

Curriculum Vitae

First Name: Mohammad

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Postal Address: Department of Organic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, Iran.



Educational Background:

1. University of Tehran, Tehran, Iran. Ph.D. in Organic Chemistry, 2007-2012
Dissertation: “*Indole Functionalization via Palladium-Catalyzed Reactions*”
2. Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany. Visiting Ph.D. student in the group of Prof. A. Stephen K. Hashmi, 2011
Title of research: “*Methodology in Gold Catalysis*”
3. Bowling Green State University, Bowling Green, USA. Visiting researcher in the group of Prof. Pavel Anzenbacher, 2014
Title of research: “*Supramolecular Materials for Molecular Sensing*”
4. Shahid Beheshti University, Tehran, Iran. M.Sc. in Organic Chemistry, 2005-2007.
Dissertation: “*investigation of Baeyer-Villiger oxidation reaction on dianyl isatin*”

Research Interests:

- Transition Metal Catalyzed C-H Activation
- Metal-Catalyzed Domino Reactions
- Nano Chemistry
- Total Syntheses
- Hypervalent iodine chemistry
- Synthesis of Heterocyclic Compounds

Published Research:

A. Articles:

1. Karimi Behzad, S.; Amini, M. M.; Balati, A.; [Ghanbari, M.](#); Sadeghi, O. *Journal of Sol-Gel Science and Technology*, **2016**, 78, 446-456. [Link](#)
“*Adsorption and determination of Cr(VI) in environmental samples using triazine-modified Fe₃O₄ nanoparticles: kinetics and equilibrium modeling*”

2. Karimi Behzad, S.; Balati, A.; Amini, M. M.; [Ghanbari, M.](#)
Microchimica Acta, **2014**, *181*, 1781-1788. [Link](#)
“Triazine-modified magnetite nanoparticles as a novel sorbent for preconcentration of lead and cadmium ions”
3. [Ghanbari, M.](#); Kianmehr, E.; Karimi Behzad, S.; Weng Ng, S.
Journal of the Iranian Chemical Society, **2016**, *13*, 7-18. [Link](#)
“Direct synthesis of benzo[a]carbazoles by palladium-catalyzed domino reactions: synthesis and photophysical properties of diverse benzo[a]carbazoles”
4. Kianmehr, E.; Shamsaei Zafarghandi, N.; [Ghanbari, M.](#)
Molecular Diversity, **2013**, *17*, 383-388. [Link](#)
“A Simple Route for the Synthesis of Novel N-Alkyl-2-(alkylthio)-1H-imidazole derivatives”
5. Hashmi, A. S. K.; [Ghanbari, M.](#); Rudolph, M.; Rominger, F.
Chemistry - A European Journal, **2012**, *18*, 8113 – 8119. [Link](#)
“Combining Gold and Palladium Catalysis: One-Pot Access of Five-Fold Substituted Arenes From Furan-Yne and En-Diyne Substrates”.
Highlighted in Synfacts 2012; 8(9): 0959. [Link](#)
6. Kianmehr, E.; [Ghanbari, M.](#); Faghih, N.; Rominger, F.
Tetrahedron Letters, **2012**, *53*, 1900–1904. [Link](#)
“Palladium-Catalyzed One-Pot Procedure for Regioselective Dimerization and Cyanation of Indoles”
7. Kianmehr, E.; [Ghanbari, M.](#)
Eur. J. Org. Chem. **2012**, 256–259. [Link](#)
“A Direct Palladium-Catalyzed Route to Synthesis of Novel Benzo[a]carbazoles through Sequential C-C Bond Formation and C-H Bond Functionalization”
8. Mehrdad, M.; [Ghanbari, M.](#); Jadidi, K.; Salemia, A.; Khavasi, H. R.
Acta Cryst. **2011**, E67, o49. [Link](#)
“(2Z)-N-(4-Methoxyphenyl)-2-(4-methoxyphenylimino)-2H-1,4-benzoxazin-3-amine”
9. Asgri, D.; [Ghanbari, M.](#); Mehrdad, M.; Jadidia, K.; Khavasia, H. R.
Acta Cryst. **2011**, E67, o350. [Link](#)
“(Z)-N-[5-Bromo-2-(4-methylanilino)-3Hindol-3-ylidene]-4-methylaniline oxide”

