

Curriculum vitae
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Najmeh Nowrouzi- Ph.D.
Associate professor, Organic Chemistry
Persian Gulf University

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Educational Records:

High School Diploma: Tohid High School, Shiraz, Iran, 1997.
B.S. in Chemistry: Shiraz Univ., Iran, 1998-2002. (First Rank)
M.S. in Organic Chemistry: Shiraz Univ., Iran, 2002-2004. (First Rank)
Ph.D. in Organic Chemistry: Shiraz Univ., Iran, 2004-2008.

Current Position:

Associate professor, Persian Gulf University, Faculty of Sciences, Chemistry Department.

Awards and Honors:

- Member of National Foundation of Exceptional Talents (**Bonyad-e Melli-e Nokhbegan**) from 2009.
- As one of the top students in the National Chemistry **Olympiad** in 2002.
- Among the **talented PhD students** in Shiraz university.
- M.Sc. Graduated with Honors (First rank) at Shiraz University.
- B.Sc. Graduated with Honors (First rank) at Shiraz University.
- First-Rank student in the PhD entrance exam of Shiraz University.
- Top researcher of the Faculty of Sciences of the Persian Gulf University in 2014.
- Top Researcher of Bushehr Province in 2016.

Research Interests short list:

Phosphorous Compounds

Ionic Liquids

Organometallic Chemistry

Synthesis of heterocyclic compounds

Conference Papers: (15)

1. 12th Iranian seminar of organic chemistry, 7-9 March 2006, Ahwaz Jundi Shapour University of Medical Sciences.
2. 17th Iranian seminar of organic chemistry, 13-15 October 2010, University of Mazandaran, Babolsar.
3. 15th Iranian Chemistry *Congress*, 4-6 September 2011, Bu- Ali Sina University, Hamedan
4. 19th Iranian seminar of organic chemistry, 5-7 September 2012, Vali Asr University, Rafsanjan.
5. 1st national conference on new technologies in Chemistry & Chemical Engineering, 16-18 May 2013, Tehran.
6. 20th Iranian seminar of organic chemistry, 3-5 July 2013, Bu- Ali Sina University, Hamedan **(2 paper)**
7. 20th Iranian seminar of organic chemistry, 19-21 August 2014, Tabriz University, Tabriz **(4 paper)**
8. 4th National symposium on chemistry, chemical engineering and nanoscience, December 2016, Tehran.

9. 1st annual conference on chemistry and chemical engineering, June 2017, Tehran.
10. 3rd National conference of materials engineering, chemical engineering and industrial safety, October 2017, Esfarayen.
11. 25th Iranian seminar of organic chemistry, September 2017, Tehran.

Publications:(35)

1. *"Conversion of alcohols, thiols, and trimethylsilyl ethers to alkyl cyanides using triphenylphosphine/2,3-dichloro-5,6-dicyanobenzoquinone/n-Bu₄NCN"*
Iranpoor, N.; Firouzabadi, H.; Akhlaghinia, B.; **Nowrouzi, N.** *J. Org. Chem.* **2004**, 69, 2562.
2. *"A novel and highly selective conversion of alcohols, thiols, and silyl ethers to azides using the triphenylphosphine/2,3-dichloro-5,6-dicyanobenzoquinone(DDQ)/n-Bu₄NN₃ system"*
Iranpoor, N.; Firouzabadi, H.; Akhlaghinia, B.; **Nowrouzi, N.** *Tetrahedron Lett.* **2004**, 45, 3291.
3. *"Preparation of thiocyanates and isothiocyanates from alcohols, thiols, trimethylsilyl- and tetrahydropyranyl ethers using triphenylphosphine/2,3-dichloro-5,6-dicyanobenzoquinone (DDQ)/n-Bu₄NSCN system"*
Iranpoor, N.; Firouzabadi, H.; **Nowrouzi, N.** *Tetrahedron* **2006**, 62, 5498.
4. *"A novel method for the highly efficient synthesis of 1,2-benzisoxazoles under neutral conditions using the Ph₃P/DDQ system"*
Iranpoor, N.; Firouzabadi, H.; **Nowrouzi, N.** *Tetrahedron Lett.* **2006**, 8247.
5. *"Highly chemoselective nitration of aromatic amines using the Ph₃P/Br₂/AgNO₃ system"*
Iranpoor, N.; Firouzabadi, H.; **Nowrouzi, N.**; Firouzabadi, D. *Tetrahedron Lett.* **2006**, 6879.
6. *"Ph₃P/Br₂/n-Bu₄NNO₂ as an efficient system for the preparation of N-nitrosamines and azides"*
Iranpoor, N.; Firouzabadi, H.; **Nowrouzi, N.** *Tetrahedron Lett.* **2008**, 4242.
7. *"Selective mono- and di-N-alkylation of aromatic amines with alcohols and acylation of aromatic amines using Ph₃P/DDQ"*

