

Resume





First name: Reza

Last name: Khalifeh

Academic title: Professor

Area of Specialty: Organic Chemistry

Areas of Interest: Design and synthesis of nano catalyst, Design and synthesis of organic compounds, Drug delivery, Design and synthesis of hollow spheres

Projects & Research Activities:

- 1. Study and investigation of synthetic methods of Uranine tracer material
- 2. Acquiring and developing technical knowledge of TEGDMA production on a laboratory scale
- 3. CO₂ adsorption and conversion to valuable cyclic carbonate compounds using ionic liquids and hollow nanostructures

Selected publication

- "Highly Selective and Sensitive Membrane Sensors for Copper(II) Ion Based on a New Benzo-Substituted Macrocyclic Diamide 6,7,8,9,10-Hexahydro-2H-1,13,4,7,10-benzodioxatriazacyclopentadecine- 3,11(4H,12H)-dione" Mojtaba Shamsipur, Farhang Mizani, Ali Akbar Saboury, Hashem Sharghi and Reza Khalifeh Electroanalysis 2007, 19, 587.
- "Synthesis of Some Novel Thioxanthenone-Fused Azacrown Ethers, and Their Use as New Catalysts in the Efficient, Mild, and Regioselective Conversion of Epoxides to b-Hydroxy Thiocyanates with Ammonium Thiocyanate" Hashem Sharghi, Alireza Salimi Beni and Reza Khalifeh *Helvetica Chimica Acta* 2007, 90, 1373.
- "A solvent-free protocol for facile condensation of indoles with carbonyl compounds using silica chloride as a new, highly efficient, and mild catalyst" Alireza Hasaninejad, Abdolkarim Zare, Hashem Sharghi, Mohsen Shekouhy, Reza Khalifeh, Alireza Salimi Beni and Ahmad Reza Moosavi Zare *Can. J. Chem.* 2007, 85, 416.
- "Eco-Friendly Synthesis of Novel Lariat Ethers via Mannich Reaction under Solventless Conditions" Hashem Sharghi and Reza Khalifeh HETEROCYCLES 2007, 71, 1601.
- "A new one-pot procedure for the synthesis of 2-substituted benzimidazoles" Hashem Sharghi, Omid Asemani and Reza Khalifeh Synth. Commun. 2008, 38, 1128.
- "Reaction on a Solid Surface. A simple, Economical and Efficient Mannich Reaction of Aza Crown Ethers over Graphite" Hashem Sharghi and Reza Khalifeh Can. J. Chem. 2008, 86, 426.
- 7. "Spectroscopic Studies of Charge-Transfer Complexation of Iodine with a New Benzo-Substituted Macrocyclic Diamide in Chloroform, Dichloromethane and

their 1:1 Mixture" N. Alizadeh, M.A. Zanjanchi, H. Sharghi, **R. Khalifeh** and M. Shamsipur *J. Iran. Chem. Soc.* **2008**, *5*, 610.

- 8. "An efficient and selective flourescent optode membrane based on 7-[(5-chloro-8-hydroxy-7-quinolinyl)methyl]-5,6,7,8,9,10-hexahydro-2*H*-1,13,4,7,10benzodioxatriazacyclopentadecine-3,11(4*H*,12*H*)-dione as a novel fluoroionophore for determination of cobalt(II) ions" Mojtaba Shamsipur, Marzieh Sadeghi, Kamal Alizadeh, Hashem Sharghi, **Reza Khalifeh** *Anal. Chim. Acta* 2008, 630, 57.
- "PCl₅ as a Mild and Efficient Catalyst for the Synthesis of Bis(indolyl)methanes and Di-bis(indolyl)methanes" A. R. Hasaninejad, A. Zare, H. Sharghi, R. Khalifeh, A. R. Moosavi Zare *Bull. Chem. Soc. Ethiop.* 2008, 22, 453-458.
- "Silica-Supported LiHSO4 as a Highly Efficient, Mild, Heterogeneous, and Reusable Catalytic System for the Solvent-Free Synthesis of Bis(indolyl)methanes" Alireza Hasaninejad, Abdolkarim Zare, Hashem Sharghi, Reza Khalifeh, Mohsen Shekouhy *Phosphorus, Sulfur, and Silicon* 2009, 184, 2508-2515.
- 11. "Copper Nanoparticles on Charcoal for Multicomponent Catalytic Synthesis of 1,2,3 Triazole derivatives from Benzyl halides or Alkyl halides, Terminal Alkynes and Sodium azide in Water as a "Green" Solvent" Hashem Sharghi, Reza Khalifeh and Mohammad Mahdi Doroodmand *Adv. Synth. Catal.* **2009**, 351, 207.
- 12. "Immobilization of Porphyrinatocopper Nanoparticles onto Activated Multi-Walled Carbon Nanotubes and a Study of its Catalytic Activity as an Efficient Heterogeneous Catalyst for a Click Approach to the Three-Component Synthesis of 1,2,3-Triazoles in Water" Hashem Sharghi, Mohammad Hassan Beyzavi, Afsaneh Safavi, Mohammad Mahdi Doroodmand, **Reza Khalifeh** *Adv. Synth. Catal.* **2009**, *351*, 2391.
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Alizadeh, Somaieh Zohrevand, Ali Reza Ghiasvand, Payman Hashemi, Mojtaba Shamsipur, Hashem Sharghi, **Reza Khalifeh** *Microchim Acta* **2010**, *168*, 115.

