, 2008, Pages 2150-2154.
- 179) Majid M. Heravi, **Fatemeh. F. Bamoharram**, Tina Benmorad, " $K_7[PW_{11}CoO_{40}]$: Efficient and Eco-friendly Catalyst for the Enamination of –Dicarbonyl Compounds", Synthetic Communications, Volume 38, 2008, Pages 2864–2869.
- 180) Rahim Hekmatshoar, Majid M. Heravi, Sodeh Sadjadi, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Catalytic performance of Preyssler heteropolyacid, $[NaP_5W_{30}O_{110}]^{14-}$ in liquid phase alkylation of phenol with 1-octene", Catalysis Communications, Volume 9, Issue 5, 20 March 2008, Pages 837-841.
- 181) Majid M. Heravi, Samaheh Sadjadi, Hossein A. Oskooie , Rahim. Hekmat Shoar, **Fatemeh. F. Bamoharram**. "The One-pot Synthesis of Trisubstituted Imidazoles Using Heteropolyacids as Heterogeneous and Recyclable Catalysts" , Journal of the Chinese Chemical Society, Volume 55, 2008, Pages 1199-1203.
- 182) Majid M. Heravi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**. "Three component, One-pot synthesis of dihydropyrano[3,2-c]chromenederivatives in the presence of $H_6P_2W_{18}O_{62}.18H_2O$ as a green and recyclable catalyst", Catalysis Communications , Volume 10, 2008, Pages 272-275.
- 183) Radineh Motamedi , Majid M Heravi , **Fatemeh. F. Bamoharram** , Anahita Haeri , "Facile routes to 1,2,4-triazolo[3,4-b][1,3,4]thiadiazines and 1,2,4-triazino[3,4-b][1,3,4]thiadiazine by heteropolyacides" , Journal of Heterocyclic Chemistry, Volume 45, Issue 4, July-August 2008, Pages 1211-1214.
- 184) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand, Behnoush Alimadadi, Hossein A. Oskooie, **Fatemeh F. Bamoharram**, "A Three Component One-Pot Procedure for the Synthesis of 1,2,4-Triazolo/Benzimidazolo-Quinazolinone Derivatives in the Presence of $H_6P_2W_{18}O_{62}.18H_2O$ as a Green and Reusable Catalyst" ,Molecular Diversity. Volume 12, 2008, Pages 181-185.
- 185) Majid M. Heravi , Samaheh Sadjadi, Sodeh Sadjadi , Hossein A. Oskooie, Rahim. Hekmat Shoar, **Fatemeh. F. Bamoharram**, " Silica-supported Preyssler Nanoparticles as New Catalyst in Synthesis of 4(3H)-Quinazolinones", South African Journal of Chemistry, Volume 61, 2008, Pages 14-17.

- 186)
- 187) **166)** Majid M. Heravi, Samaheh Sadjadi, Hossein A. Oskooie, Rahim Hekmat Shoar, **Fatemeh. F. Bamoharram**, " Heteropolyacids as heterogeneous and recyclable catalysts for the synthesis of benzimidazoles", *Catalysis Communications*, Volume 19, Issues 4, 15 March 2008, Pages 504-507.
- 188) Majid M. Heravi, Bitra Baghernejad, Hossein A. Oskooie, **Fatemeh F. Bamoharram**, " A NOVEL METHOD FOR THE SYNTHESIS OF 1(2H)-PHTHALAZINONE DERIVATIVES USING HETEROPOLYACIDS AS HETEROGENEOUS AND RECYCLABLE CATALYSTS", *Heterocyclic Communications*, Volume 14, Issue 5, 2008, Pages 375-384.
- 189) Majid M. Heravi, Samaheh Sadjadi, Hossein A. Oskooie, Rahim Hekmatshoar, **Fatemeh. F. Bamoharram**, "An Efficient Synthesis of 3H-1,5-benzodiazepine Derivatives Catalyzed by Heteropolyacids as a Heterogeneous Recyclable Catalyst", *Journal of the Chinese Chemical Society*, Volume 55, 2008, Pages 842-845.
- 190) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand, Hossine A. Oskooie, **Fatemeh. F. Bamoharram**, "Catalytic oxidative cleavage of C=N bond in the presence of mixed-addenda vanadomolybdophosphate, $H_6PMo_9V_3O_{40}$ as a green and reusable catalyst", *Journal of Molecular Catalysis A: Chemical*, Volume 265, Issues 1-2, 16 March 2007, Pages 186-188.
- 191) Majid M. Heravi, Khadijeh Bakhtiari, Vahideh Zadsirjan, **Fatemeh.F. Bamoharram**, Omid M. Heravi, "Aqua mediated synthesis of substituted 2-amino-4H-chromenes catalyzed by green and reusable Preyssler heteropoly acid", *Bioorganic & Medicinal Chemistry Letters*, Volume 17, Issues 15, 1 August 2007, Pages 4262-4265.
- 192) Majid M. Heravi, Fatemeh Derikvand, Shahla Hassan-Pour, Khadijeh Bakhtiari, **Fatemeh F. Bamoharram**, Hossein A. Oskooie, " Oxidative aromatization of Hantzsch 1,4-dihydropyridines in the presence of mixed-addenda vanadomolybdophosphate heteropolyacid, $H_6PMo_9V_3O_{40}$ ", *Bioorganic & Medicinal Chemistry Letters*, Volume 17, Issues 12, 15 June 2007, Pages 3305-3309.
- 193) Majid M. Heravi, Khadijeh Bakhtiari, Zohreh Daroogheha, **Fatemeh F. Bamoharram**, "An efficient synthesis of 2,4,6-triarylpyridines catalyzed by heteropolyacid under solvent-free conditions", *Catalysis Communications*, Volume 8, Issues 12, December 2007, Pages 1991-1994.
- 194) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand and **Fatemeh. F. Bamoharram**, " A modified and green Dakin–West reaction: An efficient and convenient method for a one-pot synthesis of β -acetamido carbonyl compounds", *Journal of Molecular Catalysis A: Chemical*, Volume 271, Issues 1-2, 18 June 2007, Pages 28-31.

- 195) **Fatemeh F. Bamoharram**, Majid M. Heravi, Mina Roshani, Manouchehr Jahangir, Ali Gharib, "Effective direct esterification of butanol by eco-friendly Preyssler catalyst, $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ ", *Journal of Molecular Catalysis A: Chemical*, Volume 271, Issues 1-2, 18 June 2007, Pages 126-130.
- 196) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Fatemeh Abrishami, "Catalytic N-oxidation of picolinic acid in the presence of heteropolyacids including Mo and W", *Journal of Molecular Catalysis A: Chemical*, Volume 267, Issues 1-2, 18 April 2007, Pages 241-244.
- 197) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, " Sulfamic acid as a cost-effective catalyst instead of metal-containing acids for the one-pot synthesis of beta-acetamido ketones", *Journal of Molecular Catalysis A: Chemical*, Volume 276, Issues 1-2, 17 October 2007, Pages 226-229.
- 198) Majid M. Heravi , Samaheh Sadjadi , Hossein A. Oskooie, Rahim Hekmat Shoar, **Fatemeh F. Bamoharram**, "Heteropolyacids as Green and Reusable Catalysts for the Synthesis of 3,1,5-Benzoxadiazepines", *Molecules*, Volume 12, 2007, Pages 255-262.
- 199) Majid M. Heravi, Khadijeh Bakhtiari, Tina Benmorad, **Fatemeh. F. Bamoharram**, Hossein A. Oskooie, Maryam H. Tehrani, " Nitration of Aromatic Compounds Catalyzed by Divanadium-Substituted Molybdophosphoric Acid, $\text{H}_5[\text{PMo}_{10}\text{V}_2\text{O}_{40}]$ ", *Monatshefte für Chemie* , Volume 138, 2007, Pages 449-452.
- 200) Majid M. Heravi¹, Khadijeh Bakhtiari¹, **Fatemeh. F. Bamoharram**, Maryam H. Tehrani, "Wells-Dawson Type Heteropolyacid Catalyzed Synthesis of Quinoxaline Derivatives at Room Temperature", *Monatshefte für Chemie* Volume 138, 2007, Pages 465-467.
- 201) Majid M. Heravi, F. K. Behbahani, **Fatemeh. F. Bamoharram**, " Acetylation of alcohols, phenols and salicylic acid by heteropoly acids in acetic anhydride: a green and eco-friendly protocol for synthesis of acetyl salicylic acid (Aspirin) " *ARKIVOC*, 2007, Pages 123-131.
- 202) Majid M. Heravi, Khadijeh Bakhtiari, Negar M. Javadi, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, " Selective Acetylation of Alcohols and Amines with Ethyl Acetate in the Presence of $\text{H}_6[\text{PMo}_9\text{V}_3\text{O}_{40}]$ as the Catalyst ", *Monatshefte für Chemie* Volume 138, 2007, Pages 445-447.
- 203) R. Hekmatshoar, M. M. Heravi, **Fatemeh F. Bamoharram**, " $\text{H}_{14}[\text{NaP}_5\text{W}_{30}\text{O}_{110}]$ as a heterogeneous recyclable catalyst for the air oxidation of thiols under solvent free conditions ", *Molecules*, Volume 12 , 2007, Pages 2223-2228 .
- 204) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Ali Gharib, " Catalytic method for synthesis of aspirin by a green, efficient and recyclable solid acid catalyst (Preyssler's anion) at room temperature ", *Journal of the Chinese Chemical Society*, Volume 54, 2007, Pages 1017-1020.

