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FATEMEH FARJADIAN (ASSOCIATE PROFESSOR)

DATE OF BIRTH	22/01/1981	
MARITAL STATUS	Married with 2 children	
EDUCATION	Ph.D. in Polymer Chemistry Department of Chemistry, Shiraz University, Shiraz, Iran, Advisor: Professor Bahman Tamami, Dissertation Title: “ <i>Synthesis, characterization and application of polymer-grafted silica containing palladium nanoparticles as new heterogeneous catalysts for C-C Cross-coupling reactions</i> ” & “ <i>Synthesis, characterization and catalytic activity of phosphinite-functionalized silica containing palladium nanoparticles for C-C cross-coupling reactions</i> ”	2007-2012
	MSc in Organic Chemistry Department of Chemistry, Institute for Advanced Studies in Basic Sciences, Zanjan, Iran, Advisor: Professor Babak Kaboudin, Thesis Title: “ <i>Novel synthetic methods for thiophosphates and acyl thiophosphates and studies on the nucleophilic properties of ammonium O,O'-diethyl phosphorothioate</i> ”	2004-2006
	BSc in Pure Chemistry Department of Chemistry, College of Sciences, Yasuj University, Yasuj, Iran.	1999-2004
VISITS	Visiting Scholar The Nanoscience Center, The University of Cambridge, Invited by Prof. Sir Mark E. Welland	September/2017
	Visiting PhD Student Lehrstuhl für Technische Chemie II, Universität Duisburg-Essen, Essen, Germany, Advisor: Professor Mathias Ulbricht, Project subject: “Modification of polymeric membrane via (ATRP and UV-initiation).”	2011-2012
JOB EXPERIENCES	Research Faculty 2015 till now Assistant professor Pharmaceutical Science Research Center, Shiraz University of Medical Sciences, Shiraz 71345, Iran	
	Research Faculty 2012-2015 Assistant Professor Center for Nanotechnology in Drug Delivery, Shiraz University of Medical Sciences, Shiraz 71345, Iran	
	Research Assistant 2006-2013 Department of Chemistry, Shiraz university, Shiraz, Iran	

Teaching Experiences

Department of Chemistry, **2019**
College of Sciences, Shiraz University of Medical Sciences.

-General Chemistry

Department of Pharmaceutics, **2015 till now**
School of Pharmacy, Shiraz university of Medical Sciences.
-Polymer Chemistry of Pharmaceutics

Department of Chemistry, **2006-2007**
Islamic Azad university, Marvdasht branch, Marvdasht-Iran
-General chemistry and laboratory course
- Organic chemistry (I)

Department of Chemistry, **2007-2013**
Islamic Azad university, Shiraz branch, Shiraz- Iran
-Introduction to polymer chemistry
-Organic chemistry (I, II)
-Laboratory courses (polymer chemistry, organic chemistry)

Department of Chemistry, **2007-2013**
Shiraz University, Shiraz-Iran
-Laboratory courses (organic chemistry (I), general chemistry, separation and characterization of organic compounds)

