

CURRICULUM VITAE

Maryam Yousefi, PhD

Date of Birth: April 8, 1981

Gender: Female

Relationship status: Married, One child

Nationality: Iranian

Residency status: Permanent resident of Iran

Email: m.yousefi@avicenna.ac.ir and yousefi1360@yahoo.com

Telephone (work):982122432020-ext: 109

Fax: +982122432021

Telephone (cell phone)+989359716681

Education:

2007-2011 PhD, Organic chemistry, Department of Pure Chemistry,

Shahid Beheshti University, Tehran, Iran

2003-2005 M.Sc., Organic chemistry, Department of Pure Chemistry,

Shahid Beheshti University, Tehran, Iran

1991-2003 B.Sc., Pure Chemistry, Department of

Chemistry, Azzahra University, Tehran, Iran

Research Interests:

- Biotransformation and biocatalysis
- Application of enzymes in organic synthesis
- Immobilization of enzymes
- Enzymatic production of biodiesel
- Extraction and structure elucidation of natural products from plants
- Organic synthesis
- Nanobiotechnology
- High performance liquid chromatography

PUBLICATIONS:

Journal Papers:

1. Mehdi Mohammadi, Mansour Shahedi, Faezeh Ahrari, Mostafa Mostafavi, Zohreh Habibi, and **Maryam Yousefi***. Isocyanide-based multi-component reactions for carrier-free and carrier-bound covalent immobilization of enzymes. *Nature Protocols*, 2023, accepted for publication.
2. Mostafa Mostafavi, Kazem Mahmoodzadeh , Zohreh Habibi , **Maryam Yousefi***, Jespe Brask , Mehdi Mohammadi . Immobilization of *Bacillus amyloliquefaciens* protease "Neutrase" as hybrid enzyme inorganic nanoflower particles: A new biocatalyst for aldol-type and multicomponent reactions. *International Journal of Biological Macromolecules*. 2023, 230, 123140.
3. Faezeh Ahrari, **Maryam Yousefi**, Zohreh Habibi, Mehdi Mohammadi. Cross-linked lipase particles with improved activity; application of a non-toxic linker for cross-linking. *LWT - Food Science and Technology*, 2023, 173, 114371.
4. Mansour Shahedi, Rojina Shahani, Zohreh Habibi, **Maryam Yousefi***, Jesper Brask, Arash Minai-Tehrani, Fatemeh Yazdi Samadi and Mehdi Mohammadi. Diarylation of thiazolo pyrimidins by laccase and their in vitro evaluation as antitumor agents. *Scientific reports*, 2022, 12:22326-22338.
5. Hossein Bavandi, Mansour Shahedi, Zohreh Habibi, **Maryam Yousefi***, Jesper Brask and Mehdi Mohammadi. Biocatalytic decarboxylative Michael addition for synthesis of 1,4-benzoxazinone derivatives. *Scientific Reports*, 2022, 12, 12713-12722.
6. Yalda Amini, Mansour Shahedi, Zohreh Habibi, **Maryam Yousefi**, Mehdi Mohammadi. A multi-component reaction for covalent immobilization of lipases on amine-functionalized magnetic nanoparticles: production of biodiesel from waste cooking oil. *Bioresource and Bioprocess*. 2022, 9, 60.
7. Faezeh Ahrari, **Maryam Yousefi**, Zohreh Habibi, Mehdi Mohammadi, Application of undecanedicarboxylic acid to prepare cross-linked enzymes (CLEs) of *Rhizomucor miehei* lipase (RML); Selective enrichment of polyunsaturated fatty acids, *Molecular Catalysis*, 2022, 520, 112172.
8. Mohamad Reza Safarpour Moguei, Zohreh Habibi, Mansour Shahedi , **Maryam Yousefi***, Abouzar Alimoradi, Sepideh Mobini, Mehdi Mohammadi. Immobilization of *Thermomyces lanuginosus* lipase through isocyanide-based multi component reaction on multi-walled carbon nanotube: application for kinetic