- 205) Majid M. Heravi, Khadijeh Bakhtiari, Zohreh Daroogheha, **Fatemeh.F. Bamoharram**, "Facile heteropolyacid-promoted synthesis of 14-substituted-14-H-dibenzo[a,j] xanthene derivatives under solvent-free conditions", *Journal of Molecular Catalysis A: Chemical*, Volume 273, Issues 1-2, August 2007, Pages 99-101.
- 206) Majid M. Heravi, Marzieh Khorasani, Fatemeh Derikvand, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Highly efficient synthesis of coumarin derivatives in the presence of $H_{14}[NaP_5W_{30}O_{110}]$ as a green and reusable catalyst", *Catalysis Communications*, Volume 8, Issues 12, December 2007, Pages 1886-1890.
- 207) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, " $H_6P_2W_{18}O_{62}$: An efficient and reusable catalyst for one-pot synthesis of β -acetamido ketone and esters" *Catalysis Communications*, Volume 8, Issue 3, March 2007, Pages 289-291.
- 208) Majid M. Heravi, Vahideh Zadsirjan, Khadijeh Bakhtiari, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Green and reusable heteropolyacid catalyzed oxidation of benzylic, allylic and aliphatic alcohols to carbonyl compounds", *Catalysis Communications*, Volume 8, Issue 3, March 2007, Pages 315-318.
- 209) Majid M. Heravi, Khadijeh Bakhtiari, Negar M. Javadi, **Fatemeh. F. Bamoharram**, Mina Saeedi, Hossein A. Oskooie, " $K_7[PW_{11}CoO_{40}]$ -catalyzed one-pot synthesis of polyhydroquinoline derivatives via the Hantzsch three component condensation", *Journal of Molecular Catalysis A: Chemical*, Volume 264, Issues 1-2, 1 March 2007, Pages 50-52.
- 210) Majid M. Heravi, Tina Benmorad, Khadijeh Bakhtiari, **Fatemeh.F. Bamoharram**, Hossein H. Oskooie, " $H_{3+x}PMO_{12-x}V_xO_{40}$ (heteropolyacids)-catalyzed regioselective nitration of phenol to o-nitrophenol in heterogeneous system", *Journal of Molecular Catalysis A: Chemical*, Volume 264, Issues 1-2, 1 March 2007, Pages 318-321.
- 211) Majid M. Heravi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, "Highly efficient, four-component one-pot synthesis of tetrasubstituted imidazoles using Keggin-type heteropolyacids as green and reusable catalysts", *Journal of Molecular Catalysis A: Chemical*, Volume 263, Issues 1-2, 14 February 2007, Pages 112-114.
- 212) Majid M. Heravi, Fatemeh Derikvand, Leila Ranjbar, **Fatemeh. F. Bamoharram**, " $H_{14}[NaP_5W_{30}O_{110}]$ as a heterogeneous recyclable catalyst for the synthesis of 1,5-benzodiazepines in refluxing ethanol", *Journal of Molecular Catalysis A: Chemical*, Volume 261, Issue 2, 18 January 2007, Pages 156-159.
- 213) Majid M. Heravi, Radineh Motamedi, **Fatemeh. F. Bamoharram**, Nasim Seify, "A catalytic method for synthesis of 6-aryl-1H-pyrazolo[3,4-

- d]pyrimidin-4[5H]-ones by heteropolyacids: $H_{14}[NaP_5W_{29}MoO_{110}]$ and $H_3PMo_{12}O_{40}$ ", *Catalysis Communications*, Volume 8, Issues 10, October 2007, Pages 1467-1471.
- 214) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Mina Akbarpour, "Catalytic performance of Preyssler heteropolyacid as a green and recyclable catalyst in oxidation of primary aromatic amines", *Journal of Molecular Catalysis A: Chemical*, Volume 255, Issues 1-2, 1 August 2006, Pages 193-198.
- 215) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Niloofar Tavakoli, "N-oxidation of pyridine carboxylic acids using hydrogen peroxide catalyzed by a green heteropolyacid catalyst: Preyssler's anion, $[NaP_5W_{30}O_{110}]^{14-}$ ", *Journal of Molecular Catalysis A: Chemical*, Volume 252, Issues 1-2, 1 June 2006, Pages 219-225.
- 216) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Ali Gharib, Manouchehr Jahangir, "A catalytic method for synthesis of γ -butyrolactone, ϵ -caprolactone and 2-cumaranone in the presence of Preyssler's anion, $[NaP_5W_{30}O_{110}]^{14-}$, as a green and reusable catalyst", *Journal of Molecular Catalysis A: Chemical*, Volume 252, Issues 1-2, 1 June 2006, Pages 90-95.
- 217) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Manouchehr Jahangir, Ali Gharib, "Preyssler catalyst, $[NaP_5W_{30}O_{110}]^{14-}$: A green, efficient and reusable catalyst for esterification of salicylic acid with aliphatic and benzylic alcohols", *Applied Catalysis A: General*, Volume 302, Issue 1, 21 March 2006, Pages 42-47.
- 218) **Fatemeh. F. Bamoharram**, Mina Roshani, Majid M. Heravi, Shahla Safaie, "The Catalytic Performance of Preyssler's Anion, $[NaP_5W_{30}O_{110}]^{14-}$, in the Oxidation of Benzyl Alcohols", *Phosphorus, Sulfur, and Silicon*, Volume 181, 2006, Pages 2833-2841.
- 219) **Fatemeh. F. Bamoharram**, Mina Roshani, Mohammad H. Alizadeh, Hossein Razavi, M. Moghayadi, "Novel Oxidation of Aromatic Aldehydes Catalyzed by Preyssler's Anion, $[NaP_5W_{30}O_{110}]^{14-}$ ", *Journal of The Brazilian Chemical Society*, Volume 17, No. 3, 2006, Pages 505-509.
- 220) Majid M. Heravi, **Fatemeh. F. Bamoharram**, Ghadir Rajabzadeh, Nasim Seifi, Mola Khatami, "Preyssler heteropolyacid $[NaP_5W_{30}O_{110}]^{14-}$, as a new, green and recyclable catalyst for the synthesis of [1,2,4]triazino[4,3-b][1,2,4,5]tetrazines", *Journal of Molecular Catalysis A: Chemical*, Volume 259, Issues 1-2, 15 November 2006, Pages 213-217.
- 221) Majid M. Heravi, Ghadir Rajabzadeh, **Fatemeh. F. Bamoharram**, Nasim Seifi, "An eco-friendly catalytic route for synthesis of 4-amino-pyrazolo[3,4-d]pyrimidine derivatives by Keggin heteropolyacids under classical heating and microwave irradiation", *Journal of Molecular Catalysis A: Chemical*, Volume 256, Issues 1-2, 18 August 2006, Pages 238-241.