Technical Staff **2003**
GRP Pipe Factory-Farasan, Dalin, Shiraz, Iran

RESEARCH INTEREST	- Polymer synthesis and modification via ATRP, RAFT, UV-irradiation - Silica and mesoporous silica synthesis and modification - Modification of bio-based materials - Nanoparticle Synthesis - Drug & gene delivery, design of antidote agents, and protein fibrillation
SKILLS	- Spectroscopy techniques: Nuclear Magnetic Resonance, Ultraviolet and Visible light, Florescence, Fourier Transform-Infra Red, Light scattering, Atomic absorption (AAS) and Inductively Coupled Plasma (ICP), X-ray Diffraction, Energy Dispersive X-ray Diffraction. - Microscopy techniques: Transmission and Scanning electron microscopy (SEM & TEM), Atomic Force Microscopy (AFM), Confocal Laser Scanning (CLSM) - Macroscopic testing: Thermogravimetric analysis (TGA), Differential Scanning Calorimetry (DSC) - Chromatography techniques: Gas Chromatography (GC), Gel Permeation Chromatography (GPC), High-Performance Liquid Chromatography (HPLC), and Gel electrophoresis. - Other material characterization techniques: N₂ adsorption/desorption, Elemental analysis, Zeta potential. - In vitro analysis: MTT assay - Imaging techniques: Magnetic Resonance Imaging (MRI) and Fluorescence Imaging (FI)
MANAGERIAL POSITION	- Head of Students Research Committee, School of Pharmacy, Shiraz University of Medical Sciences (2018-2021).
MAIN SUPERVISOR	- 47 Research projects, 2 Postdoc researchers, 12 Pharm.D. students, 7 MSc. students, 6 Ph.D. students

EDITORIAL AND REVIEWING EXPERIENCES	- Guest editor of special issue entitled “Stimuli responsive hydrogel for therapeutic applications” in <i>Frontiers in Chemistry</i>. 2023 - Review Editor in <i>Nanoscience</i>, <i>Frontiers in Chemistry</i>, 2022. - Review Papers for Journals of recognized Publishers (<i>i.e.</i>, American Chemical Society, Elsevier, Springer-Nature, Wiley)
APPEARANCE IN MEDIA	- Intelligentization of high-risk anti-cancer drugs by Shirazi researchers, 13th March, 2018 (https://akharinkhabar.ir/local/4117076) - Cancer cells treatment with magnetic nanoparticles, top news of several media in Iran, 15th May 2017 (<i>i.e.</i>, https://sinapress.ir/news/58155/) - Introduced by UNESCO COURIER as young Scientist, Chemistry and life; The UNESCO courier; Vol.:Jan.-Mar. 2011; Page 42.
RECOGNITION	Introduced by Stanford scientists to be among the World’s Top 2% Scientists list.
SOME HONORS & AWARDS	1- The Award of Outstanding Researcher of Shiraz University of Medical Sciences, Shiraz University of Medical Sciences, Iran, 2021 and 2015. 2- High Impact Factor Paper award, Shiraz University of Medical Sciences, Iran, 2020 and 2019. 3- The Award of Outstanding Researcher in Receiving Internal Grant, Shiraz University of Medical Science, Iran, 2019. 4- Best oral prize, 10th International Conference in Polymer Science, Tehran, Iran, 2012. 5- Travel award, European Membrane Society, EUROMEMBRANE 2012 conference, London, England. 5-Scholarship for six months sabbatical leave, Iranian Ministry of Sciences, for Duisburg-Essen University, Germany 2011. 6- Initiative Ph.D. thesis prize, Iranian Nano Technology, 2010.
PUBLICATIONS *CORRESPONDING AUTHOR	1. R. Heidari, Z. Sepahi, S. Mohammadi-Samani, L. Tayebi, N. Azarpira, M. Doroudian, F. Farjadian*, “Mesoporous silica application as an antidote of methotrexate and evaluation of the long-term oral administration; <i>in vitro</i> and <i>in vivo</i> study”, <i>Journal of Materials Research</i>, 2023. https://link.springer.com/article/10.1557/s43578-023-01003-y 2. R. Heidari, H.M. Mohammadi, F. Goudarzi, F. Farjadian*, “Repurposing of sevelamer as a novel antidote against aluminum phosphide poisoning; an <i>in vivo</i> evaluation”, <i>Heliyon</i>, 2023, 9, e15324. https://www.sciencedirect.com/science/article/pii/S2405844023025318 3. K. Zarkesh, R. Heidari, P. Iranpour, N. Azarpira, F. Ahmadi, S. Mohammadi-Samani*, F. Farjadian*, “Theranostic hyaluronan coated EDTA modified magnetic mesoporous silica nanoparticles for targeted delivery of cisplatin”, <i>Journal of Drug delivery Science and Technology</i>, 2022, 77, 103903. https://www.sciencedirect.com/science/article/abs/pii/S1773224722008140 4. M. Akbarian*, M. Bahmani, S-H Chen, R. Yousefi, S. Mohammadi-Samani, L. Tayebi, F. Panahi, F. Farjadian*, “Mechanisms behind the fibrillation and toxicity of insulin fibrils on neuron cells by engineered curcumin analogs”, <i>ACS Chemical Neuroscience</i>, 2022, 13, 17, 2613-2631. https://pubs.acs.org/doi/full/10.1021/acscchemneuro.2c00209 5. A. Soltani, M. Faramarzi*, F. Farjadian, S.A.M. Parsa, H.A. Panahi, “pH-responsive glycodendrimer as a new active targeting agent for doxorubicin delivery”, <i>International Journal of Biological Macromolecules</i>, 2022, 221, 508-522. https://www.sciencedirect.com/science/article/abs/pii/S0141813022019596