- resolution of rac-ibuprofen. *Biotechnology Reports*, 2022, 35, e00759.
9. Mansour Shahedi, Zohreh Habibi, **Maryam Yousefi***, Jesper Brask, Mehdi Mohammadi Improvement of biodiesel production from palm oil by co-immobilization of *Thermomyces lanuginosa* lipase and *Candida antarctica* Lipase B: Optimization using response surface methodology. *International Journal of Biological Macromolecules*, 2021, 170, 490-502.
 10. Maryam Ashjari , Maryam Garmroodi , Faezeh Ahrari, Maryam Yousefi,* , Mehdi Mohammadi, Soluble enzyme cross-linking via multi-component reactions; a new generation of cross-linked enzymes. *Chemical Communications*, 2020, 56, 9683-9686.
 11. Saba Ghasemi, **Maryam Yousefi**, Ahmad Nikseresht, Hoda Omid. Covalent binding and in-situ immobilization of lipases on a flexible nanoporous material. *Process Biochemistry*, 2021, 102, 92-101.
 12. Hossein Bavandi, Zohreh Habibi, **Maryam Yousefi***, Porcine pancreas lipase as a green catalyst for synthesis of bis-4-hydroxy coumarins. *Bioorganic Chemistry*, 2020, 103,104139-104145.
 13. ElaheMemari,AmirMaghsoudi,FatemehYazdian,**MaryamYousefi**,MehdiMohammadi. Synthesis of PHB-co-PEI nanoparticles as gene carriers for miR-128-encoding plasmid delivery to U87 glioblastoma cells. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 2020, 599, 124898.
 14. **Maryam Yousefi**, Marzia Marciello, Jose Manuel Guisan, Gloria Fernandez-Lorente, Mehdi Mohammadi and Marco Filice. Fine Modulation of the Catalytic Properties of Rhizomucor miehei Lipase Driven by Different Immobilization Strategies for the Selective Hydrolysis of Fish Oil. *Molecules*, 2020, 25, 545.
 15. Maryam Ashjari, Maryam Garmroodi, Fatemeh Amiri Asl, Mahsa Emampour, **Maryam Yousefi**, Mitra Pourmohammadi Lish, Zohreh Habibi, Mehdi Mohammadi. Application of multi-component reaction for covalent immobilization of two lipases on aldehyde-functionalized magnetic nanoparticles; production of biodiesel from waste cooking oil. *Process Biochemistry*. 2020, 90, 156-167.
 16. Mir Salar Kazemi, Zohreh Mohammadi, Mohsen Amini, **Maryam Yousefi**, Parastoo Tarighi, Samane Eftekhari, Morteza Rafiee Tehrani. Thiolated chitosan-lauric acid as a new chitosan derivative: Synthesis, characterization and cytotoxicity *International Journal of Biological Macromolecules* , 2019, 136, 823-830.

17. Mansour Shahedi, **Maryam Yousefi***, Zohreh Habibi, Mehdi Mohammadi, Mohammad Ali As'habi. Co-immobilization of *Rhizomucor miehei* lipase and *Candida antarctica* Lipase B and Optimization of biocatalytic biodiesel production from palm oil using response surface methodology. *Renewable Energy*. 2019,141, 847-857.
18. Fereshteh Mohammadi, **Maryam Yousefi**, Ramin Ghahremanzadeh. Green synthesis, characterization, and antimicrobial activity of silver nanoparticles (Ag NPs) using leaves and stems extract of some plants. *Advanced Journal of Chemistry-Section A*. 2019; 2(4): 266-275. .
19. Mehdi Mohammadi, Mohammad Ali As'habi, Peyman Salehi, **Maryam Yousefi**, Mahboobeh Nazari, Jesper Brask. Immobilization of laccase on epoxy-functionalized silica and its application in biodegradation of phenolic compounds. *International Journal of Biological Macromolecules*. 2018, 109, 443-447.
20. Fatemeh Salami, Zohreh Habibi, **Maryam Yousefi***, Mehdi Mohammadi. Covalent immobilization of laccase by one pot three component reaction and its application in the decolorization of textile dyes. *International Journal of Biological Macromolecules*. 2018, 120, 144-151.
21. Ramin Ghahremanzadeh, Fatemeh Yazdi Samadi, **Maryam Yousefi***. Green Synthesis of gold nanoparticles using three medicinal plant extracts as efficient reducing agents. *Iranian Journal of Chemistry and Chemical Engineering*. 2019, 38, 1- 10.
22. Mehdi Mohammadi, Somayeh Gandomkar, Zohreh Habibi, **Maryam Yousefi** A novel approach for bioconjugation of *Rhizomucor miehei* lipase (RML) onto amine-functionalized supports; Application for enantioselective resolution of rac-ibuprofen. *International Journal of Biological Macromolecules* 2018, 117, 523-531.
23. Mohammad-Reza Nejadmoghaddam, Amir Hassan Zarnani, Ramin Ghahremanzadeh, Roya Ghods, Jafar Mahmoudian, **Maryam Yousefi**, Mahbobeh Nazari, Mohammad Hossein Ghahremani, Maryam Abolhasani, Ali Anissian, Morteza Mahmoudi, and Rassoul Dinarvand. Placenta-specific1 (PLAC1) is a potential target for antibody-drug conjugate-based prostate cancer immunotherapy. *Scientific Reports* 2017, 17;7(1):13373.