- 222) Majid M. Heravi, Masoumeh Haghighi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, "Efficient Method for Tetrahydropyranlation of Alcohols and Phenols and Deprotection of THP Ethers using $H_{14}[NaP_5W_{30}O_{110}]$ as a Green Catalyst", *Synthetic Communications*, Volume 36, 2006, Pages 3103–3107.
- 223) Majid M. Heravi, Khadijeh Bakhtiari, **Fatemeh. F. Bamoharram**, "An efficient and chemoselective synthesis of acylals from aromatic aldehydes and their regeneration, catalyzed by 12-molybdophosphoric acid", *Catalysis Communications*, Volume 7, Issue 7, July 2006, Pages 499-501.
- 224) Majid M. Heravi, Farahnaz K. Behbahani, **Fatemeh. F. Bamoharram**, " $H_{14}[NaP_5W_{30}O_{110}]$: A heteropoly acid catalyzed acetylation of alcohols and phenols in acetic anhydride", *Journal of Molecular Catalysis A: Chemical*, Volume 253, Issues 1-2, 1 July 2006, Pages 16-19.
- 225) Majid M. Heravi, Khadijeh Bakhtiari, Vahideh Zadsirjan, **Fatemeh. F. Bamoharram**, " $H_{14}[NaP_5W_{30}O_{110}]$ As an efficient catalyst for the one-pot synthesis of α - amino nitriles", *Synlett*, No.11, 2006, Pages 1768-1770.
- 226) Hossien A. Oskooie, Majid M. Heravi, Fatemeh Derikvand, Marzieh Khorasani, **Fatemeh. F. Bamoharram** , "On Water: An Efficient Knoevenagel Condensation using 12-Tungstophosphoric Acid as a Reusable Green Catalyst", *Synthetic Communications*, Volume 36, 2006, Pages 2819–2823.
- 227) Majid M. Heravi, Khadijeh Bakhtiari, **Fatemeh. F. Bamoharram**, "12-Molybdophosphoric acid: A recyclable catalyst for the synthesis of Biginelli-type 3,4-dihydropyrimidine-2(1H)-ones", *Catalysis Communications*, Volume 7, Issue 6, June 2006, Pages 373-376.
- 228) Majid M. Heravi, Radineh Motamedi, Nasim Seifi, **Fatemeh. F. Bamoharram**, "Catalytic synthesis of 6-aryl-1H-pyrazolo[3,4-d]pyrimidin-4[5H]-ones by heteropolyacid: $H_{14}[NaP_5W_{30}O_{110}]$ and $H_3PW_{12}O_{40}$ ", *Journal of Molecular Catalysis A: Chemical*, Volume 249, Issues 1-2, 18 April 2006, Pages 1-3.
- 229) Majid M. Heravi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, "Dodecatungstophosphoric Acid ($H_3PW_{12}O_{40}$): A Novel and Efficient Recyclable Catalyst for Synthesis of 1,1-Diacetates from Aromatic Aldehydes in Solvent-Free System and Their Deprotection", *Synthetic Communications*, Volume 36, 2006, Pages 3109–3115.
- 230) Majid M. Heravi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, "A catalytic method for synthesis of Biginelli-type 3,4-dihydropyrimidin-2 (1H)-one using 12-tungstophosphoric acid", *Journal of Molecular Catalysis A: Chemical*, Volume 242, Issues 1-2, 1December 2005, Pages 173-175.
- 231) Mohammad H. Alizadeh, Hossein Razavi, **Fatemeh F. Bamoharram**, Kazem Daneshvar, "The oxidative cleavage of carbon-tin bond catalyzed by

heteropolyacids of molybdenum", Journal of Molecular Catalysis A: Chemical, Volume 206, Issues 1-2, 1 October 2003, Pages 89-93.

- 232) Mohammad H. Alizadeh, Hossein Razavi, **Fatemeh. F. Bamoharram**, Mohammad K. Hassanzadeh, Roushan Khoshnavazi, Farokhzad M. Zonoz, "Novel Catalytic Acetylation of Alcohols with Preyssler's Anion, $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ ", Kinetics and Catalysis, Volume 44, No. 4, 2003, Pages 524–528.
- 233) Radineh Motamedi, Majid M. Heravi, Zahra Nazari, **Fatemeh. F. Bamoharram**, "Regioselective Synthesis of 2-Substituted [1,2,4]Triazolo[5,1-b][1,3]thiazin-7-ones by Heteropolyacids", Phosphorus, Sulfur, and Silicon and the Related Elements, Volume 185, Issue 8, 2003, Pages 1672 - 1675.

- **International Proceeding:**

- 1) Sharifi, A.H., Mozhdehi, A.M., Sharifi, S., Moghaddam Jafari, A., **Bamoharram, F.F.**, Inorganic - Organic Salts of $[\text{CuNiV}_{11}\text{O}_{40}]^{21-}$ as Green Photocatalysts in the Synthesis of Ag Nanoparticles, 2nd International Congress on Science and Engineering, Mar. 2019, Hamburg, Germany.
- 2) Sharifi, S., Khosravi, H., Mozhdehi, A.M., Sharifi, A.H., **Bamoharram, F.F.**, Experimental investigation for the effect of nano-zinc titanate/silica/Preyssler addition on the compressive strength of concrete, 7th International Congress on Nanoscience and Nanotechnology (ICNN2018), Sep. 2018, Tehran, Iran.
- 3) Moghadam Jafari, A., **Bamoharram, F.F.**, Mozhdehi, A.M., Synthesis and Characterization of Functionalized Nano Silica Supported Potassium Acidic Salt of Preyssler Heteropoly Acid as a Green Photocatalyst for Bleaching of Azo Dyes, 14th nanoscience and nanotechnology conference, ÇESME, Sep. 2018, Izmir, Turkey.
- 4) Moghaddam Jafari, A., **Bamoharram, F.F.**, Mozhdehi, A.M., Sharifi, A.H., Sharifi, S., Grafting the Cesium Acidic Salt of Sodium-30-Tungstopentaphosphate Nanoparticles, on to 3-Aminopropyltriethoxy Silane Functionalized Fumed Silica: An Efficient Green Nanocomposite in Photodegradation of Malachite Green", 7th International Congress on Nanoscience and Nanotechnology (ICNN2018), Sep. 2018, Tehran, Iran.
- 5) Mozhdehi, A.M., Jafari, M., Ganjali, A., Sharifi, S., **Bamoharram, F.F.**, Nanoclay- supported Preyssler heteropolyacid: a new and effective nanocomposite to improve the compressive strength of concrete", 7th International Congress on Nanoscience and Nanotechnology (ICNN2018), Sep. 2018, Tehran, Iran.

- 6) Mozhdehi, A.M., **Bamoharram, F.F.**, Ganjali, A., Preyssler Heteropolyacid, A Green Co-Reducing Agent in the Bio-synthesis of Ag Nano -particles in the Presence of Chaetomorpha linum Seaweed, 5th International Conference on Nanotechnology, Nanoscience & Advanced Materials (ICNNAM), Feb. 2018, Malaysia.
- 7) Mozhdehi, A.M., **Bamoharram, F.F.**, Ganjali, A., Sharifi, S., Laboratory Investigation of Nanofibers/Heteropolyacid as a New and Green Nano -composite to Improve the Compressive Strength of Concrete, International Conference on Recent Advance in Engineering and Technology (ICRAET), Jan. 2018, Dubai, UAE.
- 8) Sharifi AH, Zahmatkesh I, **Bamoharram. F. F**, Effect of volume fraction and temperature on viscosity of titanium dioxide /salt-water nanofluid, 27th Annual International conference of Iranian Society of Mechanical Engineering (ISME), Apr. 2019, Tehran, Iran
- 9) Sahar Pojhan, **Fatemeh. F. Bamoharram**, Majid M. Heravi, "A SYSTEMATIC STUDY ABOUT THERMAL STABILITY OF SODIUM-30 TUNGSTO PENTAPHOSPHATE WITH DIFFERENT COUNTER IONS", 5th EuCheMS Chemistry Congress, 31 August - 4 September 2014, Istanbul-Turkey.
- 10) Azadeh Radfard, **Fatemeh. F. Bamoharram**, Mahmud Ebrahimi, " Synthesis and Characterization of A Magnetic Photoactive Catalyst Based On Sodium 30-tungsto Pentaphosphate", 5th EuCheMS Chemistry Congress, 31 August - 4 September 2014, Istanbul- Turkey.
- 11) Maryam Saadatfar, **Fatemeh. F. Bamoharram**, Majid M. Heravi, "SYNTHESIS, CHARACTERIZATION AND STUDY OF THERMAL STABILITY OF SUPPORTED 18-TUNGSTO PHOSPHORIC ACID ON ZEOLITES AND CLAYS ", 5th EuCheMS Chemistry Congress, 31 August - 4 September 2014, Istanbul- Turkey.
- 12) Marjani S.A. , **Bamoharram. F.F** , Ayati A.," Biosynthesis and Characterization of Silver Nanoparticles Using Extract of Pistacia Atlantica", International Congress on Natural Products, Islamic Azad University of Mashhad, Iran (Dec,11,2013).
- 13) Valizadeh E. , **Bamoharram. F.F** , Ayati A.," Biosynthesis and Characterization of Gold Nanoparticles Using Extract of Marine Algae", International Congress on Natural Products, Islamic Azad University of Mashhad, Iran (Dec,11,2013).
- 14) **Fatemeh. F. Bamoharram** , Atena Ghorbaniani, Majid M Heravi, Ali Ahmadpour, Ali Ayati, "Synthesis and Characterization of Modified Carbon Nanotubes with Silica-supported Preyssler Nano Particles and Study of Their Catalytic Activities in Synthesis of β -acetamido Ketones/Esters", The 3rd WSEAS International Conference on Nanotechnology,(Recent Researches in Communications, Electronics, Signal Processing and Automatic Control), February, 2012, Cambridge University, UK.

