

## Curriculum Vitae

**First Name:** Mohammad

**Last Name:** Ghanbari

**Date of Birth:** 1982

**Email Address:** [ghanbari-m@kashanu.ac.ir](mailto:ghanbari-m@kashanu.ac.ir)

**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. Shahid Beheshti University, Tehran, Iran.  
M.Sc. in Organic Chemistry, 2005-2007.  
Dissertation: “*investigation of Baeyer-Villiger oxidation reaction on dianyl isatin*”
4. University of Sistan & Baluchestan, Zahedan, Iran.  
B.Sc. in Chemistry, 2001-2005.

### Research Interests:

- Transition Metal Catalyzed C-H Activation
- Electroluminescent materials
- Cross Coupling Reactions
- Total Syntheses
- Synthesis of Heterocyclic Compounds

### Published Research:

#### A. Thesis:

1. [Ghanbari, M.](#), 2012, “*Indole Functionalization via Palladium-Catalyzed Reactions*”, thesis accepted for Ph.D. degree in Organic Chemistry.
2. [Ghanbari, M.](#), 2007, “*investigation of Baeyer-Villiger oxidation reaction on dianyl isatin*”, thesis accepted for M.Sc. degree in Organic Chemistry.

## B. Articles:

1. 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”
2. Hashmi, A. S. K.; Ghanbari, M.; Rudolph, M.; Rominger, F.  
*Synfacts*, **2012**, *8* (9), 0959. [Link](#)  
“Isoindolinols and Dihydroisobenzofuranols via Combined Au-Pd Catalysis”
3. 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”.
4. 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”
5. 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”
6. 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”
7. 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”
8. 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”
9. Kianmehr, E.; Rajabi, A.; Ghanbari, M.  
*Tetrahedron Letters*, **2009**, *50*, 1687-1688. [Link](#)  
“Palladium-catalyzed addition of arylboronic acids to isocyanates”

10. 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-2*H*-3,1-benzoxazin-2-ones”
11. Jadidi, K.; [Ghanbari, M.](#); Mehrdad, M.; Ghahremanzadeh, R.  
*Tetrahedron Letters*, Submitted.  
 “Synthesis of 1,4-benzoxazines and *N*-aryl-*N*-(2-arylamino-3*H*-indol-3-ylidene)amine *N*-oxides via a Bayer-Villiger oxidation reaction”
12. Karimi Behzad, S., Balati, A., Mostafa M. Amini, [Ghanbari, M.](#)  
*Microchimica Acta*, Accepted.  
 “Triazine-modified magnetite nanoparticles as a novel sorbent for preconcentration of lead and cadmium ions”
13. Balati, A., [Ghanbari, M.](#), Karimi Behzad, S., Mostafa M. Amini.  
*Journal of Hazardous Materials*, Preparing.  
 “Synthesis of graphene oxide-9-aminoanthracene from in situ grapheme oxide reduction and its improved adsorption properties for Persistent Aromatic Pollutant Management: Comparison with grapheme”
14. Karimi Behzad, S., [Ghanbari, M.](#), Mostafa M. Amini, Weng Ng. S.  
*Inorganic Chemistry*, Preparing.  
 “Synthesis, Structural Characterization, Photophysical and Electrochemical of Luminescent Europium Complex Based on 2,4-bis(3,5-dimethyl-1*H*-pyrazol-1-yl)-6-Aryl-1,3,5-triazine”

### C. Presentations:

1. [Ghanbari, M.](#); Kianmehr, E.; Nadiri Niri, M.; Faramarzi, R.  
*11<sup>th</sup> 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”
2. [Ghanbari, M.](#); Kianmehr, E.; Faghieh, N.  
*17<sup>th</sup> 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”
3. Jadidi, K.; Ghahremanzadeh, [Ghanbari, M.](#)  
*13<sup>th</sup> 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. Synthesis of Organic Compounds (M.Sc. Course).
3. Heterocyclic Chemistry (M.Sc. Course).
4. Organic Chemistry (B. Sc. Course)
5. General Chemistry (B. Sc. Course)

### **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 **44<sup>th</sup>** 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**)