

## Curriculum vitae

Shirin Naserifar

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### Education

- 2014-2016 M.Sc. in Organic chemistry: Department of Chemistry, Arak University, Arak, Iran  
Thesis: Facile epoxidation of  $\alpha$ ,  $\beta$ -unsaturated ketones using Urea-2,2- dihydroperoxypropane as a new oxidant
- 2010-2014 B.Sc. in Applied Chemistry: Department of Chemistry, Arak University, Arak, Iran

### Honors

- 2017 Selected as the Pre-Eminent researcher in Markazi province
- 2016 Selected as the Pre-Eminent M.Sc. student at Arak University

### Research experiences

Synthesis of *gem*-dihydroperoxides, Epoxidation of  $\alpha$ ,  $\beta$ -unsaturated ketones, Oxidation of sulfides to sulfoxides and sulfones, Oxidative esterification, Thiocyanation of aromatic compounds, Epoxidation of alkenes, Amidation of aromatic aldehydes, Bayer-villegger reaction, Bromination and iodation of aniline and phenol derivatives, Oxidation of pyridines, Oxidation of secondary, allylic and benzylic alcohols, Nano catalyst and zeolite applications in the synthesis of *gem*-dihydroperoxides and 1,2,4,5-tetraoxanes, Dehydrogenation of dihydropyrimidinones.

### Apprenticeship

- 2014 (about 2 months) Dr. Momeni pharmacy, Arak, Markazi, Iran

### Work experiences

- 2014- 2019 English teacher at Novin Language Institute, Arak, Iran

2018	English teacher at Tehran Institute of Technology- Arak Branch
2010- 2014	English teacher at Aras Language Institute, Arak, Iran
2016	English teacher at Arak University

## Publications

1. K. Khosravi, **Sh. Naserifar**, "Urea-2,2-dihydroperoxypropane as a novel and high oxygen content alternative to dihydroperoxypropane in several oxidation reactions", *ChemistrySelect*, 2019, 4 (5), 1576-1585.
2. K. Khosravi, A. Azizi, **Sh. Naserifar**, "Efficient oxidative dehydrogenation of dihydropyrimidinones and thiocyanation of aromatic compounds using 1,1,2,2-tetrahydroperoxy-1,2-diphenylethane as the oxidant", *Organic Chemistry Research*, 2019, 5 (2), 128-138.
3. K. Khosravi, **Sh. Naserifar**, "1,1,2,2-Tetrahydroperoxy-1,2-Diphenylethane: An efficient and high oxygen content oxidant in various oxidative reactions", *Tetrahedron*, 2018, 74, 6584-6592.
4. K. Khosravi, **Sh. Naserifar**, B. Mahmoudi, K. Khalaji, "1, 1, 2, 2-tetrahydroperoxy-1, 2-diphenylethane as New Oxidant for Chemoselective and Catalyst Free Oxidation of Sulfides to Sulfoxides and Sulfones", *Phosphorus, Sulfur, and Silicon and the Related Elements*, 2017, 192 (3), 316-321.
5. K. Khosravi, A. R. Karimi, **Sh. Naserifar**, "Alkanedisulfamic acid functionalized silica-coated magnetic nanoparticles as a reusable efficient nanocatalyst for synthesis of *gem*-dihydroperoxides and 1,2,4,5-tetraoxanes", *Iranian Journal of Catalysis*, 2017, 7(1), 11-20.
6. K. Khosravi, K. Khalaji, **Sh. Naserifar** "Solvent and metal free oxidative esterification of aromatic aldehydes using urea-2,2-dihydroperoxypropane as a new solid oxidant", *Journal of the Chinese Chemical Society*, 2017, 64 (3), 303-309.
7. K. Khosravi, **Sh. Naserifar**, B. Mahmoudi, "Metal-Free and Efficient Epoxidation of  $\alpha$ ,  $\beta$ -Unsaturated Ketones with 1, 1, 2, 2-Tetrahydroperoxy-1, 2-Diphenylethane as a Powerful Solid Oxidant", *Journal of the Chinese Chemical Society*, 2017, 64 (6), 683-689.
8. K. Khosravi, M. Zendejdel, **Sh. Naserifar**, F. Tavakoli, K. Khalaji, A. Asgari, "Heteropoly acid/NaY zeolite as a reusable solid catalyst for highly efficient synthesis of *gem*-dihydroperoxides and 1, 2, 4, 5-tetraoxanes", *Journal of Chemical Research*, 2016, 40 (12), 744-749.
9. K. Khosravi, **Sh. Naserifar**, A. Asgari, "A Chemoselective Oxidation of Sulfides to Sulfoxides and Sulfones Using urea-2,2-dihydroperoxypropane as a Novel Oxidant", *Letters in Organic Chemistry*, 2016, 13, 749-756.
10. K. Khosravi, **Sh. Naserifar**, "Facile epoxidation of  $\alpha$ ,  $\beta$ -unsaturated ketones with urea-2, 2-dihydroperoxypropane as a new oxidant", *Journal of the Iranian Chemical Society*, 2016, 14 (2), 323-328.

### Published book

**Title:** How to use scientific chemistry documents

**By:** K. Khosravi, Sh. Naserifar

**ISBN:** 978-964-7320-87-0

**Publication year:** 2017

### Seminars attended

2015

23<sup>rd</sup> Iranian seminar of organic chemistry, University of Kurdistan,  
Kurdistan, Iran

Title: Facile epoxidation of  $\alpha$ ,  $\beta$ -unsaturated ketones by Urea-acetone  
peroxide as a new peroxide

### Languages

Persian (Native)    English (Excellent)    Arabic (Excellent)    Swedish (Beginner)

### Personality

•Friendly and Cheerful manner • High perseverance • Dedicated team player • Fully organized and punctual • Highly motivated for taking Responsibilities • Creative and resourceful • Excellent skills in communication and collaboration • Self-motivated