- 15) Ali Ayati, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Mina Roshani, Majid M Heravi, " Size-controlled and Green Synthesis of Metal Nanoparticles Using Molybdophosphoric Acid", The 3rd WSEAS International Conference on Nanotechnology, (Recent Researches in Communications, Electronics, Signal Processing and Automatic Control), February, 2012, Cambridge University, UK.
- 16) **F. F. Bamoharram**, S. Hashemi, H. Rashidi, M. M. Heravi, " Preyssler: A Green and Solid Acid Catalyst for Synthesis of ZnO Nanoparticles", The 4th Nanoscience and Nanotechnology Symposium, 2011, BALLY, Andonesia.
- 17) **Fatemeh. F. Bamoharram**, Mohammad. Javad Sane Charkhi, Majid M. Heravi, Mina Roshani, " Silica-Supported Preyssler Nano Particles : A Green Catalyst For Synthesis Of Polyhydroquinoline Derivatives Via A One-Pot Multicomponent Reaction Under Solvent-Free Conditions", 3rd International Conference on Nanoscience and Nanotechnology, 9-11 November, 2010, Shiraz University, Shiraz, Iran.
- 18) **Fatemeh. F. Bamoharram**, Maryam. Azimizadeh, Jamshid Chamani, Omid Rajabi, Mohammad. Javad Sane Charkhi, "Interraction Of Silver Nanoparticles (AgNPs) And Hemoglobin In Thalassaemia And Normal Persons", 3rd International Conference on Nanoscience and Nanotechnology, 9-11 November, 2010, Shiraz University, Shiraz, Iran.
- 19) Narges Eeslami, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M. Heravi, Hadis Nazari, " EFFICIENT SYNTHESIS OF ASPIRIN USING NANO SILICA-SUPPORTED PREYSSLER AS A GREEN AND RECYCLABLE CATALYST", 3rd International Conference on Nanoscience and Nanotechnology, 9-11 November, 2010, Shiraz University, Shiraz, Iran.
- 20) Ali . Hafizi, Ali Ahmadpour, Majid M. Heravi, **Fatemeh. F. Bamoharram**, " LIQUID PHASE ALKYLATION OF BENZENE WITH 1-DECENE CATALYZED BY NANO SiO₂ SUPPORTED 12-TUNGSTOPHOSPHORIC ACID", 3rd International Conference on Nanoscience and Nanotechnology, 9-11 November, 2010, Shiraz University, Shiraz, Iran.
- 21) Ghadir Rajabzadeh, Narjes Alamolhoda, **Fatemeh. F. Bamoharram**, Fe-DOPED TiO₂ NANOPARTICLES AS EFFICIENT CATALYST IN THE PARTIAL OXIDATION OF ALCOHOLS", 3rd International Conference on Nanoscience and Nanotechnology, 9-11 November, 2010, Shiraz University, Shiraz, Iran.
- 22) Hadis Nazari, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M. Heravi, Narges Eeslami, " NANOPREYSSLER'S ANION AS HETEROGENEOUS AND RECYCLABLE CATALYSTS FOR THE SYNTHESIS OF ACETYL SALICYLIC ACID", 3rd International Conference on Nanoscience and Nanotechnology, 9-11 November, 2010, Shiraz University, Shiraz, Iran.
- 23) Ali Ayati¹, Ali Ahmadpour¹, **Fatemeh. F. Bamoharram**, Majid M. Heravi, Hamed Rashidi¹, Bahareh Tanhaei, " A RAPID SIMPLE ROUTE FOR SYNTHESIS OF NANOSIZED SILVER BY CHEMICAL

PHOTOREDUCTION METHOD USING POLYOXOMETALATE", 3rd International Conference on Nanoscience and Nanotechnology, 9-11 November, 2010, Shiraz University, Shiraz , Iran.

- 24) **Fatemeh. F. Bamoharram** , Majid M. Heravi , Mina Roshani, Mohammad J. Sane Charkhi, "ONE-POT MULTICOMPONENT SYNTHESIS OF 3,4-DIHYDROPYRIMIDIN-2(1H)-ONES USING SILICA-SUPPORTED PREYSSLER NANOPARTICLES AS A NOVEL, ECO-FRIENDLY AND GREEN CATALYS", 6th International Conference on Environmental Catalysis (ICEC 2010), 12-15 September, 2010 , Beijing, China.
- 25) **Fatemeh. F Bamoharram** , Majid M Heravi, Mina Roshani, Mahsa Monabati, " Sodium 30-Tungstopentaphosphate as a Green and Eco-friendly Catalyst for One-pot Multi Component Synthesis of 4-Arylaminoquinazolines", 3rd International IUPAC Conference on Green Chemistry, 15 - 19 August, 2010, Ottawa, Canada.
- 26) **Fatemeh. F. Bamoharram**, Ali Javid , Majid M. Heravi, "Silica-supported Preyssler Nano Particles: A Novel and Reusable Catalyst for One-Pot Synthesis of New Family of β -Acetamido Carbonyl Compounds via a Mannich-Type Reaction ", International Conference on Nanotechnology: Fundamentals and Applications, Ottawa, Ontario, Canada, 4-6 August , 2010.
- 27) **Fatemeh. F. Bamoharram** , Majid M Heravi, " "Sodium 30-tungstopentaphosphate as a green and novel nanocatalyst: synthesis and study of application", The 2nd WSEAS International Conference on Nanotechnology, (ADVANCED RESEARCH in PHYSICS and ENGINEERING), 20-22 February, 2010, Cambridge University, UK.
- 28) Hadis Nazari, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M. Heravi, Narges Eslami, "SYNTHESIS OF ACETYL SALICYLIC ACID BY NANO PREYSSLER'S ANION AS GREEN, ECO- FRIENDLTY AND RECYCLABLE CATALYST", INTERNATIONAL CONFERENCE ON ENVIRONMENT 2010 (ICENV 2010), 13-15 December , 2010, PENANG, Malaysia.
- 29) Narges Eslami, Ali Ahmadpour, **Fatemeh. F. Bamoharram**, Majid M. Heravi, Hadis Nazari, "NANO SILICA- SUPPORTED PREYSSLER AS A GREEN AND ECO- FRIENDLY CATALYST FOR EFFICIENT SYNTHESIS OF ASPIRIN", INTERNATIONAL CONFERENCE ON ENVIRONMENT 2010 (ICENV 2010), 13-15 December, 2010, PENANG, Malaysia.
- 30) Ali Hafizi, Ali Ahmadpour, Majid M. Heravi, **Fatemeh. F. Bamoharram**, "LIQUID PHASE ALKYLATION OF BENZENE WITH 1-DECENE OVER SILICA SUPPORTED H14[NaP5W30O110] AS A GREEN AND REUSABLE CATALYST", INTERNATIONAL CONFERENCE ON ENVIRONMENT 2010 (ICENV 2010), 13-15 December, 2010, PENANG, Malaysia.

- 31) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Hamzeh Mir, Hadi Nosrati, "Divanadium-substituted Molybdophosphate Acid, as an Effective and Green Catalyst for Esterification of Hexanoic Acid", 13th European Conference on Applications of Surface and Interface Analysis, October 18-23, 2009 , Antalya- Turkey.
- 32) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Maryam Dehghan , " $H_{14} [NaP_5W_{30}O_{110}]$ as a New and Green Photocatalyst for Oxidation of Aromatic Alcohols", 13th European Conference on Applications of Surface and Interface Analysis, October 18-23, 2009 , Antalya- Turkey.
- 33) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Tayebeh Mirghafari, " $[NaP_5W_{30} O_{110}]^{14-}$ As Efficient and Eco-friendly Catalyst for Synthesis of Acylals", 6th World Congress on Oxidation Catalysis, July 5-10, 2009, Lille – France.
- 34) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Soheyla Mehdizadeh, " Catalytic Performance of $H_{14}[NaP_5W_{30}O_{110}]$ As A Green and Reusable Catalyst in Photocatalytic Oxidation of Aliphatic and Aromatic Aldehydes", International symposium on Catalysis and Fine Chemicals, December 13-17, 2009, Korea University, Seoul, Korea.
- 35) Mohammad M. Heravi, **Fatemeh. F. Bamoharram**, Sahar Raoof, "Kinetic studies in photochemical reaction of azo dyes of methyloange in presence of Heteropolyanion as catalyst", is International symposium on Catalysis and Fine Chemicals, December 13-17, 2009, Korea University, Seoul, Korea.
- 36) **Fatemeh. F. Bamoharram**, Mohammad. M. Heravi, Pouran Ardalan, Tourun Ardalan, "PREYSSLER CATALYST: AN EFFICIENT AND GREEN CATALYST FOR PREPARATION OF ETHYL LACTATE", International Catalysis Conference, Shahid Beheshti University, April 28-30, 2008, Tehran, Iran.
- 37) **Fatemeh. F. Bamoharam**, Mohammad. M. Heravi, Touran. Ardalan, Pouran. Ardalan, " 12- TUNGSTOCOBALT(III) ATE ION AS A GREEN HETEROPOLY ANION FOR CATALYTIC CLEAVAGE OF C-SN BOND", International catalysis conference, Shahid Beheshti University, April 28-30,2008,Tehran,Iran.
- 38) **Fatemeh. F. Bamoharram**. Majid. M.Heravi, Mina. Roshani, Maryam. R. Toosi, "SYNTHESIS AND CHARACTERIZATION OF SODIUM 30- TUNGSTOPENTAPHOSPHAT/SiO₂, NANOPARTICLES AND THEIR CATALYTIC PROPERTIES", Second Conference of Nanostructures, March 11-14, 2008, Kish University, Iran.
- 39) **Fatemeh. F. Bamoharram**, Kazem Daneshvar Hosseini." CONTROLLED

SYNTHESIS AND CHARACTERIZATION OF IRON OXIDE NANOPARTICLES OBTAINED BY GLYCOTHERMAL METHOD", Second conference of Nanostructures, March 11-14, 2008, Kish University, Iran.