24. Saba Ghasemi, Zohreh Habibi, Maryam Mohajeri,, **Maryam Yousefi**. Biotransformation of two furanocoumarins by fungal species *Aspergillus* sp. PTCC 5266 and *Aspergillus niger* PTCC 5010. *Natural Product Research*.
25. Mahboobeh Nazari, Amir-hassan Zarnani, Roya Ghods, Rahman Emamzadeh, Somayeh Najafzadeh, Arash Minai-Tehrani, Jafar Mahmoudian, **Maryam Yousefi**, Sedigheh Vafaei, Sam Massahi, Mohammad-Reza Nejadmoghaddam. Optimized protocol for soluble prokaryotic expression, purification and structural analysis of human placenta specific-1(PLAC1). *Protein Expression and Purification*, 2017, 133, 139-151.
26. Mohadese Babaki , **Maryam Yousefi***, Zohreh Habibi , Mehdi Mohammadi, Process optimization design for biodiesel production from waste cooking oil using multi- enzyme systems through response surface methodology. *Renewable Energy*. 2017, 105, 465-472.
27. Mehdi Mohammadi, Maryam Ashjari, Maryam Garmroodi,, **Maryam Yousefi**, Ali Asghar Karkhaneh. The use of isocyanide-based multicomponent reaction for covalent immobilization of *Rhizomucor miehei* lipase on multiwall carbon nanotubes and graphene nanosheets. *RSC Advances*. 2016, 6, 72275-72285.
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30. Maryam Garmroodi, Mehdi Mohammadi, Ali Ramazani, Maryam Ashjari, Javad Mohammadi, Behrouz Sabour, **Maryam Yousefi**. Covalent binding of hyper-activated *Rhizomucor miehei* lipase on hetero-functionalized siliceous supports, *International Journal of Biological Macromolecules*. 2016,86, 208-215.

31. Shima Ghaedizadeh, Rahman Emamzadeh, Mahboobeh Nazari, S. Mohamad Mahdi Rasa, Sayyed Hamid Zarkesh-Esfahani, **Maryam Yousefi**. Understanding the molecular behaviour of Renilla luciferase in imidazolium-based ionic liquids, a new model for the α/β fold collapse. *Biochemical Engineering Journal*. 2016, 105. 505-513.
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35. Mohadese Babaki, **Maryam Yousefi***, Zohreh Habibi, Jesper Brask, Mehdi Mohammadi. Preparation of highly reusable biocatalysts by immobilization of lipases on epoxy-functionalized silica for production of biodiesel from canola oil. *Biochemical engineering journal*, 2015, 101, 23-31.
36. Mehdi Mohammadi, Maryam Ashjari, Shaghayegh Dezvarei, **Maryam Yousefi**, Mohadese Babaki and Javad Mohammadi. Rapid and high-density covalent immobilization of *Rhizomucor miehei* lipase using a multi component reaction: application in biodiesel production. *RSC Advances*, 2015, 5, 32698.
37. Mehdi Mohammadi, Zohreh Habibi, Shaghayegh Dezvarei, **Maryam Yousefi**. Selective enrichment of polyunsaturated fatty acids by hydrolysis of fish oil using immobilized and stabilized *Rhizomucor miehei* lipase preparations. *Food and bioproduct processing*. 2015, 94, 414–421.
38. Zohreh Habibi, **Maryam Yousefi**, Rasool Kheyraadi, Mehdi Mohammadi, Mehdi Momeni, Saber Nazari. Lipase-catalysed addition of pyrrolidine to chalcone and

benzylidene malonate derivatives. *Chemistry of natural compounds* 2015, 51, 861-864.