6. S. Ghasemi*, L. Ahmadi, **F. Farjadian***, “*Thermo-responsive PNIPAAm-b-PLA amphiphilic block copolymer micelle as nanoplatfrom for docetaxel drug release*”, Journal of Materials Science, **2022**, 57, 17453-17447.
<https://link.springer.com/article/10.1007/s10853-022-07711-w#citeas>
7. M. Akbarian*, S.-H. Chen, M. Kianpour, **F. Farjadian**, L. Tayebi, V.N. Uversky*, “*A review on biofilms and the currently available antibiofilm approaches: matrix-destabilizing hydrolases and anti-bacterial peptides as promising candidates for the food industries*”, International Journal of Biological Macromolecules, **2022**, 219, 1163-1179.
<https://www.sciencedirect.com/science/article/pii/S014181302201902X>
8. M. Behzadnia, M. Salmanpour, M. Heidari, M. Monajati, **F. Farjadian**, M. Abedi, A.M. Tamaddon*, “*Sorafenib tosylate incorporation into mesoporous starch xerogel for in-situ micronization and oral bioavailability enhancement*”, Drug Development and Industrial Pharmacy, **2022**, 48 (8), 343-354.
<https://www.tandfonline.com/doi/abs/10.1080/03639045.2022.2113405>
9. **F. Farjadian***, M. Moghadam, M. Monfared, S. Mohammadi-Samani*, “*Mesoporous silica nanostructure modified with azo gatekeepers for colon targeted delivery of 5-fluorouracil*”, AIChE Journal, **2022**, 68(12), e17900.
<https://aiche.onlinelibrary.wiley.com/doi/abs/10.1002/aic.17900>
10. **F. Farjadian***, S. Ghasemi*, M. Akbarian, M. Hosseini Ghahfarokhi, M. Moghoofei, M. Doroudian*, “*Physically stimulus responsive nanoparticles for therapy and diagnosis*”, Frontiers in Chemistry, **2022**, 10.
<https://www.frontiersin.org/articles/10.3389/fchem.2022.952675/full>
11. F. Hejabi, M. Sadegh Abbaszadeh, S. Taji, A. O’Neill, **F. Farjadian**, M. Doroudian*, “*Nanocarriers: a novel strategy for the delivery of CRISPR/Cas systems*”, Frontiers in Chemistry, **2022**, 10.
<https://www.frontiersin.org/articles/10.3389/fchem.2022.957572/full>
12. M. Bahmani, M. Akbarian, L. Tayebi, **F. Farjadian***, “*The inhibitory effect of curcumin loaded poly (vinyl caprolactam) nanohydrogel on insulin fibrillation*”, Process Biochemistry, **2022**, 117, 209-218.
<https://www.sciencedirect.com/science/article/abs/pii/S1359511322001258>
13. M. Akbarian, M. Gholinejad, S. Mohammadi-Samani*, **F. Farjadian***, “*Theranostic mesoporous silica nanoparticles made of multi-nuclear gold or carbon quantum dots particles serving as pH responsive drug delivery system*”, Journal of Microporous and Mesoporous Materials, **2022**, 329, 111512.
<https://www.sciencedirect.com/science/article/abs/pii/S1387181121006387>
14. **F. Farjadian***, A. Behzad-Behbahani*, S. Mohammadi-Samani, S. Ghasemi, “*In vitro DNA plasmid condensation and transfection via pH-responsive nanohydrogel*”, Progress in Biomaterials, **2022**, 11, 219–227.
<https://link.springer.com/article/10.1007/s40204-022-00187-6>
15. S. Ghasemi*, M. Owrang, F. Javaheri and **Fatemeh Farjadian***, “*Spermine modified PNIPAAm nano-hydrogel serving as thermo-responsive system for delivery of cisplatin*”, Journal of Macromolecular Research, **2022**, 30, 314–324.