- 40) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Ladan Jodeyre, "PREYSSLER AS A NONEL AND GREEN NANOCATALYST FOR PHOTODEGRADATION OF AZO DYES", 2nd international congress on nanoscience and nanotechnology, October 28-30, 2008, Tabriz University, Iran.
- 41) Majid M. Heravi, Jamshid Chamani, **Fatemeh. F. Bamoharram**, Nasrin. Karimi "A SYSTEMATIC STUDY FOR INTERACTION OF PROTEINS WITH POLYOXOMETALATES", International symposium on catalysis and fine chemicals, December 16-21, 2007, Singapore.
- 42) **Fatemeh. F. Bamoharram**, Majid M Heravi, Mina Roshani, Ladan. Jodeyre, "PHOTOCATALYTIC DEGRADATION OF ORGANIC COMPOUNDS BY SODIUM-TUNGSTOPENTAPHOSPHATE", International symposium on catalysis and fine Chemicals, December 16- 21, 2007, Singapore.
- 43) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Maryam R.Toosi "SYNTHESIS OF POLYOXOMETALATE NANOPORTICLES, $H_{14}[NaP_5W_{30}O_{110}]/SiO_2$ AND THEIR CATALYTIC PROPERTIES", International symposium on catalysis and fine Chemicals, December 16-21, 2007, Singapore.
- 44) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Niloofar Tavakoli, "SODIUM 30-TUNGSTOPENTAPHOSPHATE, $[NaP_5W_{30}O_{110}]^{14-}$, AS A REUSABLE AND ECOFRIENDLY CATALYST IN SELECTIVE OXIDATION OF PYRIDINE CARBOXYLIC ACIDS", 4th EFCATS School on Catalysis CATALYST DESIGN - FROM MOLECULAR TO INDUSTRIAL LEVEL, September 20-24, 2006, Tsars Village (suburb of St. Petersburg), Russia.
- 45) Majid M. Heravi, **Fatemeh. F. Bamoharram**, Mina Roshani, Mina Akbarpour, "PREYSSLER CATALYST, $[NaP_5W_{30}O_{110}]^{14-}$, A MILD, GREEN AND EFFICIENT CATALYST FOR OXIDATION OF AROMATIC AMINES TO AZOXY COMPOUNDS", 4th EFCATS School on Catalysis CATALYST DESIGN - FROM MOLECULAR TO INDUSTRIAL LEVEL, September 20-24, 2006, Tsars Village (suburb of St. Petersburg), Russia.

- **National Proceedings**

- 1) Eleheh Valizade Kakhki , **F. F. Bamoharram**, Ali Ayati," Synthesis of Gold Nano Particles from Marine Plants Using Mixed Addenda PreySSLer as an

- Inorganic Cluster Catalyst",15th Iranian Chemistry Conference, Sabzevar University, Sabzevar , Iran (Nov,3, 2013).
- 2) Afsane Moghadam Jafari, **F. F. Bamoharram** , Ali Ayati," Acidic Salt Sodium-30-tungstophosphate : An Eco-friendly and Recyclable Inorganic Cluster Catalyst for Synthesis of Gold Nanoparticle",15th Iranian Chemistry Conference, Sabzevar University, Sabzevar , Iran (Nov,3, 2013).
 - 3) Saeideh Kadkhodaei, **F. F. Bamoharram** , Ali Ayati," Gold-Mixed Addenda Preyssler-Titanium dioxide Nanocomposite : Synthesis , Characterization and Study of its Application for Photocatalytic Degradation of Malachite Green",15th Iranian Chemistry Conference, Sabzevar University, Sabzevar , Iran (Nov,3, 2013).
 - 4) Tahmine Kohanfekar , **F. F. Bamoharram** , Ali Ayati," Synthesis and Characterization of a Novel Organic-Inorganic Complex of 18-Tungstophosphoricacid",15th Iranian Chemistry Conference, Sabzevar University, Sabzevar , Iran (Nov,3, 2013).
 - 5) M.Poorzaki , **F. F. Bamoharram** , Ali Ayati, A.Ahmadpour," Synthesis and Characterization of a new nanohybrid including Multiwalled carbon Nanotubes- Polyoxometalate-Au Nanoparticles",15th Iranian Chemistry Conference, Sabzevar University, Sabzevar , Iran (Nov,3, 2013).
 - 6) Sh.Rouzbeh, **F. F. Bamoharram** , Ali Ayati, A.Ahmadpour," Decoration of Multiwall Carbon Nanotubes Using a new Salt of Preyssler -Au Nanoparticles",15th Iranian Chemistry Conference, Sabzevar University, Sabzevar , Iran (Nov,3, 2013).
 - 7) Sedigheh A.Marjani, **F. F. Bamoharram** , Ali Ayati," Biosynthesis and Characterization of Nanoparticles Using Extract of Crous Sativus",15th Iranian Chemistry Conference, Sabzevar University, Sabzevar , Iran (Nov,3, 2013).
 - 8) M. Jahangiri, M. M. Heravia, Y. S. Beheshtiha , **F. F. Bamoharram** ," Catalytic one pot Synthesis of new derivatives of diindenopyridine Using of Preyssler Heteropolyacids as a green Catalyst",16th Iranian Chemistry Conference, Yazd University, Yazd , Iran (Sep,16, 2013).
 - 9) M. Poorzaki, **F.F. Bamoharram**, A. Ayati, A. Ahmadpour," Synthesis and Characterization of Modified Carbon Nanotubes with Potassium salts of the Monosubstituted Keggin Polyoxometalates",16th Iranian Chemistry Conference, Yazd University, Yazd , Iran (Sep,16, 2013).
 - 10) Saeideh Kadkhodaei, **F.F. Bamoharram**, A. Ayati," Mixed Addenda Preyssler: A New, Green and Reusable Catalyst for Preparation of Gold Nanoparticles",16th Iranian Chemistry Conference, Yazd University, Yazd , Iran (Sep,16, 2013).
 - 11) Sh. Rouzbeh, **F.F. Bamoharram**, A. Ayati, A. Ahmadpour," Synthesis and Characterization of a Novel Nanostructured Porous Hybrid Material Based on Salts of the Vanadonickelocuprate (II) POM with Multiwall Carbon

