

Curriculum Vitae A Brief Description

Alireza Farrokhi

Date of Birth: 1973

Place of Birth: Iran

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Ph.D: Inorganic Chemistry, 2009, Tarbiat Modares University, Tehran, Iran.

MSc: Inorganic Chemistry, 1998, Tarbiat Modares University, Tehran, Iran.

BSc: Chemistry, 1996, Tabriz University, Tabriz, Iran.



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Teaching Experience:

Inorganic Chemistry I & II (Used Texts: K. F. Purcell, J. C. Kotz, James E. Huheey, and etc.)

Organometallic Chemistry (Used Text: K. F. Purcell, J. C. Kotz and etc.)

Advanced Inorganic Chemistry

Thermodynamic and Kinetic of Inorganic Reactions

Inorganic Polymers

Structure and Bonding in Inorganic Chemistry

Crystallography

Chemical Application of Group Theory

Chemical Literatures

General Chemistry I & II (Used Text: S. S. Zumdahl and etc.)

Publications:

A: Seminars and Conferences

1- Synthesis, Characterization, and Crystal Structure of a New Supramolecular Metal Phosphonate, **Ali Reza Farrokhi**, Khodayar Gholivand, *17th Iranian Chemistry Congress* Vali-e-Asr University of Rafsanjan, 1-3 september 2014.

2- Synthesis and Structural Characterization of [$\{Cu(2,2'$ -bipy) $\}(VO_2)(PO_4)$] a 1D Organic-Inorganic Hybrid Material, **Ali Reza Farrokhi**, Khodayar Gholivand, *17th Iranian Chemistry Congress*, Vali-e-Asr University of Rafsanjan, 1-3 september **2014**.

3- Synthesis and catalytic activity of a novel nanomagnet carrying simple Mn-salen in aqueous oxidation of alcohols with n-Bu₄NHSO₅, Abdolreza Rezaeifard, Sousan Parvin, Maasoumeh Jafarpour and **Alireza Farrokhi**, *16th Iranian Inorganic Chemistry Conference*, 27-29 August, **2014**, Bu-Ali Sina University, Hamedan, Iran.

4- Enhanced epoxidation activity and stability of Mn-salen coordinatively anchored on nanomagnetite in water, A. Rezaeifard, S. Parvin, M. Jafarpour, **A. Farrokhi**, *16th Iranian Inorganic Chemistry Conference*, 27-29 August, **2014**, Bu-Ali Sina University, Hamedan, Iran.

5- The Electrochemical Behavior of Safranin O on the Surface of Glassy Carbon in the Presence and Absence of Fe^{+2} and Fe^{+3} Ions as a Probe for Photogalvanic Effect, H. Farsi, R. Rauph, **A. Farrokhi**, *18th Iranian Chemistry Congress*, Semnan University, Aug. 30 –Sept. 1, **2015**.

6- The Electrochemical Investigation of Safranin O as a synthetic Dye Photosensitizer for nano-TiO₂, H. Farsi, R. Rauph, **A. Farrokhi**, *18th Iranian Chemistry Congress*, Semnan University, Aug. 30 -Sept. 1, **2015**.

۷- چهار چوبهای آلی فلزی جدید مس II به عنوان یک کاتالیزور گزینش پذیر برای اکسایش الکلهای بنزلی، سیما آریانژاد، قدسیه باقر زاده، **علیرضا فرخی**، زهرا رضایی، نخستین سمینار شیمی کاربردی ایران، دانشگاه تبریز، شهریور ماه ۱۳۹۵.

۸- سنتز، شناسایی و بررسی اثر کاتالیزوری کمپلکس مس، با لیگاند شیف باز ((5 -پیریدین 2 ایل) متیلن آمینو2) و 6 - دی متیل سیکلوهگز 4 ان 1 و 3 - دی آن، سیما آریانژاد، قدسیه باقر زاد، **علیرضا فرخی**، سمانه یوسفی، نخستین سمینار شیمی کاربردی ایران، دانشگاه تبریز، ۱-۲ شهریور ماه ۱۳۹۵.

9- Oxygen evolution reaction catalyzed by vanadium containing nanosphere polyoxomolybdate, R. Mokhtari, A. Rezaeifard, M. Jafarpour, **A. Farrokhi**, *16th Iranian Inorganic Chemistry Conference*, 5-7 september **2017**, Chemistry and Chemical Engineering Research Center of Iran, Tehran.

10- Heterogeneous catalase-like activity of iron (III) based nanoball polyoxomolybdate, R. Mokhtari, A. Rezaeifard, M. Jafarpour, **A. Farrokhi**, *16th Iranian Inorganic Chemistry Conference*, 5-7 september **2017**, Chemistry and Chemical Engineering Research Center of Iran, Tehran.