39. Mehdi Mohammadi, Zohreh Habibi, **Maryam Yousefi**, Improvement of the stability and selectivity of *Rhizomucor miehei* lipase immobilized on silica nanoparticles: Selective hydrolysis of fish oil using immobilized preparations. *Process Biochemistry* 2014, 49, 1314-1323.
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42. Somayyeh Gandomkar, Zohreh Habibi, **Maryam Yousefi**, Sabrieh Ghasemi. A new abiatane diterpenoid from *Salvia xanthocheila* Boiss. *Natural Product Research*. 2013, 27, 266–269.
43. Zohreh Habibi, Shamimeh Ghanian, Sabrieh Ghasemi, **Maryam Yousefi**. Chemical composition and antibacterial activity of the volatile oil from seeds of *Artemisia annua* L. from Iran. *Natural Product Research*. 2013, 27 ,198-200
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45. Zohreh Habibi, **Maryam Yousefi**, Shamimeh Ghanian, Mehdi Mohammadi Sabrieh Ghasemi. Biotransformation of Progesterone by *Absidia griseolla* var. *igachii* and *Rhizomucor pusillus*. *Steroids*. 2012; 77, 1446-1449.
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47. Somayyeh Gandomkar, **Maryam Yousefi**, Zohreh Habibi and Mohammad Ali As'habi. A New Triterpene from *Salvia xanthocheila* Boiss. *Natural Product Research*. 2012, 26(7), 648–653.

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49. **Maryam Yousefi**, Somayyeh Gandomkar and Zohreh Habibi. Essential oil from aerial parts of of *Betonica grandiflora* Willd. from Iran. *Natural Product Research*. 2011, 26 (2) , pp. 146-151.
50. Mehdi mohammadi, **Maryam Yousefi**, Zohreh Habibi. Highly enantioselective bioreduction of prochiral ketones by stem and germinated plant of *Brassica oleracea variety italica* as a novel biocatalyst. *Biocatalysis and Biotransformation* 2011; 29(6): 328–336.
51. Rasool Eshaghi Najafabadi, Mehdi Mohammadi, **Maryam Yousefi**, Zohreh Habibi. Chemical Composition and Antibacterial Activity of Essential Oils from Flowers, Seeds and Stems of *Heracleum rechingeri* (Manden) from Iran. *Journal of Essential Oil Bearing Plants*. 2011, 14, 746 – 750.
52. **Maryam Yousefi**, Mehdi Mohammadi, Zohre Habibi. Disulfides in the volatile oil of *Ferula behboudiana* Rech. f. & Esfand. *Natural Product Research*. 2011, 25, 1629– 1634.
53. **Maryam Yousefi**, Mehdi Mohammadi, Zohreh Habibi, Zohreh Cheraghi. Biotransformation of nitrile by whole cells of *Aspergillus* sp. PTCC 5266. *Biocatalysis and Biotransformation* 2011, 29, 54-59.
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55. Mehdi Mohammadi, Zohreh Habibi, **Maryam Yousefi**. Essential oils from stem and leaves of *Angelica urumiensis* (Mozaffarian) from Iran. *Natural Product Research*. 24 (14), 1347–1351, 2010.
56. Mehdi Mohammadi, **Maryam Yousefi** , Zohreh Habibi, Somayeh Rahmati, Gholamreza Imanzadeh, Abbas Shafiee. Volatile constituents of *Salvia ceratophylla* L. and *Salvia indica* L. from Iran. *Journal of Essential Oil Bearing Plants*. 13, (6), 774 780, 2010.
57. Zohreh Habibi, **Maryam Yousefi** , Mehdi Mohammadi, Fereshteh Eftekhari , Tayebeh Biniyaz, Abdolhossein Rustaiyan. Chemical composition and antibacterial