<https://link.springer.com/article/10.1007/s13233-022-0035-7>

16. K. Zarkesh, E. Entezar-Almahdi, P. Ghasemiyeh, M. Akbarian, M. Bahmani, S. Roudaki, R. Fazlinejad, S. Mohammadi-Samani*, N. Firouzabadi*, M. Hosseini*, **F. Farjadian***, “*Drug-based therapeutic strategies for COVID-19 infected patients and their challenges*”, *Future Microbiology*, **2021**, 16(18), 1415-1451.
<https://www.futuremedicine.com/doi/full/10.2217/fmb-2021-0116>
17. E. Entezar-Almahdi, R. Heidari, S. Ghasemi, S. Mohammadi-Samani*, **F. Farjadian***, “*Integrin receptor mediated pH-responsive nano-hydrogel based on histidine-modified poly (aminoethyl methacrylamide) as targeted cisplatin delivery system*”, *Journal of Drug Delivery Science and Technology*, **2021**, 62, 102402.
<https://www.sciencedirect.com/science/article/abs/pii/S1773224721000824>
18. J. Farzanfar, **F. Farjadian***, A. Roointan, S. Mohammadi-Samani* and L. Tayebi, “*Assessment of pH responsive delivery of methotrexate based on PHEMA-st-PEG-DA nanohydrogels*”, *Macromolecular Research*, **2021**, 29(1), 54-61.
<https://link.springer.com/article/10.1007/s13233-021-9007-6>
19. A. Mohammad Sadeghi, **F. Farjadian**, S. Alipour*, “*Sustained release of linezolid in ocular insert based on lipophilic modified structure of sodium alginate*”, *Iranian Journal of Basic Medical Sciences*, **2021**, 24, 331-340.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8087856/>
20. M. Akbarian*, R. Yousefi , **F. Farjadian**, V.N. Uversky*, “*Insulin fibrillation: toward strategies for attenuating the process*”, *Chemical Communication*, **2020**, 56(77), 11354-11373.
<https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc05171c/unauth>
21. M. Akbarian, E. Rezaie*, **F. Farjadian**, Z. Bazzyar, M. Hosseini-Sarvari, E.M. Ara, S.A. Mirhosseini, J. Amani, “*Inhibitory effect of coumarin and its analogs on insulin fibrillation/cytotoxicity is depend on oligomerization states of the protein*”, *Rsc Advances*, **2020**, 10, 38260-38274.
<https://pubs.rsc.org/en/content/articlehtml/2020/ra/d0ra07710k>
22. N. Seyyedi, **F. Farjadian**, A. Farhadi, G.R. Dehbidi, R. Ranjbaran, F. Zare, M.A. Okhovat, N. Nikouyan, A. Behzad-Behbahani*, “*High yield gold nanoparticle-based DNA isolation method for human papillomaviruses genotypes from cervical cancer tissue samples*”, *IET Nanobiotechnology*, **2020**, 14, 555-562.
<https://pubmed.ncbi.nlm.nih.gov/33010130/>
23. H. Mohammadi, R. Heidari, S. V. Niknezhad, A. Jamshidzadeh* and **F. Farjadian***, “*In vitro and in vivo evaluation of succinic acid-substituted mesoporous silica for ammonia adsorption: potential application in the management of hepatic encephalopathy*”, *International Journal of Nanomedicine*, **2020**, 15, 10085-10098.
<https://www.dovepress.com/in-vitro-and-in-vivo-evaluation-of-succinic-acid-substituted-mesoporous-peer-reviewed-article-IJN>
24. M Hoseini-Ghahfarokhi, S. Mirkiani, N. Mozaffari, M. A. Abdolahi Sadatlu, A. Ghasemi, S.

