

Vahid Yousefi

Nanoscience and Nanotechnology
(Nanochemistry)

Faculty of Science

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RESEARCH INTERESTS

- Surface modification of nanoparticles and nanostructures
- Organic-Inorganic hybrid material
- Synthesis of novel mesoporous silica
- Ionic Liquids
- Supramolecule Chemistry
- Design and Fabrication of nanocapsules by green materials
- Solid-state chemistry
- Layered double hydroxide
- Solid-phase microextraction
- Removal of dye and pollution

EDUCATION

2011 –2013

University of Maragheh

Maragheh, Iran

Master of Science, Nanoscience and Nanotechnology (Nanochemistry)

Thesis Title: *Synthesis and applications of nanostructured materials in analytical techniques for real samples analysis*

JOURNAL PUBLICATIONS

- Mir Mahdi Abolghasemi, Babak Karimi, Vahid Yousefi. **Periodic mesoporous organosilica with ionic liquid framework as a novel fiber coating for headspace solid-phase microextraction of polycyclic aromatic hydrocarbons.** (Accepted in *Analytica Chimica Acta*, ISSN: 0003-2670, Impact Factor : 4.38).
- Mir Mahdi Abolghasemi, Vahid Yousefi. **Polythiophene/hexagonally ordered silica nanocomposite coating as a solid-phase microextraction fiber for the determination of polycyclic aromatic hydrocarbons in water.** (Accepted in *Separation Science*, ISSN: 1615-9306, impact Factor : 2.59)
- Mir Mahdi Abolghasemi, Vahid Yousefi, Ezzat Rafiee. **Keggin-type heteropoly compounds supported on montmorillonite clays offering strong option for efficient solid-phase microextraction coating.** (Accepted in *Chromatography A*, ISSN: 0021-9673, Impact Factor : 4.61).
- Mir Mahdi Abolghasemi, Vahid Yousefi, Behzad Hazizadeh. **An inorganic–organic hybrid material based on ZnO nanoparticles anchored to a composite made from polythiophene and hexagonally ordered silica for use in solid-phase fiber microextraction of PAHs.** (Accepted in *Microchimica Acta*, ISSN: 0026-3672, Impact Factor : 3.48)
- Mir Mahdi Abolghasemi, Vahid Yousefi, Ezzat Rafiee. **Polyoxotungstate nanoclusters supported on silica as an efficient solid-phase microextraction fiber of polycyclic aromatic hydrocarbons.** (Accepted in *Microchimica Acta*, ISSN: 0026-3672, Impact Factor : 3.48)
- Mir Mahdi Abolghasemi, Vahid Yousefi. **Three dimensionally honeycomb layered double hydroxides framework as a novel fiber coating for headspace solid-phase microextraction of phenolic compounds.** (Accepted in *Chromatography A*, ISSN: 0021-9673, Impact Factor : 4.61).
- Mir Mahdi Abolghasemi, Sheyda Parastari, Vahid Yousefi. **Microextraction of phenolic compounds using a fiber coated with a polyaniline-montmorillonite nanocomposite.** (Accepted in *Microchimica Acta*, ISSN: 0026-3672, Impact Factor : 3.48).

- Mir Mahdi Abolghasemi, Sheyda Parastari, Vahid Yousefi. **Polypyrrole–montmorillonite nanocomposite as sorbent for solid-phase microextraction of phenolic compounds in water samples.** (Accepted in *Separation Science*, ISSN: 1615-9306, impact Factor : 2.59).
- Mir Mahdi Abolghasemi, Vahid Yousefi. **Fabrication of hierarchical dodecyl sulfate layered double hydroxide nanocomposite on porous aluminum wire as an efficient solid-phase microextraction coating** (Accepted in *Microchimica Acta*, ISSN: 0026-3672, Impact Factor : 3.48).
- Mir Mahdi Abolghasemi, Vahid Yousefi, Ezzat Rafiee. **Nanoscale - supported heteropoly acid as a new fiber coating for solid-phase microextraction coupled with gas chromatography-mass spectrometry.** (Accepted in *Chromatography A*, ISSN: 0021-9673, Impact Factor : 4.61).
- Mir Mahdi Abolghasemi, Vahid Yousefi. **Metal-organic framework /hexagonally ordered silica nanocomposite as a novel fiber coating for solid-phase microextraction.** (Accepted in *Separation Science*, ISSN: 1615-9306, impact Factor : 2.59).
- Mir Mahdi Abolghasemi, Vahid Yousefi. **Synthesis of Layered Double Hydroxide/Carbon Nanotube nanocomposite as a novel fiber coating for headspace solid-phase microextraction of phenols from water samples.** (Accepted in *Separation Science*, ISSN: 1615-9306, impact Factor : 2.59).
- Mir Mahdi Abolghasemi, Vahid Yousefi. **Growth of layered double hydroxide films on ordered nanoporous anodic Aluminum and application it as a novel fiber coating for headspace solid-phase microextraction of phenolic compounds** (Accepted in *of New journal of chemistry*, impact Factor : 3.19).
- Mir Mahdi Abolghasemi, Babak Karimi, Vahid Yousefi. **Ionic Liquid Derived Nano-Fibrillated Mesoporous Carbon based solid-phase microextraction fiber for analysis of volatile organic compounds from aqueous solutions** (Accepted in *New journal of Chemistry*, impact Factor : 3.19).
- Mir Mahdi Abolghasemi, Vahid Yousefi. **Double-charged ionic liquid-functionalized layered double hydroxide nanomaterial as a new fiber coating for solid-phase microextraction** (Accepted in *Microchimica Acta*, Impact Factor : 3.48)