- activity of the volatile oils from *Artemisia turcomanica* Gand. *Chemistry of Natural Compounds*. 46 (5), 819-821, 2010.
58. **Maryam Yousefi**, Mehdi Mohammadi, Zohre Habibi, Abbas Shafiee. New polysulfanes from aerial parts of *Ferula behboudiana* Rech. f. & Esfand. *Natural Product Research*. 24, (14), 1352-1357, 2010.
 59. Zohreh Habibi, Rasool Eshaghi, Mehdi Mohammadi, **Maryam Yousefi**. *Chemical Composition and Antibacterial Activity of Essential Oil of Heracleum rechingeri* Manden from Iran. *Natural Product Research*. 24(11), 1013-1017, 2010.
 60. **Maryam Yousefi**, Mehdi Mohammadi, Zohre Habibi, Abbas Shafiee. Biotransformation of Progesterone by *Acremonium chrysogenum* and *Absidia griseolla* var. *igachii*. *Biocatalysis and Biotransformation*. 2010, 28, 254–258.
 61. Mehdi Mohammadi, **Maryam Yousefi**, Zohre Habibi, Abbas Shafiee. Two new coumarins from the chloroform extract of *Angelica urumiensis* from Iran. *Chemical and pharmaceutical Bulletin*, 2010, 58, 546-548.
 62. Zohreh Habibi, **Maryam Yousefi**, Fatemeh Shahriari, Jabbar Khalafi and Mohammad Ali As'habi. Chemical composition of the essential oil of *Tanacetum turcomanicum* and *T. canescens* from Iran. *Chemistry of Natural Compound*. 45, (1), 93-95, 2009.
 63. Seyyed Mojtaba Taghizadeh, Hamid Mirzadeh, Mohammad Barikani, **Maryam Yousefi**, Miscibility and tack of blends of poly (vinylpyrrolidone)/acrylic pressure-sensitive adhesive. [*International Journal of Adhesion and Adhesives*](#), 29 (3), 302-308, 2009.
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 65. Zohreh Habibi, Peyman Salehi, Mohammad Ali Zolfigol, **Maryam Yousefi**, A Novel One-Pot Synthesis of Unsymmetrical Acyclic Imides, *Synlett*, 812-814, 2007.
 66. Zohreh Habibi, Peyman Salehi, **Maryam Yousefi**, Yahya Hejazi, Ahmad Laleh, Valiollah Mozaffarian, Shiva Masoudi, Abdolhoseyn Rustaiyan, Volatile Oils of *Ferula latsecta* Rech. f. & Aell and *Mozaffariania insignis* Mozaff. from Iran. *Chemistry of Natural Compounds*, 42 (6): 689-692, 2007.
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Acrylic/PVP Pressure Sensitive Adhesive blends. *Iranian Polymer Journal*.16 (4), 279-285, 2007.

Conference Presentations:

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2. Maryam Yousefi, Zohreh Habibi, Peyman Salehi, Farahnaz Nariman, Phytochemical study of *Codonocephalum stenocalathium* Rech.f. an Endemic plant of Iran with Antibacterial activity, First Seminar of Medicinal & Natural Products Chemistry, 10-11 May, 2005, Shiraz, Iran.
3. Zohreh Habibi, Peyman Salehi, Maryam Yousefi. Chemical Composition and Antimicrobial Activity of the Essential Oil of *Ferula latisecta* RECH. F. & AELL. 12th Iranian Seminar of Organic Chemistry, Ahwaz-Iran 7-9 March 2006.
4. Tayebeh Biniyaz, Mohammad Ali Ashabi, Maryam Yousefi, Zohreh Habibi, Composition of the essential oil of *Tanacetum turcomanicum* (Krasch.)Tzvel., from Iran. 38th International Symposium on Essential Oils, September 9-12, Graz, France, 2007.
5. Seyyed Mojtaba Taghizadeh, Hamid Mirzadeh, Mehdi Barikani, Maryam Yousefi. The Investigation on Miscibility of Acrylic /Poly (vinylpyrrolidone) Blends. ISPST 8th International Seminar on Polymer Science and Technology, October 23-24, Tehran, Iran, 2007.
6. Seyyed Mojtaba Taghizadeh, Hamid Mirzadeh, Mehdi Barikani, Maryam Yousefi. Adhesion properties of Acrylic/ Poly(vinylpyrrolidone) Pressure Sensitive Adhesive blends. ISPST 8th International Seminar on Polymer Science and Technology, October 23-24, Tehran, Iran, 2007.
7. Farahnaz Nariman, Sadegh Massarat, Zohreh Habibi, Fereshteh Eftekhari, Maryam Yousefi. Anti *Helicobacter Pylori* Activity of Twenty Iranian Plants, *Scientific Journal of the Iranian Association of Gastroenterology and Hepatology*, 10: 15, autumn 2005.
8. Zohre Habibi, Maryam Yousefi, Mehdi Mohammadi.