10. Kianmehr, E.; [Ghanbari, M.](#); Nadiri Niri, M.; Faramarzi, R.
J. Comb. Chem. **2010**, *12*, 41-44. [Link](#)
“Novel One-Pot Three Component Reaction for the Synthesis of [2-(Alkylsulfanyl)imidazo[1,2-a]pyridin-3-yl](aryl)methanone”
11. Kianmehr, E.; Rajabi, A.; [Ghanbari, M.](#)
Tetrahedron Letters, **2009**, *50*, 1687-1688. [Link](#)
“Palladium-catalyzed addition of arylboronic acids to isocyanates”
12. Jadidi, K.; Ghahremanzadeh, R.; Mehrdad, M.; [Ghanbari, M.](#); Arvi Nezhad, H.
Monatshefte für Chemie, **2008**, *139*, 277-280. [Link](#)
“A Simple Indirect Route for the Synthesis of N-Alkyl-4-imino-1,4-dihydro-2H-3,1-benzoxazin-2-ones”

C. Presentations:

1. [Ghanbari, M.](#); Karimi Behzad, S.; Amini, M. M.
7th Seminar of Chemistry and Environment, 26-27 August, **2015**, Tehran, Iran.
“Aqueous Adsorption of Persistent Aromatic Pollutant by Modified Graphene Oxide Nanocomposite”
2. [Ghanbari, M.](#); Karimi Behzad, S.; Amini, M. M.
7th Seminar of Chemistry and Environment, 26-27 August, **2015**, Tehran, Iran.
“A Novel Sorbent for Adsorption and Determination of Cr(VI) in Environmental Samples”
3. [Ghanbari, M.](#); Akbari, S.
7th Seminar of Chemistry and Environment, 26-27 August, **2015**, Tehran, Iran.
“New Polymer Materials as a Novel Superadsorbent for Removal of PAHs from Aqueous Solutions”
4. [Ghanbari, M.](#); Mollakarimi, N.
18th Iranian Chemistry Congress, August 30 - September 1, **2015**, Semnan, Iran.
“A Direct Palladium-Catalyzed Route for the Synthesis of Benzo[a]carbazoles: Synthesis and Photophysical Properties of Diverse Benzo[a]carbazoles”
5. [Ghanbari, M.](#); Karimi Behzad, S.; Amini, M. M.
18th Iranian Chemistry Congress, August 30 - September 1, **2015**, Semnan, Iran.
“Synthesis, Characterization, and Photoluminescent Properties of Novel Europium Complexes: Effect of the Ligand Structure on the Emission Quantum Yield”
6. [Ghanbari, M.](#); Karimi Behzad, S.; Amini, M. M.
18th Iranian Chemistry Congress, August 30 - September 1, **2015**, Semnan, Iran.

“Triazine-functionalized Magnetite Nanoparticles as a Highly Selective Sorbent for Determination of Palladium and Gold Ions in Environmental Samples”

7. **Ghanbari, M.**; Kianmehr, E.; Nadiri Niri, M.; Faramarzi, R.
11th Tetrahedron Symposium, 22 – 25 June, **2010**, Beijing, China.
“Novel One-Pot Three Component Reaction for the Synthesis of (2-(alkylthio)H-imidazo[1,2-a]pyridin-3-yl)(aryl)methanone”
8. **Ghanbari, M.**; Kianmehr, E.; Faghieh, N.
17th Iranian Seminar of Organic Chemistry, 13-15 October, **2010**, Babolsar, Iran. (Selected as the best poster)
“Palladium-Catalyzed Direct Cyanation of Indoles through C-H Bond Activation”
9. Jadidi, K.; Ghahremanzadeh, **Ghanbari, M.**
13th Iranian Seminar of Organic Chemistry, 7-9 September **2006**, Hamedan, Iran.
“A fast and highly efficient method for synthesis of 1,4- benzodiazepine-2,5-diones using basic ionic liquid [bmim]Br as green media”

Teaching Experiences:

1. Advanced Organic Chemistry (M.Sc. Course).
2. Advanced Medicinal Chemistry (M.Sc. Course).
3. Synthesis of Organic Compounds (M.Sc. Course).
4. Heterocyclic Chemistry (M.Sc. Course).
5. Medicinal Chemistry
6. Organic Chemistry I
7. Organic Chemistry II
8. Organic Chemistry III
9. English for Chemistry
10. General Chemistry
11. Laboratory of Organic Chemistry I
12. Laboratory of Organic Chemistry II

Awards and Activities:

1. Ranked at position **2** in the Ph.D. Entrance Exam University of Tehran (**2007**)
2. Ranked at position **2** in the Ph.D. Entrance Exam of Tarbiat Moaalem University (**2007**)

3. Ranked at position **77th** among **8319** graduated chemistry examinees in the nationwide Master of Science entrance examination of Iran universities in **2005**.
4. Ranked at position **1** in the M.Sc. course.
5. Member of Institute of National Elite of Iran.
6. Awarded a scholarship from Ministry of Science, Research and Technology of the Iran for research (**2011**)