- Iranpoor, N.; Firouzabadi, H.; **Nowrouzi, N.**; Khalili, D. *Tetrahedron* **2009**, 65, 3893.
8. "A simple and convenient method for preparation of carboxylic acid alkyl esters, phenolic and thioesters using chlorodiphenylphosphine / I₂ and imidazole reagent system"
Nowrouzi, N.; Mehranpour, A. M.; Ameri Rad, J. *Tetrahedron* **2010**, 66, 9596.
 9. "Nitration of aromatic compounds under neutral conditions using the Ph₂PCl/I₂/AgNO₃ reagent system"
Nowrouzi, N.; Zareh Jonaghani, M. *Tetrahedron Lett.* **2011**, 52, 5081.
 10. "One-pot, direct synthesis of acyl azides from carboxylic acids using Ph₂PCl/I₂/NaN₃ reagent system"
Nowrouzi, N.; Zareh Jonaghani, M. *Chin. Chem. Lett.* **2012**, 23, 442.
 11. "Highly selective mono-N-benylation and amidation of amines with alcohols or carboxylic acids using the Ph₂PCl/I₂/imidazole reagent system"
Nowrouzi, N.; Zareh Jonaghani, M. *Can. J. Chem.* **2012**, 90, 498.
 12. "Aromatic nitration under neutral conditions using N-bromosuccinimide/silver(I) nitrate"
Nowrouzi, N.; Mehranpour, A. M.; Bashiri, E.; Shayan, Z. *Tetrahedron Lett.* **2012**, 53, 4841.
 13. "Benzoyl peroxide–imidazole: a novel and efficient reagent for the mild conversion of alcohols or phenols into benzoates"
Nowrouzi, N.; Alizadeh, S. Z. *Tetrahedron Lett.* **2013**, 54, 2412.
 14. "In situ generated acylimidazolium acetate as efficient catalyst and acylating agent for the acetylation of alcohols, phenols and amines at room temperature"
Nowrouzi, N.; Alizadeh, S. Z. *Chin. J. Catal.* **2013**, 34, 1787.
 15. "Amine-based ionic liquids (R₃N⁺PPh₂) as a reusable reaction medium and Pd(II) ligand in Heck reactions of aryl halides with styrene and n-butyl acrylate"
Nowrouzi, N.; Tarokh, D.; Motevalli, S. *J. Mol. Catal. A: Chem.* **2014**, 385, 13.
 16. "Palladium-Catalyzed Direct C-H Arylation of 2-Hydroxybenzaldehyde with Organic Halides in Neat Water"
Nowrouzi, N.; Motevalli, S.; Tarokh, D. *J. Mol. Catal. A: Chem.* **2015**, 396, 224.
 17. "Ligand Free Heck Coupling and Homocoupling of Aryl Halides in the Presence of Tetrabutylammonium Nitrate"