9. Screening of chemical composition and antibacterial activity of the oils from *Artemisia turcomanica*. 15th Iranian Seminar of Organic Chemistry. 27-29 August 2008. Kermanshah, Iran.
10. Zohre Habibi, Mehdi Mohammadi, Maryam Yousefi. New polysulfanes in the Volatile oil of *Ferula behboudiana* Rech. f. & Esfand. 15th Iranian Seminar of Organic Chemistry. 27-29 August 2008. Kermanshah, Iran.
11. Zohreh Habibi, Rasool Eshaghi, Mehdi Mohammadi, Maryam Yousefi. Chemical Composition and Antibacterial Activity of Essential Oil of *Heracleum rechingeri* Manden from Iran. 15th Iranian Seminar of Organic Chemistry. 27-29 August 2008. Kermanshah, Iran.
12. Zohreh Habibi, Mehdi Mohammadi, Somayeh Rahmati, Maryam Yousefi, Gholamreza Imanzadeh, Abbas Shafiee. Volatile constituents of *Salvia ceratophylla* L. and *Salvia indica* L. from Iran. 15th Iranian Seminar of Organic Chemistry. 27-29 August 2008. Kermanshah, Iran.
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14. Zohreh Habibi, Mehdi Mohammadi, Somayeh Rahmati, Maryam Yousefi, Gholamreza Imanzadeh, Ali Sonboli. Volatile Constituents of *Salvia ceratophylla* L. and *Salvia indica* L., from Iran. "IMPORTANT ISSUES IN THE CHEMISTRY OF NATURAL COMPOUNDS" March 18-19, 2009 Tashkent, Republic of Uzbekistan
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20. Ramin Ghahremanzadeh, Parisa Eslami, Maryam Yousefi, Amir Hasan Zarnani Mohammad Mehdi Akhondi, Mehdi Mohammadid. Plant-mediated synthesis of gold nanoparticles using plant extract. 19th Iranian Seminar on Organic Chemistry. Vali-e-Asr University of Rafsanjan, 5 -7 Sep. 2012.
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23. Maryam Yousefi, Mehdi Mohammadi and Mohadese Babaki. Recent development of functionalized mesoporous silica nanoparticles as delivery vehicles for cancer imaging

and therapy. Congress of Nanomedicine in Diagnosis and Treatment of Incurable Disease, 18 and 19 February 2015. Avicenna Research Institute, Tehran, Iran.

24. Mohadese Babaki, Maryam Yousefi, Mehdi Mohammadi, Zohreh Habibi .Enzymatic Production of Biodiesel from Canola Oil Catalyzed by Lipases Preparation on Silica Support. International Union of Pure and Applied Chemistry 2015(IUPAC-2015), August 6-14, 2015.
25. Maryam Yousefi, Mehdi Mohammadi, Mohadese Babaki, Zohreh Habibi, Javad Mohammadi. Enzymatic Biodiesel Synthesis Using Immobilised Lipases onto Mesoporous SBA-15 Silica Nanoparticles. International Union of Pure and Applied Chemistry 2015(IUPAC-2015), August 6-14, 2015.
26. Mehdi Mohammadi, Maryam Yousefi, Maryam Ashjari, Javad Mohammadi, Maryam Garmroodi .Name chemical reactions for immobilization of enzymes as green catalysts. International Union of Pure and Applied Chemistry 2015(IUPAC-2015), August 6-14, 2015.
27. Mohadese Babaki, Maryam Yousefi, Zohreh Habibi, Mehdi Mohammadi, Somayyeh Gandomkar. Enzymatic production of biodiesel from canola oil using lipase immobilized on silica nanoparticles. 1st congress of chemical biotechnology 2016 March 6-8 at NIGEB-CCERCI, Tehran, Iran.
28. Mohadese Babaki, Maryam Yousefi, Zohreh Habibi, Mehdi Mohammadi, Somayyeh Gandomkar. Conversion of soya oil to biodiesel using lipases: effect of water, t-butanol and silica content. 1st congress of chemical biotechnology 2016 March 6-8 at NIGEB-CCERCI, Tehran, Iran.
29. Maryam Garmroodi, Ali Ramezani, Mehdi Mohammadi, Maryam Ashjari, Maryam Yousefi. Hydrophobic immobilization of *Rhizomucor miehei* (RML) on octyl-functionalized SBA-15 for kinetic resolution of racemic ibuprofen. 1st congress of chemical biotechnology 2016 March 6-8 at NIGEB-CCERCI, Tehran, Iran.
30. Fatemeh Salami, Zohreh Habibi, Mehdi Mohammadi, Maryam Yousefi. Covalent immobilization of laccase by one pot three component reaction and application for textile dye degradation. 5th International Conference on Recent Innovations in

Chemistry and Chemical Engineering 2018 February 2 at Allameh tabatabai University, Tehran, Iran.