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- 15. "One-pot, Three-Component Synthesis of 1-(2-Hydroxyethyl)-1*H*-1,2,3-triazole Derivatives by Copper-Catalyzed 1,3-Dipolar Cycloaddition of 2-Azido Alcohols and Terminal Alkynes under Mild Conditions in Water" Hashem Sharghi, Mona Hosseini-Sarvari, Fatemeh Moeini, **Reza Khalifeh**, Alireza Salimi Beni *Helv*. *Chim. Acta* **2010**, 93, 435.
- "Catalytic Friedel–Crafts Acylation and Benzoylation of Aromatic Compounds Using Activated Hematite as a Novel Heterogeneous Catalyst" Hashem Sharghi, Mahboubeh Jokar, Mohammad Mahdi Doroodmand, Reza Khalifeh Adv. Syn. Cat. 2010, 352, 3031.
- 17. "Carbon nanotube composite coated platinum electrode for detection of Ga(III)"
 A. Abbaspour,, Seyyed Mehdi Khoshfetrat, H. Sharghi, **R. Khalifeh** *J. Hazard. Mater.* 2011, 185, 101.
- 18. "Mannich reaction of secondary amines, aldehyde and alkyne in water as a "Green" solvent by Cu/C nanoparticles as heterogeneous catalyst" Hashem Sharghi, **Reza Khalifeh**, Fatemeh Moeini, Mohammad Hassan Beyzavi, Alireza Salimi Beni, Mohammad Mahdi Doroodmand *J. Iranian Chem. Soc.* **2011**, *8*, S89.
- "Melamine-formaldehyde resin supported H⁺ a mild and inexpensive reagent for synthesis of coumarins under mild conditions" Ramin Rezaei, Leila Dorosty, Maryam Rajabzadeh, **Reza Khalifeh** *Chinese Chem. Lett.* **2011**, *22*, 1313.
- 20. "Simple, Efficient, and Applicable Route for Synthesis of 2-Aryl(Heteroaryl)-Benzimidazoles at Room Temperature Using Copper Nanoparticles on Activated Carbon as a Reusable Heterogeneous Catalyst" Hashem Sharghi, **Reza Khalifeh**, Seyed Gholamhossein Mansouri, Mahdi Aberi, Mohammad Mehdi Eskandari *Catal. Lett.* **2011**, *141*, 1845.