- Nanotubes", 16th Iranian Chemistry Conference, Yazd University, Yazd , Iran (Sep,16, 2013).
- 12) T. Kohanfekar , **F. F. Bamoharram**, A. Ayati," Catalytic Performance of Nanopreysler Anion in Selective Oximation of Aromatic Aldehydes", 16th Iranian Chemistry Conference, Yazd University, Yazd , Iran (Sep,16, 2013).
 - 13) A. Moghaddam Jafari, **F. F. Bamoharram**, A. Ayati," Synthesis and Characterization of Gold-Preyssler-Titanium dioxide Nanocomposite: A New and Recyclable Catalyst for Photodegradation of Malachite Green", 16th Iranian Chemistry Conference, Yazd University, Yazd , Iran (Sep,16, 2013).
 - 14) T. Hekmatara, **F. F. Bamoharram**, L.Motevalizadeh, A.Ayati," Synthesis and Characterization of An Organic–Inorganic Nanocomposite Film Based on 30-tungstopentaphosphate Polyoxometalate", 16th Iranian Chemistry Conference, Yazd University, Yazd , Iran (Sep,16, 2013).
 - 15) Marjan Rahimi, **Fatemeh Farash Bamoharram**, Majid Momahed Heravi," Synthesis and Characterization of Metal Nanoparticle Embedded Organic-InorganicComposites", 14th Iranian Inorganic Chemistry Conference, Tehran University, Tehran , Iran (Nov,28, 2012).
 - 16) Mitra Malekkiani, Mohammad M. Heravi, **Fatemeh. F. Bamoharram**," Ultrasonic-assisted Synthesis and Charactrization of A New Bulk and Micro Structure of Mixed-Ligand Zinc(II) Coordination Polymer", 14th Iranian Inorganic Chemistry Conference, Tehran University, Tehran , Iran (Nov,28, 2012).
 - 17) Marjan Rahimi, **Fatemeh. Farash. Bamoharram**, Majid Momahed Heravi," Synthesis and Characterization of Metal Nanoparticle Embedded Organic Inorganic Composites", 18th Iranian Seimnar of Organic Chemistry, Zahedan University, Zahedan , Iran (Jun,7, 2012).
 - 18) Naghmeh Hassanzadeh, **Fatemeh. F. Bamoharram** , Majid M. Heravi," Synthesis and characterization of functionalized multiwall carbon nanotubes with H14[NaP5W29MoO110] and investigation of their catalytic activities in synthesis of β -acetamido ketones", 19th Iranian Seminar on Organic Chemistry , Rafsanjan University, Rafsanjan , Iran , 2012
 - 19) A. Javid, M. M. Heravi, **F. F. Bamoharram**, J. Ebrahimi," SILICA-SUPPORTED PREYSSLER NANO PARTICLES: A NOVEL, GREEN AND REUSABLE CATALYST FOR RAPID FOUR-COMPONENT SYNTHESIS OF PYRANOPYRAZOLES IN WATER", 2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16, 2011).
 - 20) J. Ebrahimi , **F. F. Bamoharram**, M. M. Heravi, A. Ahmadpour , S. M. Zebarjad," NANO PREYSSLER : AN EFFICIENT AND REUSABLE SOLID CATALYST FOR ESTERIFICATION OF AROMATIC ALCOHOLS", 2th Conference on Application of Nanotechnology in Sciences,

Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16, 2011).

- 21) A. Ayati, A. Ahmadpour, **F. F. Bamoharram**, M. M. Heravi, H. Rashidi, B. Tanhaei," A NOVEL CATALYST FOR PHOTOSYNTHESIS OF GOLD NANOPARTICLES",2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16,2011)
- 22) B. Tanhaei, A. Ahmadpour, **F. F. Bamoharram**, M. M. Heravi, H. Rashidi, A. Ayati," PHOTOCATALYSIS SYNTHESIS OF SILVER NANOPARTICLES USING PREYSSLER ACID",2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16,2011).
- 23) A. Ghorbaniani , **F. F. Bamoharram** , M. M. Heravi, A. Ahmadpour," MODIFICATION OF CARBON NANOTUBES WITH NANO PREYSSLER HETEROPOLYACID",2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16,2011).
- 24) F. Ghaur Babaie , **F. F. Bamoharram**, M. M. Heravib, N. Tavakoli – Hoseini," FABRICATION OF ZnO NANOPARTICLES in A NEW IONIC LIQUID BASED ON KEGGIN HETEROPOLYACID",2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16,2011).
- 25) S. Hashemi , **F. F. Bamoharram** , H. Rashidi , M. M. Heravi," SYNTHESIS OF ZnO NANOPARTICLES USING BULK PREYSSLER: A GREEN AND SOLID ACID HETEROPOLYACID",2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16,2011).
- 26) S. Saneinezhad , **F. F. Bamoharram** , M. M. Heravi," PREPARATION OF WATERPROOF BUILDING NANO MATERIALS USING KEGGIN HETEROPOLYACID AS A GREEN AND SUSTAINABLE CATALYST",2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16,2011).
- 27) N. Eslami, A. Ahmadpour,, **F.F. Bamoharram**, M.M. Heravi, H. Nazari," SILICA-SUPPORTED KEGGIN NANO PARTICLES AS A CATALYST FOR THE SYNTHESIS OF ACETYL SALICYLIC ACID",2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16,2011).
- 28) H. Nazari, A. Ahmadpour,, **F. F. Bamoharram**, M. M . Heravi, N. Eslamia," PREPARATION OF SILICA-SUPPORTED PREYSSLER NANOPARTICLES AND ITS CATALYTIC PERFORMANCE IN ESTERIFICATION OF ACETYLSALICYLIC ACID WITH ACETIC

ANHYDRIDE", 2th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine ,Islamic Azad University of Mashhad, Iran (Aug,16, 2011).

- 29) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mina. Roshani, javad Ebrahimi, Nilofar Tavakoli –Hoseini, " Synthesis and Characterization of a New Inorganic Liquid Acid and Study of its Catalytic Activity in Esterification Reactions", 12th Iranian Conference of Inorganic Chemistry, Gilan University, Gilan, Iran (September 15-16, 2010).
- 30) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mina. Roshani, Raheleh Omidinia, "Catalytic Behavior of Nano Preyssler as an Inorganic Catalyst in Synthesis of Aliphatic and Aromatic Carboxylic Acids ", 12th Iranian Conference of Inorganic Chemistry, Gilan University, Gilan, Iran (September 15-16, 2010).
- 31) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mina. Roshani, Hoda Teymouri, "Synthesis of Carbonyl Compounds Using a Green and Environmentally Inorganic Nano Catalyst: Nano Preyssler", 12th Iranian Conference of Inorganic Chemistry, Gilan University, Gilan, Iran (September 15-16, 2010).
- 32) Hamed Rashidi¹, Ali Ahmadpour, **Fatemeh F. Bamoharram**, Majid M. Heravi, Ali. Ayati, "Synthesis of Useful Contamination-Free Silver Nanoparticle Suspensions by Using Polyoxometalate", 12th Iranian Conference of Inorganic Chemistry, Gilan University, Gilan, Iran (September 15-16, 2010).
- 33) **Fatemeh F. Bamoharram**, Majid. M. Heravi, Ali Ahmadpour, Mohammad Javad Sane Charkhi, Ali Ayatic, Hamed Rashidi, "One-Pot Synthesis of α -Acetamido Ketones and Esters Using Bulk and Activated Carbon-Supported Tungstophosphoric Acid as an Inorganic Green Catalyst", 12th Iranian Conference of Inorganic Chemistry, Gilan University, Gilan, Iran (September 15-16, 2010).
- 34) **Fatemeh F Bamoharram** , Mohammad M Heravi, Majid M. Heravi, Mozghan Meraji, " Performance of $H_{14}[NaP_5W_{30}O_{110}]$ as a Green and Eco-friendly Inorganic Promoter for Synthesis of Ag Nanoparticles", 11th Iranian Conference of Inorganic Chemistry, Sanati Isfahan University, Isfahan, Iran (May 12-14, 2009).
- 35) **Fatemeh F. Bamoharram**, Majid. M. Heravi, Mina. Roshani, Soheyla Mehdizadeh, "Photocatalytic Activity of Sodium 30-tungstophosphate as a Green and Reusable Inorganic Solid Acid Catalyst in Photooxidation of Aldehydes", 11th Iranian Conference of Inorganic Chemistry, Sanati Isfahan University, Isfahan, Iran (May 12-14, 2009).
- 36) **Fatemeh F. Bamoharram**, Majid. M. Heravi, Mina. Roshani, Shaghayegh Arjmandi, " Catalytic performance of sodium 30- tungstophosphate (Preyssler anion) as a green and reusable solid acid

catalyst in synthesis of 2-Imidazoles", 16th Iranian Conference of Organic Chemistry, Zanjan University, Zanjan, Iran (August 18-20 2009).

37) Fatemeh. F. Bamoharram, Majid. M. Heravi, Mina. Roshani, Katauon Kosari, " Catalytic synthesis of 4-aminoquinazolines in the presence of Dawson Heteropolyacid as a green and reusable catalyst", 16th Iranian Conference of Organic Chemistry, Zanjan University, Zanjan, Iran (August, 18-20, 2009).

38) Fatemeh. F. Bamoharram, Majid. M. Heravi, Mina. Roshani, Fatemeh Dourandish, " H₁₄ [NaP₅W₃₀O₁₁₀] as an efficient heteropolyacid for catalytic synthesis of polyhydroquinolines", 16th Iranian Conference of Organic Chemistry, Zanjan University, Zanjan, Iran (August, 18-20, 2009)

39) Fatemeh. F. Bamoharram, Majid. M. Heravi, Mina. Roshani, Mahsa Monabbati, "Multi - component synthesis of 4-arylaminoquinazolines using heteropolyacids as green and eco-friendly catalysts" , 16th Iranian Conference of Organic Chemistry, Zanjan University, Zanjan, Iran (August, 18-20, 2009).

