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Education:

September 2014–present *University of Twente, Enschede, Netherlands*: Visiting student at MESA+ institute for nanotechnology.

2011–present *University of Tehran, Tehran, Iran*: Ph. D. in Inorganic nanomaterials-Nanochemistry.

2009–2011 *University of Kashan, Kashan, Iran*: M. Sc. in Nanochemistry.

2005–2009 *University of Mazandaran, Babolsar, Iran*: B. Sc. Applied chemistry.

Presentations at National Meetings (Posters):

- 1- 15th Physical Chemistry Conference, Tehran, 2012.
- 2- 15th Iranian Chemistry Congress, Hamedan, 2011.

Presentations at international Meetings (Posters):

- 5th International Congress on Nanoscience and Nanotechnology, Tehran, 2014.
- 4th international conference on Ultrafine Grained and Nanostructured Materials, Tehran, 2013.
- 4th International Congress on Nanoscience and Nanotechnology, Kashan, 2012.
- 3rd International Congress on Nanoscience and Nanotechnology, Shiraz, 2010.

Workshops:

- 1- 1st International workshop on nanostructured solar cells and solar systems.
- 2- Electrochemical identifying of solar cells.
- 3- Introduction and application of microwave sample preparation.
- 4- Application of thermal analysis.

Publications:

- 1- M. Salavati-Niasari, F. Davar, **H. Emadi**, Hierarchical nanostructured nickel sulfide architectures through simple hydrothermal method in the presence of thioglycolic acid, **Chalcogenide Letters**, 7 (2010) 647–655.
- 2- **H. Emadi**, M. Salavati-Niasari, F. Davar, Synthesis and characterization of cobalt sulfide nanocrystals in the presence of thioglycolic acid via a simple hydrothermal method, **Polyhedron**, 31 (2012) 438–442.

- 3- **H. Emadi**, M. Salavati-Niasari, F. Davar, Synthesis and characterisation of silver sulphide nanoparticles by ultrasonic method, **Micro & Nano Letters**, 6 (2011) 909–913.

- 4- M. Yousefi, M. Sabet, M. Salavati-Niasari, **H. Emadi**, Synthesis and characterization PbS and Bi₂S₃ nanostructures via microwave approach and investigation of their behaviors in solar cell, **Journal of Cluster Science**, 23 (2012) 511–525.

- 5- M. Mousavi-Kamazani, M. Salavati-Niasari, **H. Emadi**, Synthesis and characterization of CuInS₂ nanostructure by Ultrasonic-assisted method and different precursors, **Materials Research Bulletin**, 47 (2012) 3983–3990.

- 6- G. Kianpour, M. Salavati-Niasari, **H. Emadi**, Sonochemical synthesis and characterization of NiMoO₄ nanorods, **Ultrasonics Sonochemistry**, 20 (2013) 418–424.

- 7- M. Salavati-Niasari, M. Mousavi-Kamazani, **H. Emadi**, Preparation of stoichiometric CuInS₂ nanostructures by ultrasonic method, **Micro & Nano Letters**, 7 (2012) 896–900.

- 8- **H. Emadi**, Masoud Salavati-Niasari, Hydrothermal synthesis and characterization of lead sulfide nanocubes through simple hydrothermal method in the presence of [bis(salicylate)lead(II)] as a new precursor, **Superlattices and Microstructures**, 54 (2013) 118–127.

9- **H. Emadi**, Masoud Salavati-Niasari, Synthesis and characterization of samarium(III) and europium(III) complex encapsulated in the nanopores of zeolite-Y, **Main Group Chemistry**, 11 (2012) 299–310.

10- Masoud Salavati-Niasari, Ghazaleh Banaiean-Monfared, **H. Emadi**, Morteza Enhessari, Synthesis and characterization of nickel sulfide nanoparticles via cyclic microwave radiation, **Comptes Rendus Chimie**, 16 (2013) 929–936.

11- Ghazal Kianpour, Masoud Salavati-Niasari, **H. Emadi**, Precipitation synthesis and characterization of cobalt molybdates nanostructures, **Superlattices and Microstructures**, 58 (2013) 120–129.

12- **H. Emadi**, A. Nemati Kharat, Single source preparation of superparamagnetic Fe₃O₄ nanoparticles by simple cyclic microwave approach, **Materials Research Bulletin**, 48 (2013) 3994–4001.

13- S. Asgary, K. Mirabbaszadeh, P. Nayebi, **H. Emadi**, Controlled synthesis and optical properties of colloidal ternary TOPO-capped CuInS₂ nanocrystals, **Materials Research Bulletin**, 51 (2014) 411–417.

14- O. Amiri, **H. Emadi**, S. M. Hosseinpour-Mashkani, M. Sabet, M. Mohammadi Rad, Simple and Free surfactant synthesis and characterization of CdS/ZnS Core–Shell nanoparticles and

application in removal of heavy metals from aqueous solution, **RSC Advances**, 4 (2014) 10990–10996.

15- **H. Emadi**, A. Nemati Kharat, Synthesis and characterization of ultrafine and mesoporous structure of cobalt ferrite, **Journal of Industrial and Engineering Chemistry**, (accepted-**Article in press**).

Reviewer of the journals:

- 1- Materials Research Bulletin (Elsevier).
- 2- Journal of composite B (Elsevier).
- 3- Journal of Cluster Science (Springer).
- 4- Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry (Taylor & Francis).
- 5- Asia-Pacific Journal of Chemical Engineering (Wiley).

Research interests:

- 1- Synthesis and characterization of nanomaterials.
- 2- Synthesis of magnetic nanostructures.
- 3- Core@Shell nanostructures.
- 4- Application of nanostructures as catalyst and catalyst substrate.
- 5- MRI contrast agents.
- 6- Inorganic drug carrier.
- 7- Water splitting.
- 8- Solar to fuel cell.