11- Application of metal-organic frame work (MOF) as a very efficient sorbent for the separation and determination trace amount of anthracene in various real samples, Rouhollah Khani, Maryam Ghalibafan, **Alireza Farrokhi**, *25th Iranian Seminar of Analytical Chemistry*, 3-5 September **2018**, University of Tabriz, Tabriz.

B: Papers

1- Supramolecular Hydrogen-Bonded Frameworks from a New Bisphosphonic Acid and Transition Metal Ions, K. Gholivand, **A. Farrokhi**, *Z. Anorg. Allg. Chem.* **2011**, 637, 263-268.

2- Poly[$\{\mu_{10}-[(\text{phosphonomethyl})\text{iminodimethylene}] \text{ diphosphonato}\}$ dithallium(I)], K. Gholivand, **A. Farrokhi**, *Acta Cryst.* **2010**, E66, m873.

3- A Selective and Sustainable Sulfoxidation Method Catalyzed by Reusable Manganese (III) Schiff Base Complexes, A. Rezaeifard, M. Jafarpour, R. Haddad, **A. Farrokhi**, *Current Catalysis*, **2015**, 4, 4-11.

4- Enhanced aqueous oxidation activity and durability of simple manganese(III) salen complex axially anchored to maghemite nanoparticles, A. Rezaeifard, M. Jafarpour, **A. Farrokhi**, S. Parvin, F. Feizpour, *RSC Adv.*, **2016**, 6, 64640-64650.

5- Two new supramolecular metal diphosphonates: synthesis, characterization, crystal structure and inhibiting effects on metallic corrosion, K. Gholivand, R. Yaghoubi, **A. Farrokhi**, S. Khoddami, *J. Solid State Chem.*, **2016**, 243, 23-30.

- 6- A nanoscale Cu-metal organic framework with Schiff base ligand: synthesis, characterization and investigation catalytic activity in the oxidation of alcohols, S. Aryanejad, G. Bagherzade, **A. Farrokhi**, *Inorganic Chemistry Communications* **2017**, 81, 37-42.
- 7- Phosphonate-based Metal Organic Frameworks as Robust Heterogeneous Catalysts for TBHP Oxidation of Benzylic Alcohols, **A. Farrokhi**, M. Jafarpour, R. Najafzade, *Catal. Lett.*, **2017**, 147, 1714-1721.
- 8- Binary Complexes of Aspartic Acid with Some Metal Ions in Aqueous Solution and Water-dioxane Mixtures, E. Ghiamati, M. Baniasadi, **A. Farrokhi**, *Chemical Science International Journal*, **2017**, 19, 1-15.
- 9- Efficient and Recyclable of novel Ni-MOF nanostructures catalyzed the cascade reaction of alcohol oxidation-Knoevenagel condensation, S. Aryanejad, G. Bagherzade, **A. Farrokhi**, *Appl. Organometal. Chem.*, **2018**, 32, e3995.
- 10- Potentiometric and thermodynamic studies of some metal-cysteine complexes, E. Ghiamati, F. Shikhani, **A. Farrokhi**, *J. Chin. Chem. Soc.*, **2018**, 65, 217-224.
- 11- Magnetic Bisphosphonic Acid Nanohybrid Catalyzed Heterogeneous Synthesis of Heterocycles, **Alireza Farrokhi**, Maasoumeh Jafarpour, and Fahimeh Feizpour, *ChemistrySelect*, **2018**, 3, 1234-1241.
- 12- Visible-light driven catalase-like activity of blackberry-shaped $\{Mo_7Fe_{30}\}$ nanovesicles: combined kinetic and mechanistic studies, Rezvan Mokhtari, Abdolreza Rezaeifard, Maasoumeh Jafarpour and **Alireza Farrokhi**, *Catal. Sci. Technol.*, **2018**, 8, 4645-4656.
- 13- A Bisphosphonic Acid as a Heterogeneous Organocatalyst for the Synthesis of Bis(indolyl)methanes, **Alireza Farrokhi**, Maasoumeh Jafarpour, Fahimeh Feizpour, Reihaneh Najafzade, *Iranian Journal of Chemistry*, **2019**, 1, 39-46.
- 14- A Cooperative Effect in a Novel Bimetallic Mo-V Nanocomplex Catalyzed Selective Aerobic C-H Oxidation, Hasan Tavallaei, Maasoumeh Jafarpour, Fahimeh Feizpour, Abdolreza Rezaeifard, **Alireza Farrokhi**, *ACS Omega*, **2019**, 4, 3601-3610.
- 15- Degradation of hazardous organic dyes with solar-driven advanced oxidation process catalyzed by the mixed metal-organic frameworks, **A. Farrokhi**, F. Feizpour, M. Asaadzadeh, *Appl. Organometal. Chem.* **2019**, 33, e4928.
- 16- Solar-driven advanced oxidation process catalyzed by metal-organic frameworks for water depollution, **Alireza Farrokhi**, Maasoumeh Jafarpour and Mahbobeh Alipour, *Polyhedron*, **2019**, 170, 325-333.