

Ghodsieh Isapour

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Research interests

- **Catalysis**

Heterogeneous Catalysis:

- Synthesis, design and development of heterogeneous catalysts particularly for emission control, and the interplay between the catalytic material and the surface processes and reactions

Homogeneous catalysis:

- Investigation of Kumada cross coupling reactions using late transition metals complexes based on pincer type ligand (mostly Nickel pincer complexes)

- **Synthesis of nanomaterials**

- Applying various methods including sol-gel, microemulsion, precipitation, etc., for synthesizing nanoparticles, nanorods, nanopowders, quantum dots

- **Water and wastewater treatment**

- Development and application of Advanced Oxidation Processes for degradation of water and wastewater contaminants (pollutants: pesticides, pharmaceutical compounds, dyes, etc.)

Academic Background

- 2010-2013 Master of Science in Physical Chemistry from Kharazmi University, Tehran, Iran.
Thesis: Kinetics of Carbamazepine photodegradation in the presence of TiO₂ (P25) and synthesized TiO₂ and TiO₂-NiO photocatalysts by sol-gel method.
Supervisor: Dr. Alireza Harifi Mood
- 2006-2010 Bachelor of Science in Applied Chemistry from University of Tabriz, Tabriz, Iran.

Work Experience

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| 2018 (May)-2018
(November) | Research Assistant: Center for Analysis and Synthesis, Department of Chemistry, Lund University, Lund, Sweden.
Supervisor: Prof. Ola F. Wendt |
| 2013-2018 (April) | Research Assistant: Department of Chemistry, Islamic Azad University, Tabriz, Iran.
Supervisor: Dr. Mohammad Shokri |
| 2013-2018 (April) | Teaching Assistant: Department of Chemistry, Islamic Azad University, Tabriz, Iran. |

Publications

1. A Comparative Study of Photocatalytic Degradation of the Antibiotic Cefazolin by Suspended and Immobilized TiO₂ Nanoparticles, Mohammad Shokri, **Ghodsieh Isapour**, Mohammad A. Behnajady, Samaneh Dorosti, *Desalination and Water Treatment*, 57 (2016) 12874-12881.
2. Enhanced Photocatalytic Activity of Ag Doped ZnO Nanorods for Degradation of an Azo Dye, Mohammad Shokri, **Ghodsieh Isapour**, Mir Ghasem Hosseini, Qamar Zarbpoor, *Water Environment Research*, 88 (2016) 2001-2007.
3. Photocatalytic Degradation of Ceftriaxone in Aqueous Solutions by Immobilized TiO₂ and ZnO Nanoparticles: Investigating Operational Parameters, Mohammad Shokri, **Ghodsieh Isapour**, Saba Shamsvand, Behzad Kavousi, *Journal of Materials and Environmental Science*, 7 (8) (2016) 2843-2851.
4. Evaluating the Photodegradation of Carbamazepine Applying TiO₂ (P25) and Synthesized TiO₂ Nanoparticles via Sol-Gel Method, Alireza Harifi-Mood, **Ghodsieh Isapour**, Saeed Haghghi, *Inorganic and Nano-Metal Chemistry*, (**Under Revision**)

Skills

- **Work experiences with instruments**
 - Gas Chromatography (GC)
 - Gas Chromatography Mass Spectroscopy (GC/MS)
 - Nuclear Magnetic Resonance Spectroscopy (NMR)
 - Infrared-Spectroscopy (IR)
 - UV-Vis spectroscopy
 - Brunauer-Emmett-Teller (BET) analysis
 - Atomic Force Microscopy (AFM)
 - Glovebox

- **Familiar with software**

- Chem Office
- Chem Draw
- Origin

Conferences & Presentations

Kinetics of Carbamazepine photodegradation in the presence of TiO_2 and $\text{TiO}_2\text{-NiO}$ photocatalysts prepared by sol-gel method, **Ghodsieh Isapour**, Alireza Harifi Mood, Saeed Haghghi, *Fifteenth Nanotechnology Iranian Student Conference*, Tarbiat Modarres University, 24-25 April 2014, Tehran, Iran.

Language proficiency

- English (IELTS: 7) –Advanced
- Persian – Proficient (Bilingual)
- Azerbaijani–Proficient (Mother tongue)
- French– Elementary