- Abbaspour, M. Akbarian, **F. Farjadian*** and M. Karimi*, “Applications of graphene and graphene oxide in smart drug/gene delivery: is the world still flat?” *International Journal of Nanomedicine*, **2020**, 15, 9469-9496.
<https://www.dovepress.com/applications-of-graphene-and-graphene-oxide-in-smart-druggene-delivery-peer-reviewed-fulltext-article-IJN#>
25. S. Ahmadi, N. Rabiee, M. Bagherzadeh, F. Elmi, Y. Fatahi, **F. Farjadian**, N. Baheiraei, B. Nasser, M. Rabiee, N. Tavakoli Dastjerd, A. Valibeik, M. Karimi* and M. R Hamblin*, “*Stimulus-responsive sequential release systems for drug and gene delivery*”, *Nano Today*, **2020**, 34, 100914.
<https://www.sciencedirect.com/science/article/abs/pii/S1748013220300839>
 26. E. Entezar-Al-Mahdi, S. Mohammadi-Samani, L. Tayebi and **F. Farjadian***, “Recent advances in designing 5-fluorouracil delivery systems: a stepping stone in the safe treatment of colorectal cancer”, *International Journal of Nanomedicine*, **2020**, 15, 5445-5458.
<https://www.dovepress.com/recent-advances-in-designing-5-fluorouracil-delivery-systems-a-steppin-peer-reviewed-article-IJN>
 27. **F. Farjadian***, S. Abbaspour, M. A. Abdolahi Sadatlu, S. Mirkianid, A. Ghasemi, M. Hoseini-Ghahfarokhif, N. Mozaffari, M. Karimi* and M.R. Hamblin*, “Recent developments in graphene and graphene oxide: properties, synthesis, and modifications: A Review”, *ChemistrySelect*, **2020**, 5(33), 10200-10219.
<https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.202002501>
 28. **F. Farjadian***, A. R. Akbarizadeh, L. Tayebi, “Synthesis of novel reducing agent for formation of metronidazole-capped silver nanoparticle and evaluating antibacterial efficiency in gram-positive and gram-negative bacteria” *Heliyon*, **2020**, 6(8), e04747.
<https://www.sciencedirect.com/science/article/pii/S2405844020315905>
 29. A. H. Haghighi, M. T. Khorasani*, Z. Faghih and **F. Farjadian**, “Effects of different quantities of antibody conjugated with magnetic nanoparticles on cell separation efficiency”, *Heliyon*, **2020**, 6, 4, e03677.
<https://www.sciencedirect.com/science/article/pii/S2405844020305223>
 30. M. Abedanzadeh, M. Salmanpour, **F. Farjadian**, S. Mohammadi and A.M. Tamaddon*, “Curcumin loaded polymeric micelles of variable hydrophobic lengths by RAFT polymerization: preparation and in-vitro characterization”, *Journal of Drug Delivery Science and Technology*, **2020**, 58, 101793.
<https://www.sciencedirect.com/science/article/abs/pii/S1773224720302562>
 31. M. Abedi, S.S. Abolmaali, M. Abedanzadeh, **F. Farjadian**, S. Mohammadi-Samani and A.M. Tamaddon*, “Core-shell imidazoline-functionalized mesoporous silica superparamagnetic hybrid nanoparticles as a potential theranostic agent for controlled delivery of platinum (II) compound”, *International Journal of Nanomedicine*, **2020**, 15, 2617-2631.
<https://www.dovepress.com/corendashshell-imidazolinendashfunctionalized-mesoporous-silicanbbsp-peer-reviewed-fulltext-article-IJN>
 32. M. Akbarian, L. Tayebi, S. Mohammadi-Samani and **F. Farjadian***, “Mechanistic assessment of functionalized mesoporous silica-mediated insulin fibrillation”, *The Journal of Physical Chemistry B*, **2020**, 124, 9, 1637-1652.