31. Mohammad Ali As'habi, Maryam Yousefi, Peyman Salehi, Mehdi Mohammadi. Preparation of Biocatalyst by Immobilization of Eversa on Chitosan Beads for Production of Biodiesel from Palm Oil. 1st Iranian Catalyst Conference (ICC), 1-2 September 2018, Zanjan, Iran.
32. Mohammad Ali As'habi, Maryam Yousefi, Peyman Salehi, Mehdi Mohammadi, Jesper Brask. Biocatalytic Application of Immobilized Laccase on Epoxy-Functionalized Silica in Biodegradation of Phenolic Compounds. 1st Iranian Catalyst Conference (ICC), 1-2 September 2018, Zanjan, Iran.
33. Mohammad Ali As'habi, Maryam Yousefi, Peyman Salehi, Mehdi Mohammadi, Jesper Brask. Biocatalytic Application of Immobilized Laccase on Epoxy-Functionalized Silica in Biodegradation of Phenolic Compounds. 1st Iranian Catalyst Conference (ICC), 1-2 September 2018, Zanjan, Iran.
34. Mehdi Mohammadi, Maryam Ashjari, Maryam Garmroodi, Maryam Yousefi. Multi-component reactions for covalent immobilization of biomolecules: What is the mechanism? 1st Iranian Catalyst Conference (ICC), 1-2 September 2018, Zanjan, Iran.
35. Mehdi Mohammadi, Soheil golisani, Hossein Ahmadi, Mehdi qafari, Maryam Yousefi. "A chemo-enzymatic approach for the synthesis of plant pigments". 1th International Congress and the 2nd National Conference on Biotechnology of Medicinal Plants and Mushrooms. University of Zanjan on August 27-28, 2018.
36. Somayeh Rahmati, Maryam Yousefi, Mohammad zaman Kassae. Laccase on graphene oxide: Immobilization and use as a novel biocatalyst for phenol degradation. 1th International Congress and the 2nd National Conference on Biotechnology of Medicinal Plants and Mushrooms. University of Zanjan on August 27-28, 2018.

Editorial Activities

Review Editor on the Editorial Board of Microbiotechnology (specialty section of Frontiers in Microbiology, Frontiers in Bioengineering and Biotechnology and Frontiers in Environmental Science).

Teaching Experiences:

- Teaching assistant in molecular spectroscopy class involving various spectroscopic techniques, Organic Chemistry, B.Sc. and M.Sc. levels, (Tutorial leader for molecular spectroscopy for science students responsible for preparing mini-lectures, quizzes and solutions to problem sets, marking the assignments, and term test papers.) (2007-2011)
- High performance liquid chromatograph for Ph.D students of Immunology (2012)
- Introduction to spectroscopy for B.Sc. students of chemistry in Shahid Beheshti University (2014)
- General Chemistry for B.Sc. students of genetic in Al TahaUniversity (2015)
- Organic Chemistry for B.Sc. students of genetic in Al TahaUniversity (2016)
- Organic Chemistry for B.Sc. students of genetic in Al TahaUniversity (2018)
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Completed or ongoing projects (As project manager or main co-worker):

- “Enzymatic production of biodiesel from waste oil by using two lipases covalently immobilized on magnetic silica nanocomposite; development of isocyanide-based multicomponent reaction for enzyme immobilization”, National Institute of Genetic Engineering and Biotechnology, 2016.
- “Enzymatic production of biodiesel using immobilized lipases on functionalized magnetic silica nanocomposite”, National Institute of Genetic Engineering and Biotechnology, 2015.
- “Biodiesel production by immobilized lipases on functionalized silica and silica nanoparticles”, Avicenna Research Institute (grant from Iran National Science Foundation), 2014.
- “Synthesis of plant-mediated gold nanoparticles using medicinal plant extracts”, Avicenna Research Institute, 2014.
- “Investigation of essential oil from aerial parts of of *Betonica grandiflora* Willd. from Iran”, Shahid Beheshti University, 2011.
- “Synthesis of cyclophosphamide”, Ministry of Health and Medical Education of Iran, 2013.