40) Fatemeh. F. Bamoharram, Majid. M. Heravi, Mina. Roshani, Mohammad Javad Sane, " One-Pot synthesis of β -acetamido ketones and esters in the presence of mixed- addenda Keggin and Preyssler heteropolyacids as recyclable and green catalysts", 16th Iranian Conference of Organic Chemistry, Zanjan University, Zanjan, Iran (August, 18-2, 2009).

41) Hamid M. Heravi, Fatemeh. F. Bamohorram. Amir. R. Anvar Hosseini" Investigotion of thermal conductivity of nanofluids, 1th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine. Islamic Azad University of Mashhad, Iran (Feb,14-15, 2008).

42) Fatemeh. F. Bamoharram, Majid M. Heravi, Ladan Jodeyre, Maryam R. Toosi" A phtocotolytic Comparison for Behavior of Preyssler Heteropolyacid in Nano and Bulk form, 1th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine. Islamic Azad University of Mashhad, Iran (Feb,1415,2008).

43) Fatemeh. F. Bamoharram, M. Momen Heravi, M. Meraji, " A new Route for Preparation of Silver Nanoparticles in the Presence of an Inargonic Acidic Catalyst, 1th Conference on Application of Nanotechnology in Sciences, Engineering and Medicine. Islamic Azad University of Mashhad, Iran (Feb,14-15, 2008).

44) Fatemeh. F. Bamoharram, Kazem Daneshvar, Hamid M. Heravi, "Preparation of ZnO Nanoparticles by Glycothermal Reaction of Zinc Complexes, 1th Cconference on Application of Nanotechnology in Sciences, Engineering and Medicine . Islamic Azad university of Mashhad, Iran (Feb,14-15, 2008).

45) Fatemeh. F. Bamoharram, Majid. M. Heravi, Mina Roshani, Fatemeh Abrishami, "Highly Selective Oxidation of Picolinic acid in the Presence of

Various Heteropolyanions as Green and Solid Inorganic Catalysts", 9th Iranian Seminar of Inorganic Chemistry, Semnan University, Semnan, Iran (Mar, 7-8, 2007).

- 46) **Fatemeh. F. Bamoharram**, Majid M. Heravi, Mina Roshani, Ali Gharib, "O-acetylation of Salicylic acid via a Catalytic Method by a Green, Efficient and Recyclable Inorganic Solid Acid Catalyst, Preyssler's Anion at Room Temperature", 9th Iranian Seminar of Inorganic Chemistry, Semnan University, Semnan, Iran (Mar. 7-8, 2007).
- 47) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mina Roshani, Tayebeh Mirghaffari, " Sodium 30-tungstophosphate, $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$, as a Green Catalyst and Usefull Inorganic Cluster in Selective Synthesis of Gem-bis (acyloxy)-alkanes at Room Temperature", 9th Iranian Seminar of Inorganic Chemistry, Semnan University, Semnan, Iran (Mar, 7-8, 2007).
- 48) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mohammad. M. Heravi, Ali Garib, "Catalytic Performance of Preyssler and Mixed-addenda Heteropolyanions as Inorganic Solid Catalysts in Lactonization of Various Diols", 9th Iranian Seminar of Inorganic Chemistry, Semnan University, Semnan, Iran (Mar, 7-8, 2007).
- 49) **Fatemeh. F. Bamoharram**, Majid. M. Heravi, Mohammad M. Heravi, Mina. Roshani, Manouchehr. Jahangir, " Preyssler Catalyst, $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ as an Efficient Inorganic Solid Acid Catalyst in Direct Esterification of Butanol", 9th Iranian Seminar of Inorganic Chemistry, Semnan University, Semnan, Iran (Mar, 7-8, 2007).
- 50) Majid M. Heravi , Farahnaz K. Behbahani, **Fatemeh. F. Bamoharram**, "Acetylation of alcohols and phenols with Heteropoly acids in acetic anhydride: A green protocol for synthesis of Aspirin", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 51) Majid M. Heravi Vahideh Zadsirjana , Khadijeh Bakhtiari, **Fatemeh. F. Bamoharram**, "Heteropolyacid catalyzed one-pot synthesis of 4-substituted-1,4- dihydropyridine derivatives via the Hantzsch three component condensation", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 52) Hossein A. Oskooie, Majid M Heravi, Tina Benmorad, Khadijeh Bakhtiari, **Fatemeh F. Bamoharram**, Maryam H. Tehrani, "Aromatic substitution: heteropolyacid catalyzed nitration of aromatic compounds", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 53) **Fatemeh. F. Bamoharram**, Mina Roshani, Niloofar Tavakoli, "A catalytic processes for highly selective oxidation of pyridine derivatives by green and eco-friendly catalysts: heteropoly acids", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).

- 54) **Fatemeh. F. Bamoharram**, Mina Roshani, Manouchehr Jahangir, "Highly selective synthesis of aliphatic esters in the presence of Preyssler heteropolyacid as green and reusable catalyst", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 55) **Fatemeh. F. Bamoharram**, Mina Roshani, Ali Gharib, "Synthesis of lactones via a catalytic method by mixed addenda Keggin heteropolyacids: $K_7[PW_{11}MO_{40}]$ (M= Co(II), Ni(II), Cu(II), Zn(II))", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 56) Majid M. Heravi, Khadijeh Bakhtiaria, Vahideh Zadsirjan , Hossein A. Oskooiea, **Fatemeh. F. Bamoharram**, " Heteropoly acid catalyzed synthesis of 1,3,4-oxadiazoles", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 57) Majid M. Heravi , Masoumeh Haghghi , Fatemeh Derikvand , **Fatemeh. F. Bamoharram**, "Highly efficient, one-pot synthesis of tetrasubstituted imidazoles catalyzed by $MnCl_2$ and $FeCl_3$ ", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 58) Majid.M.Heravi , Anahita Haerir, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, Hossein A. Oskooie, "Synthesis of Isoxazole derivatives using Heteropolyacids as efficient green catalyst", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 59) Majid.M.Heravi , Shahla Hassan pour, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, Hossein A. Oskooiea, "A catalytic method for synthesis of Biginelli-type 3, 4-dihydropyrimidin-2(1H)-one using $H_6P_2W_{18}O_{62}$ ", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 60) Majid M. Heravi , Shahla Hassan Pour , Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, Hossein A. Oskooie, "Highly efficient, direct acetylation of three methyl silyl ethers using $H_6P_2W_{18}O_{62}$ as a green and reusable catalyst", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 61) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, Hossein A. Oskooie, "Introduction a new methodology for one-pot synthesis of -Acetamido ketone and esters", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep. 7-9, 2006).
- 62) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand , **Fatemeh. F. Bamoharram**, Hossein A. Oskooie, " $H_6P_2W_{18}O_{62}$: An efficient and reusable catalyst for one-pot synthesis of acetamido ketone and esters", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 63) Majid M. Heravi, Khadijeh Bakhtiaria, Vahideh Zadsirjan ,Hossein A. Oskooiea, **Fatemeh. F. Bamoharram**, "Selective acetylation of alcohols and amines with ethyl acetate in the presence of $H_6[PMo_9V_3O_{40}]$ ", 13th Iranian

Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).

- 64) Majid M. Heravi, Khadijeh Bakhtiari, Negar M. Javadia, Hossein A. Oskooie **Fatemeh. F. Bamoharram**, " K₇ [PW₁₁CoO₄₀]: Efficient and eco-Friendly catalyst for the enamination of dicarbonyl compounds", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 65) Majid M. Heravi, Khadijeh Bakhtiari, Vahideh Zadsirjan, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Bromination of aromatic compounds with NBS catalyzed by Heteropoly acids", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 66) Majid M. Heravi, Khadijeh Bakhtiari, Vahideh Zadsirjan, , Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Green and reusable heteropolyacid-catalyzed oxidation of benzylic, allylic and aliphatic alcohols to carbonyl compounds", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 67) Majid M. Heravi, Khadijeh Bakhtiari , Vahideh Zadsirjan,, Hossein A. Oskooie, **Fatemeh. F. Bamoharram**, "Heteropoly acid catalyzed synthesis of tetrahydrobenzopyran derivatives", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 68) Majid M. Heravi, Fatemeh Derikvand , **Fatemeh. F. Bamoharram**, "Highly efficient, one-pot synthesis of tetrasubstituted imidazoles catalyzed by Keggin type heteropolyacids as green and reusable catalysts", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 69) Majid M. Heravi, Fatemeh Derikvand , Leila Ranjbar, **Fatemeh. F. Bamoharram**, Hossein A. Oskooie, "Heteropolyacids: Efficient and reusable catalysts for one-pot synthesis of pyrazoles", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 70) Majid M. Heravi, Radineh Motamedi, **Fatemeh. F. Bamoharram**, Nasim Seifi, "A catalytic method for synthesis of 6-Aryl -1H-Pyrazolo[3,4-d]pyrimidin-4[5H]-ones by heteropolyacids:H₁₄[NaP₅W₂₉MoO₁₁₀] and H₃PMo₁₂O₄₀", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 71) Majid M. Heravi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, "Dodecatungstophosphoric acid (H₃PW₁₂O₄₀): a novel and efficient recyclable catalyst for chemo-selective synthesis of 1, 1-diacetates from aromatic aldehydes in solvent-free system and their deprotection", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).
- 72) Majid.M. Heravi, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, "A catalytic method for synthesis of Biginelli-type 3, 4-dihydropyrimidin-2(1H)-

one using 12-tungstophosphoric acid", 13th Iranian Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, Iran (Sep, 7-9, 2006).