<https://pubs.acs.org/doi/abs/10.1021/acs.jpcc.9b10980>

33. **F. Farjadian**, S. Ghasemi*, Z. Andami and B. Tamami, “*Thermo-responsive nanocarrier based on poly (N-isopropylacrylamide) serving as a smart doxorubicin delivery system*”, Iranian Polymer Journal, **2020**, 29, 197-207.
<https://link.springer.com/article/10.1007/s13726-020-00785-w>
34. N. Mozafari, **F. Farjadian**, S. Mohammadi-Samani, S. Azadi and A. Azadi*, “*Simvastatin-chitosan-citicoline conjugates nanoparticles as the co-delivery system in Alzheimer susceptible patients*”, International Journal of Biological Macromolecules, **2020**, 156, 1396-1407.
<https://www.sciencedirect.com/science/article/abs/pii/S0141813019383023>
35. A. H. Haghighi, Z. Faghih*, M. T. Khorasani and **F. Farjadian**, “*Antibody conjugated onto surface modified magnetic nanoparticles for separation of HER2+ breast cancer cells*”, Journal of Magnetism and Magnetic Materials, **2019**, 490, 165479.
<https://www.sciencedirect.com/science/article/abs/pii/S0304885319302008>
36. E. Rafiee Taqanaki, R. Heidari, M. Monfared, L. Tayebi, A. Azadi* and **F. Farjadian***, “*EDTA-modified mesoporous silica as supra adsorbent of copper ions with novel approach as an antidote agent in copper toxicity*”, International Journal of Nanomedicine, **2019**, 14, 7781-7792.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6769164/>
37. **F. Farjadian***, S. Rezaeifard, M. Naeimi, S. Ghasemi, S. Mohammadi-Samani, M. E. Welland and L. Tayebi*, “*Temperature and pH-responsive nano-hydrogel drug delivery system based on lysine-modified poly (vinylcaprolactam)*”, International Journal of Nanomedicine, **2019**, 14, 6901-6915.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6730641/>
38. N. Mozafari, S. Azadi, S. Mohammadi Samani, **F. Farjadian** and A. Azadi*, “*Concurrent analysis of simvastatin and citicoline using a reversed-phase high Performance liquid chromatography-ultra violet method*”, Trends in Pharmaceutical Sciences, **2019**, 5, 41-46.
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39. **F. Farjadian***, A. Roointan, S. Mohammadi-Samani and M. Hosseini*, “*Mesoporous silica nanoparticles: Synthesis, pharmaceutical applications, biodistribution, and biosafety assessment*” Chemical Engineering Journal, **2019**, 359, 684-705.
<https://www.sciencedirect.com/science/article/pii/S138589471832391X>
40. **F. Farjadian**, A. Ghasemi, O. Gohari, A. Roointan, M. Karimi* and M. R. Hamblin*, “*Nanopharmaceuticals and nanomedicines currently on the market: challenges and opportunities*”, Nanomedicine, **2019**, 14 (1), 93-126.
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41. A. Roointan, J. Farzanfar, S. Mohammadi-Samani, A. Behzad-Behbahani and **F. Farjadian***, “*Smart pH responsive drug delivery system based on poly (HEMA-co-DMAEMA) nanohydrogel*”, **2018**, 552, 301-311.
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42. **F. Farjadian**, M. Moghoofoei, S. Mirkiani, A. Ghasemi, N. Rabiee, S. Hadifar, A. Beyzavi, M. Karimi*, and M. R. Hamblin*, “*Bacterial components as naturally inspired nano-carriers for drug/gene delivery and immunization: Set the bugs to work?*”, *Biotechnology Advances*, **2018**, 36, 968-985.