- Nowrouzi, N.;** Tarokh, D. *J. Iran. Chem. Soc.* **2015**, 12, 1623.
18. “One-pot synthesis of 1,2,4-oxadiazoles from carboxylic acids using 4-(dimethylamino)pyridinium acetate as efficient, regenerable, and green catalyst with ionic liquid character”
Nowrouzi, N.; Khalili, D.; Irajzadeh, M. *J. Iran. Chem. Soc.* **2015**, 12, 801-806.
19. “Phosphorous-based ionic liquids as condensing agent and medium for efficient esterification of carboxylic acids with alcohols and phenols”
Nowrouzi, N.; Irajzadeh, M. *Iranian Journal of Science and Technology Transaction A: Science*, **2015**, 39A1: 11-16.
20. “4-(N,N-dimethylamino)pyridinium acetate as a recyclable catalyst for the synthesis of 5-substituted-1H-tetrazoles”
Nowrouzi, N.; Farahi, S.; Irajzadeh, M. *Tetrahedron Lett.* **2015**, 56, 739-742.
21. “NiCl₂.6H₂O: an efficient catalyst precursor for ligand-free Heck and Sonogashira cross-coupling reactions”
Nowrouzi, N.; Zarei, M. *Tetrahedron.* **2015**, 71, 7847-7852.
22. “First Direct Access to 2-Hydroxybenzophenones via Nickel-Catalyzed Cross-Coupling of 2-Hydroxybenzaldehydes Aryl Iodides”
Nowrouzi, N.; Zarei, M. Roozbin, F. *RSC Adv.* **2015**, 5, 102448-102453.
23. “Ligand-free palladium catalyzed phosphorylation of aryl iodides”
Nowrouzi, N.; Keshtgar, S.; Bahman Jahromi, E. *Tetrahedron Lett.* **2016**, 57, 348.
24. “Piperazinium Dihydrogen Sulfate: an Acidic Ionic Liquid for the [3+2] Cycloaddition Reaction of Sodium Azide with Organic Nitriles”
Nowrouzi, N.; Farahi, S.; Irajzadeh, M. *Letters in Organic Chemistry*, **2016**, 13, 113-119.
25. واکنش‌های هک و سونوگاشیرا کاتالیز شده با پالادیوم در حضور مایعات یونی بر پایه ترکیبات آمینی
نجمه نوروزی، صبا کشتگر. *مجله شیمی کاربردی (اندیشه علوم)*. **1395**، 39، 115.
26. “PdCl₂/DABCO-Catalyzed Direct Arylation of 2-Hydroxybenzaldehydes in H₂O”
Nowrouzi, N.; Tarokh, D. *J. Iran. Chem. Soc.* **2016**, 13, 1493.

27. "Application of PEG-400 as a green biodegradable polymeric medium for the catalyst-free synthesis of spiro-dihydropyridines and their use as acetyl and butyrylcholinesterase inhibitors"
Maryamabadi , A.; Hasaninejad , A.; **Nowrouzi , N.**; Mohebbi , Gh.; Asghari, B. *Bioorg Med Chem.* **2016**; 24 (6), 1408.
28. "Thiol-Free Route to Diaryl Sulfides via Cu-Catalyzed Coupling of Sodium Thiosulfate with Aryl Halides"
Nowrouzi, N.; Abbasi, M.; Latifi, H. *Chin. J. Catal.* **2016**, 37,1550.
29. "Ligand-free Copper-catalyzed direct synthesis of diaryl- sulfides and disulfides in wet polyethylene glycol"
Nowrouzi, N.; Abbasi, M.; Latifi, H. *Appl. Organomet. Chem.* **2017**, 31, e3579.
30. "Selective synthesis of organic sulfides or disulfides by solvent exchange from aryl halides and KSCN catalyzed by NiCl₂.6H₂O"
Abbasi, M.; **Nowrouzi, N.**; Latifi, H. *J. Organomet. Chem.* **2016**, 822, 112.
31. "A Facile Synthesis of Novel 3-Substituted Pyrido[1,2-a]pyrimidinium Salts Using Vinamidinium Salts"
Bahman Jahromi, E.; Mehranpour, A.; **Nowrouzi, N.** *Synth. Commun.* **2016**, 46, 1833.
32. "Sodium cyanide promoted copper-catalyzed aerobic oxidative synthesis of esters from aldehydes"
Nowrouzi, N.; Abbasi, M.; Bagheri, M. *Appl. Organomet. Chem.* **2017**, 31, e3766.
33. "Green synthesis of novel spiro-indenoquinoxaline derivatives and their cholinesterases inhibition activity"
Maryamabadi , A.; Hasaninejad , A.; **Nowrouzi , N.**; Mohebbi, Gh. *Bioorg Med Chem.* **2017**, 25 (7), 2057.
34. "Cu-catalyzed first direct accesstowards 3-sulfenylindoles from aryl halides"
Golzar, N.; **Nowrouzi, N.**; Abbasi, M. *New J. Chem.* **2017**, 41, 11921.
35. "Conversion of organic halides to disulfanes using KCN and CS₂"
Abbasi, M.; **Nowrouzi, N.**; Ghassab Borazjani, S. *Tetrahedron Lett.* **2017**, 58, 4251.