- Reza Foroutani, Vahid Yousefi, Sahar Kangari. **Synthesis of polyaniline-magnetite hollow nanocomposite as a novel fiber coating for headspace solid-phase microextraction of benzene, toluene, ethylbenzene and xylenes from water samples** (Accepted in *Analytical Methods*, Impact Factor : 1.98).
- Mahdi Abolghasemi, Sheyda Parastari, Vahid Yousefi. **Nano-hydroxyapatite on highly ordered nanoporous anodized alumina wire for headspace solid-phase microextraction of phenolic compounds.** (Accepted in *Microchimica Acta*, Impact Factor : 3.48).
- Mir Mahdi Abolghasemi, Naser Arsalani, Vahid Yousefi, Mohmoud Arsalani, Marzieh Piryaei. **Fabrication of Polyaniline-coated halloysite nanotubes by in situ chemical polymerization as a solid-phase microextraction coating for the analysis of volatile organic compounds in aqueous solutions.** (Accepted in *Separation Science*, ISSN: 1615-9306, impact Factor : 2.59).
- Reza Foroutani, Vahid Yousefi, Sahar Kangari. **Synthesis of Carbon nanotube/magnetite nanocomposite as a novel fiber coating for headspace solid-phase microextraction of benzene, toluene, ethylbenzene and xylene** (Under review in *Chromatographia*).
- Reza Foroutani, Vahid Yousefi, Sahar Kangari. **Synthesis of humic acid/chitosan/poly(vinyl alcohol) nanocomposite hydrogel as an adsorbent for efficient removal of methylene blue from aqueous solution** (Under review in *Journal of Environmental Chemical Engineering*).
- Sahar Kangari, Vahid Yousefi, Reza Foroutani. **Surface modification of silica coated magnetic nanoparticles with covalently immobilized Dabco cation and silane groups for potential application as a novel heterogeneous acid catalyst** (Under preparation).
- Sahar Kangari, Vahid Yousefi. **Magnetic nanoparticles with covalently immobilized imidazole cation for potential application as a novel heterogeneous acid catalyst** (Under preparation).

TEACHING EXPERIENCES

Teacher Assistantship:

- Introduction of Nanochemistry (M.Sc.) / Tehran Institute of Technology-2013
- Supramolecules (M.Sc.) / Tehran Institute of Technology-2013

Reviewer

- Analytica Chimica Acta
- Journal of Environmental Analytical Chemistry
- Nanotechnology Science and Applications
- Reports in Organic Chemistry
- International Journal of Nanomedicine
- Journal of Physical Chemistry & Biophysics
- Iranian Journal of Chemistry and Chemical Engineering (IJCCE)
- International journal of environmental analytical chemistry
- Journal of Separation Science

SKILLS

➤ *Computer:*

- **Chemistry Software:** Chem Office, X'pert HighScore, Match!2, OPUS, MSD ChemStation, OMNIC, ACD ChemSketch, ChemDraw, MDI JADE
- **Simulation Software:** HyperChem
- **Other Software:** Microsoft Word, Power Point, Excel, Prezi, Google sketchup, Endnote, Photoshop, Digimizer, ImageJ

➤ *Language:*

- Persian: National
- Azeri: Native
- English: Fluent
- Turkish: Fluent
- Arabic: Fair

➤ *Expertise in working with:*

- Gas-Chromatography (Mass spectrometry and FID)
- Scanning microscopy electron (SEM)
- Fourier transform infrared spectroscopy (FTIR)
- Ultraviolet-visible spectrophotometry (UV-Vis)
- High-performance liquid chromatography (HPLC)

PROFESIONAL MEMBERSHIP

Iranian Chemical Society
Iran Nanotechnology Initiative Council