- “Synthesis of acetylcystein”, Ministry of Health and Medical Education of Iran, 2013.
- “Design, Synthesis and Functionalization of QD525 Nanoparticles”, Avicenna Research Institute, 2013.
- “Using Plant sources for production of chiral alcohols”, Shahid Beheshti University, 2012.
- “ Immobilization of Rhizomocur miehei lipase on modified silica nanoparticles”, National Institute of Genetic Engineering and Biotechnology, 2012.
- "Phytochemical investigation of some species of iranian plants and a novel one pot synthesis of unsymmetrical acyclic imides and amides in presence of silica sulfuric acid "
- “Formulation and evaluation of anti-acne patches”, Novel Drug Delivery Systems in Iran Polymer and Petrochemical Institute 2005.

Conferences as Scientific or Executive Committee:

- Member of Iran nanotechnology laboratory network chromatography experts workgroup
- Member of the scientific committee of international seminar of “Chemical Biotechnology”. March 2016.
- Member of the scientific committee of national seminar of “Nanomedicine in Diagnosis and Treatment of Hard to Treat Diseases”. Jan, 2015.
- Member of the Executive committee of “Novel Drug Delivery Systems” Seminar held by Iran Polymer and Petrochemical Institute; Tehran, Iran, September 2007.
- Member of the Executive committee of “Methods for Identification of Nanoparticles” workshop held by Iran Polymer and Petrochemical Institute; Tehran, Iran, September 2006.

Review board of scientific journals:

- Journal of Molecular Catalysis B: Enzymatic
- Renewable Energy
- Applied Energy
- Process Biochemistry
- Natural Product Research

- Biocatalysis and Biotransformation

Presented Workshops:

- Introductory High Performance Liquid Chromatography (3 hr); at Avicenna Research Institute; Tehran, Iran, 1 May 2014.
- Theoretical and Practical High Performance Liquid Chromatography (8 hr); at Avicenna Research Institute; Tehran, Iran, 6 September 2014.
- Introductory High Performance Liquid Chromatography (2.5 hr); at Avicenna Research Institute; Tehran, Iran, 9 October 2014.
- Theoretical and Practical High Performance Liquid Chromatography (8 hr); at Avicenna Research Institute; Tehran, Iran, 25 January 2015.
- Introductory High Performance Liquid Chromatography (3 hr); at Avicenna Research Institute; Tehran, Iran, 18 February 2015.
- Introductory High Performance Liquid Chromatography (3 hr); at Avicenna Research Institute; Tehran, Iran, 24 April 2015.
- Introductory High Performance Liquid Chromatography (2 hr); at Avicenna Research Institute; Tehran, Iran, 15 August 2015.
- Introductory High Performance Liquid Chromatography (2.5 hr); at Avicenna Research Institute; Tehran, Iran, 5 October 2015.

Received Trainings:

- “Response surface Method” workshop; held by Iranian Research Organization for Science and Technology (IROST); Tehran, Iran, May 2015.
- “Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)” workshop; held by Iran Nanotechnology Laboratory Network; Tehran, Iran, April 2014.
- “Dynamic Light Scattering (DLS)” workshop; held by Iran Nanotechnology Laboratory Network; Tehran, Iran, April 2014.
- “X-ray powder diffraction (XRD)” workshop; held by Iran Nanotechnology Laboratory Network; Tehran, Iran, April 2014.
- “Sample preparation for analytical chromatographic techniques, held by Iran Nanotechnology Laboratory Network; Tehran, Iran, August 2014.

- “Two-dimensional Gas Chromatography GC-GC”; held by Shahid Beheshti University; Tehran, Iran, November 2013.
- “Safety in Academic chemistry laboratories”; held by Avicenna Research Institute; Tehran, Iran, February 2013.
- “Statistical Package for the Social Sciences (SPSS)”; held by Avicenna Research Institute; Tehran, Iran, September 2012.
- “Methods for Identification of Nanoparticles”; held by Iran Polymer and Petrochemical Institute; Tehran, Iran, September 2006.

Honours and Achievements:

- Ranked the sixth in written and the fourth in total in the national exam for entrance nation wide PhD program in Organic Chemistry (2007).