<https://www.sciencedirect.com/science/article/pii/S0734975018300387>
43. **F. Farjadian***, S. Azadi, S. Mohamamdi-Samani, H. Ashrafi and A. Azadi*, “*A novel approach to the application of hexagonal mesoporous silica in solid-phase extraction of drugs*” **2018**, 4, e00930.
<https://www.sciencedirect.com/science/article/pii/S2405844018355488>
44. **F. Farjadian***, S. Moradi and M. Hoseini*, “*Thin chitosan films containing super-paramagnetic nanoparticles with contrasting capability in magnetic resonance imaging*”, *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 47.
<http://link.springer.com/article/10.1007%2Fs10856-017-5854-2>
45. **F. Farjadian***, S. Ghasemi, R. Heidari and S. Mohammadi Samani*, “*In vitro and in vivo assessment of EDTA-modified silica nano-spheres with supreme capacity of iron capture as a novel antidote agent*” *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 745-753.
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46. **F. Farjadian***, S. Ghasemi and S. Mohammadi Samani*, “*Hydroxyl-modified magnetite nanoparticles as novel carriers for drug delivery*”, *International Journal of Pharmaceutics*, **2016**, 504, 110-116.
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48. S. Ghasemi*, **F. Farjadian*** and B. Tamami “*Biaryl fomatation via Suzuki and Stille coupling reactions using palladium nanoparticle/polymeric N-Heterocyclic carbene grafted silica as recyclable efficient catalyst*”; *Applied Journal of Organometallic Chemistry*, **2016**, 30, 818-822.
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50. **F. Farjadian**, S. Schwark, and M. Ulbricht*, “*Novel functionalization of porous polypropylene microfiltration membranes: Via Grafted poly(aminoethyl methacrylate) anchored Schiff base toward membrane adsorbers for metal ions*”; *Polymer Chemistry*, **2015**, 6, 1584-1593
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51. **F. Farjadian***, P. Ahmadpour, S. Mohammadi Samani* and Majid Hoseini* “*Controlled size synthesis and application of nanosphere MCM-41 as potent adsorber of drugs: a novel approach to new*

- antidote agent for intoxication*" Microporous and Mesoporous Materials, **2015**, 213, 30-39.
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52. **Farjadian*** and B. Tamami*, "Poly(vinylpyridine)-grafted silica containing palladium or nickel nanoparticles as new heterogeneous catalysts for Sonogashira coupling reaction", CHEMPLUSCHEM, **2014**, 79, 1767-1773.
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 53. B. Tamami*, **F. Farjadian**, S. Ghasemi, H. Allahyari and M. Mirzadeh, "Palladium nanoparticles supported on poly (N-vinylpyrrolidone)-grafted silica as an efficient catalyst for copper-free Sonogashira and Suzuki cross-coupling reactions" Brazilian Chemical Society, **2015**, 26, 1591-1598.
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 55. B. Tamami*, **F. Farjadian**, S. Ghasemi, and H. Allahyari, "Synthesis and applications of polymeric N-heterocyclic carbene palladium complex-grafted silica as a novel recyclable nano catalyst for Heck and Sonogashira coupling reactions"; New Journal of Chemistry, **2013**, 743, 2011-2018.
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