- "Three-component synthesis of propargylamine derivatives via 1,4dihydroxyanthraquinone-copper(II) complexes as an efficient catalyst under solvent-free conditions" H. Sharghi, A. Khoshnood, R. Khalifeh Iran. J. Sci. Tech. 2012, A1, 25.
- 22. "1,4-Dihydroxyanthraquinone-copper(II) nanoparticles immobilized on silica gel: a highly efficient, copper scavenger and recyclable heterogeneous nanocatalyst for a click approach to the three-component synthesis of 1,2,3-triazole derivatives in water" Hashem Sharghi, Abbas Khoshnood, Mohammad Mahdi Doroodmand, Reza Khalifeh *JICS* 2012, *9*, 231.
- 23. "Synthesis of novel β-lactams bearing an anthraquinone moiety, and evaluation of their antimalarial activities" Aliasghar Jarrahpour, Edris Ebrahimi, Reza Khalifeh, Hashem Sharghi, Mohammad Sahraei, Veronique Sinou, Christine Latour, Jean Michel Brunel *Tetrahedron* 2012, 68, 4740.
- 24. "Fe₃O₄ Nanoparticles as an Efficient and Magnetically Recoverable Catalyst for Friedel–Crafts Acylation Reaction in Solvent-Free Conditions" S. Jafar Hoseini, Hasan Nasrabadi, Mahboobeh Azizi, Alireza Salimi Beni, Reza Khalifeh *Synthetic Commun.* 2013, 43, 1683.
- 25. "Melamine-formaldehyde resin supported H⁺ -catalyzed three-component synthesis of 1,8-dioxo-decahydroacridine derivatives in water and under solvent-free condition" Ramin Rezaei, **Reza Khalifeh**, Maryam Rajabzadeh, Liela Dorosty, Mohammad Mahdi Doroodmand *Heterocycl. Commun.* **2013**, *19*, 57.
- "Development of a highly sensitive and selective optical sensor for determination of ultra-trace amount of silver ions" Ali R. Firooza, Ali A. Ensafi, Nafiseh Kazemifard, Reza Khalifeh Sensors Actuators B 2013, 176, 598.
- 27. "Synthesis of [Zn(II)BHPPDAH] as New Heterogeneous Catalyst without Being Immobilized on Any Support and Applied for Mannich Reaction" Reza Khalifeh, Hashem Sharghi, and Zahra Rashidi *Heteroatom Chem.* 2013, 24, 372.
- 28. "Synthesis of chromeno[3,4-*b*]quinoline derivatives by heterogeneous [Cu(II)BHPPDAH] catalyst without being immobilized on any support under mild

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- "Rapid, Eco-friendly, and One-pot Synthesis of New Lariat Ethers Based on Anthraquinone by Using ZnO Nanoparticles via "Mannich" Reaction under Solvent-free Condition" H. Sharghi, A. Khoshnood, M. M. Doroodmand, R. Khalifeh J. Heterocycl. Chem. 2016, 53, 164.
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 Reza Khalifeh, Mahdiyeh Ghamari J. Braz. Chem. Soc. 2016, 27, 759.
- 35. "Generation of Cu nanoparticles on novel designed Fe₃O₄@SiO₂/EP.EN.EG as reusable nanocatalyst for the reduction of nitro compounds" Maryam Rajabzadeh, Hossein Eshghi, Reza Khalifeh, Mehdi Bakavoli *RSC Adv.* 2016, *6*, 19331.
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octahydroxanthenes" Keveh Parvanak Boroujeni, Zahra Heidari, **Reza Khalifeh** *Acta Chim. Slov.* **2016,** *63*, 602.

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- "On the properties and structure of 2-hydroxyethylammonium formate ionic liquid" S. M. Hosseini, M. M. Alavianmehr, A. Gutiérrez, R. Khalifeh, J. Moghadasi, S. Aparicio J. Mol. Liq. 2018, 249, 233.
- 39. "2-hydroxyethylammonium formate ionic liquid grafted magnetic nanoparticle as a novel heterogeneous catalyst for the synthesis of substituted imidazoles" Maryam Rajabzadeh, Hossein Eshghi, Reza Khalifeh, Mehdi Bakavoli Appl. Organomet. Chem. 2018, 32, e4052.
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- 41. "A facile hydrothermal synthesis of novel hollow triple-shelled CuNiFe₂O₄ nanospheres with robust catalytic performance in the Suzuki-Miyaura coupling reaction" Maryam Rajabzadeh, **Reza Khalifeh**, Hossein Eshghi, Mehdi Bakavoli *J. Catal.* 2018, *360*, 261.
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- 47. "Experimental and theoretical study of 2-hydroxyethylammonium formate ionic liquid + alcohol mixtures" M. M. Alavianmehr, S. Afshar, S. Aparicio, A. H. Haghani, S. M. Hosseini and **R. Khalifeh** *J. Mol. Liq.* 2019, 281, 269.
- 48. "Design and Synthesis of Novel Cage like CuFe₂O₄ Hollow Nanostructure as an Efficient Catalyst for Synthesis of 4, 4'-(aryl methylene) bis (3-methyl-1H-pyrazol-5-ol) s" **Reza Khalifeh**, Roghayeh Shahimoridi, Maryam Rajabzadeh *Catal. Lett.* **2019**, *149*, 2864.
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