Name: Zahra Aghasadeghi

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Education

BSc.

University: Zanjan
Major: Pure chemistry
Thesis: Synthesis and identification of new substituted polyoxometalates (POMs) in the removal of environmental pollutants
Supervisor: Dr. Mohammad Ali Rezvani

Msc.

University: Zanjan
Major: Nanochemistry
Thesis: Investigating of Water Oxidation Process using Manganese Nanoparticles Supported on Periodic Mesoporous Organosilicate Catalyst
Supervisor: Dr. Farhad Kabiri Esfahani - Dr. Babak Karimi

PhD

Thesis:
Supervisors:

Research Experience:

- A) Synthesis of new nanocomposites based on Mn nanoparticles to investigate the oxygen evolution reaction (OER) in the water oxidation process.
- B) Synthesis and characterization of polyoxometalate-based nanocomposites for the preparation of high-performance catalysts for oxidative desulfurization process.
- C) Synthesis of new nanocomposites to investigate electrochemical hydrogen storage capacity.

Publications:

1- Synthesis, characterization, and electrochemical evaluation of $SnFe_2O_4$@MWCNTs nanocomposite as a potential hydrogen storage material. *Heliyon*, 9(6).
2- Extractive–Oxidative Desulfurization of Real and Model Gasoline Using $(gly)_3H[SiW_{12}O_{40}]\subset CoFe_2O_4$ as a Recoverable and Efficient Nanocatalyst. *Energy&Fuels*, 37(3), 2245-2254.
3- Synthesis, characterization, and investigation of electrochemical hydrogen storage capacity in barium hexaferrite nanocomposite. *Journal of Alloys and Compounds*, 915, 165350.
4- High oxidation desulfurization of fuels catalyzed by vanadium-substituted phosphomolybdate@ polyaniline@ chitosan as an inorganic–organic hybrid nanocatalyst. *Inorganic Chemistry*, 62(14), 5468-5478.