- 73) **Fatemeh. F. Bamoharram**, Mina. Roshani, Ali. Gharib, " A catalytic method with a green process for production of lactones in the presence of eco-friendly solid acid catalyst, Preyssler catalyst, $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ ", 12th Iranian Seminar of Organic Chemistry, Ahwaz Jundi Shapour University of Medical Sciences, Ahwaz, Iran (Mar, 7-9, 2006).
- 74) **Fatemeh. F. Bamoharram**, Mina. Roshani, Manouchehr Jahangir, " Preyssler Catalyst as green, eco-friendly and reusable catalyst for highly selective synthesis of phenylsalicylates". 12th Iranian Seminar of Organic Chemistry, Ahwaz Jundi Shapour University of Medical Sciences, Ahwaz, Iran (Mar, 7-9, 2006).
- 75) Majid M. Heravi, Leila Ranjbar, Fatemeh Derikvand, **Fatemeh. F. Bamoharram** " $\text{H}_{14} [\text{NaP}_5\text{W}_{30}\text{O}_{110}]$: A novel, efficient and green catalyst for synthesis of 1,5 benzodiazepines", 12th Iranian Seminar of Organic Chemistry, Ahwaz Jundi Shapour University of Medical Sciences, Ahwaz, Iran (Mar, 7-9, 2006).
- 76) Hossien Oskooie, Majid M. Heravi, Marzieh Khorasani, Fatemeh Derikvand, **Fatemeh. F. Bamoharram**, " An efficient knoevenagel condensation using 12-tungsto-phosphoric acid as a reusable green catalyst", 12th Iranian Seminar of Organic Chemistry, Ahwaz Jundi Shapour University of Medical Sciences, Ahwaz, Iran (Mar, 7-9, 2006.).
- 77) **Fatemeh. F. Bamoharram**, Mohammad Hassan Alizadeh, " Study of Heteropolyanions as efficient and eco-friendly catalysts in acetylation of aliphatic alcohols under homogeneous and heterogeneous conditions", 1st National Seminar of Iranian Woman and Research, Islamic Azad University of Mashhad, Mashhad, Iran (Feb, 2006).
- 78) **Fatemeh. F. Bamoharram**, Mina. Roshani, M. Moghayadi, " Novel catalytic oxidation of mono and di substituents aldehydes with Preyssler anion), $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ ", 11th Iranian Seminar of Organic Chemistry, Sanati Isfahan University, Isfahan, Iran (Feb, 1-3, 2005).
- 79) **Fatemeh. F. Bamoharram**, Mina. Roshani, Shahla Safaie, " Novel catalytic oxidation of benzyl alcohols in the presence of sodium-30 tungstopentaphosphate (Preyssler anion), $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ ", 11th Iranian Seminar of Organic Chemistry, Sanati Isfahan University, Isfahan, Iran (Feb, 1-3, 2005).
- 80) **Fatemeh. F. Bamoharram**, Mohammad Hassan Alizadeh, " Highly selective catalytic esterification of acetic acid and salicylic acid with sodium-30 tungstopentaphosphate (Preyssler catalyst), $[\text{NaP}_5\text{W}_{30}\text{O}_{110}]^{14-}$ ", 8th Iranian Seminar of Inorganic Chemistry, Azarbayegan Tarbiatmoallem University, Tabriz, Iran (Agu, 24-26, 2004).

- 81) Mohammad Hassan Alizadeh, **Fatemeh. F. Bamoharram**, " Study of catalytic-oxidative cleavage of C-Sn bond in tin organometallic complexes in the presence of heteropolyanion catalysts", 6th Iranian Seminar of Inorganic Chemistry, Ferdowsi University of Mashhad, Mashhad, Iran (2001).
- 82) Mohammad Hassan Alizadeh, **Fatemeh. F. Bamoharram**, " Synthesis of new compounds of Preyssler anion with formula of $[(C_nH_{2n+1})_4N]H_{14-x}[NaP_5W_{30}O_{110}]. nH_2O$, (n=6,7), determination of organic cations and study of their catalytic properties", The Second Congress of Chemistry of Islamic Azad University, Science and Research Central Tehran, North Tehran Branches, Tehran, Iran (Nov, 22-23, 2000).
- 83) Mohammad Hassan Alizadeh, **Fatemeh. F. Bamoharram**, " Polymerization of benzyl alcohol by polyoxotungestates", " , 5th Iranian Seminar of Inorganic Chemistry, Isfahan University, Isfahan, Iran (1999).
- 84) Mohammad Hassan Alizadeh, **Fatemeh. F. Bamoharram**, Farshid Ahmadnia" Synthesis and characterization of new compounds: of Preyssler anion with formula of $(TAA)_{14-y}H_y [NaP_5W_{30}O_{110}]$ and $(TAA)_{6-x}H_x [P_2W_{18}O_{62}]$; TAA= $(C_nH_{2n+1})_4N$, x (n= 4, 6, 7, 8) and determination of their acidic protons", 5th Iranian Seminar of Inorganic Chemistry, Isfahan University, Isfahan, Iran (1999).

- **Books (In Persian)**

- 1) Majid M. Heravi, **Fatemeh F. Bamoharram**, Heteropolyacids as Highly Efficient and Green Catalysts Applied in Organic Transformations, Elsevier, (In Press), 1st Edition - January 21, 2022, Paperback ISBN: 9780323884419.
- 2) **Fatemeh F. Bamoharram**, Ali Ayati, Hamed Rashidi, Catalysts and Nano Catalysts of Heteropolyoxometalates, Islamic Azad University, Mashhad Branch, Mashhad, Iran, 2012.
- 3) Soniya S. Soluti, **Fatemeh F. Bamoharram**, Nanotechnology, From Theory to Application, Islamic Azad University of Mashhad, Mashhad, Iran, 2007.

- **Awards**

- 1) 4th Festival of Ferdowsi, Ferdowsi University of Mashhad, Mashhad, Iran, Selected Ph.D Thesis, 2003.
- 2) Sanati Isfahan University, Isfahan, Iran , Selected poster, 2005.
- 3) Islamic Azad University of Mashhad, Mashhad, Iran, Higher researcher, 2004.

- 4) Islamic Azad University of Mashhad, Mashhad, Iran, Higher assistant professor, 2006.
- 5) Islamic Azad University of Mashhad, Mashhad, Iran, Higher researcher in Faculty of Science, 2006.
- 6) Islamic Azad University of Mashhad, Mashhad, Iran, Higher researcher in 9 zone of Islamic Azad University, 2006.
- 7) Islamic Azad University of Mashhad, Mashhad, Iran, Scientific higher assistant professor, May 2007.
- 8) Islamic Azad University of Mashhad, Mashhad, Iran, Educational higher assistant professor, May 2007.
- 9) 4th Festival of Islamic Azad University, Iran, Higher researcher, June 2007.
- 10) 5th Festival of Islamic Azad University, Iran, Higher researcher, January 2010.
- 11) Festival of Islamic Azad University, Iran, Higher article, April 2011.
- 12) **ISI International Scientist.**
- 13) Winner of research gold medal in third Farhikhtegan Festival- Islamic Azad University, Higher researcher professor, Iran

- **Research Project leader:** More than 150

- **Activity in Scientific Societies**

- 1) Head of Nanobiotechnology group and Lab , Kharazmi research Center, Mashhad Branch, Islamic Azad University, Mashhad, Iran.
- 2) Head of Environment Management Department, Baktash Development Strategy Consultants, Mashhad, Iran
- 3) Member of editorial board of international journal of catalysis entitled "The Open Catalysis Journal".
- 4) Member of editorial board of international Nanotechnology journal entitled "Journal of Nanostructure in Chemistry".
- 5) Member of American Nanotechnology Society.
- 6) Chair of two Nanotechnology conferences in 2006 and 2011.
- 7) Member of Iranian Engineering and Chemistry Society.