



## Hossein Farsi

Associate Professor

Faculty: Science

Department: Chemistry

### Education

Degree	Graduated in	Major	University
BSc	1992	Chemistry	Sistan & Baluchestan
MSc	1995	Chemistry-Physical Chemistry	Sharif University of Technology
Ph.D	2007	Physical Chemistry-Electrochemistry	Sharif University of Technology

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
University of Birjand, Department of Chemistry	Faculty member	Tenured	Full Time	26

### Work Experience

---

--

### Awards

---

--

### Subjects Taught

---

--

## Executions And Scientific Activities

---

--

## Course Topics

---

--

## Competitions

---

--

## Workshops

---

--

## Conferences

---

--

## Journal Membership

---

--

## Papers in Conferences

---

1. حسین فرسی، سارا سلیمان زادگان، فاطمه ابراهیمی، مطالعه حلالیت چند ترکیب حلقوی درون میسل نانو اندازه ستیل تری متیل آمونیوم بر مایند به روش شبیه سازی دینامیک مولکولی، کنفرانس سالانه فیزیک ایران - دانشگاه بیرجند، شماره صفحات ۱۰۸۴-۱۰۸۷، بیرجند، ۲۰۱۳، ۲۶ ۰۸
2. در بستر  $ZnFe_{2-x}Ga_xO_4$  در نانوفریت Fe بجای Ga احمد امیرابادیزاده، حسین فرسی، مرتضی محمدزاده، اثر جانمایی. سلیکا، بیستمین همایش ملی بلورشناسی و کانی شناسی ایران، شماره صفحات ۱-۱۰، اهواز، ۲۰۱۳، ۳۰ ۰۱
3. محمدرضا دشت بیاض، حمزه شاهرجبیان، حسین فرسی، تهیه و بررسی خواص مکانیکی نانوکامپوزیت اپوکسی-. شماره صفحات ۱۴۳-۱۵۰، بابل، ۲۰۱۰، ۰۳ ۰۱ (ICME ۲۰۱۰)، آلمینا، دهمین کنفرانس ملی مهندسی ساخت و تولید
4. دومین همایش دانشجویی فناوری نانو، شماره صفحات ۱-۱۰، کاشان، ۲۰۰۷، ۰۹ ۰۵، Preparation of Ni nanowire by electrodeposition method into anodic aluminium oxide template (AAO)، (حسین فرسی، هادی عربی) انتقال.
5. ۱. The Energetic Study of Reduction Ni-W Catalysts and HDS Reaction of thiophen on them، دومین، سمینار شیمی فیزیک ایران، شماره صفحات ۱-۱۰، اصفهان، ۱۹۹۶، ۰۸ ۲۸
6. Hossein Farsi, Alireza Farrokhi, Reza Sarhaddi, Li Zhihai, Experimental and Theoretical Investigations of Electronic Structure, Electrochemical Properties and Antibacterial Activity of  $\square$ -Ag<sub>2</sub>MoO<sub>4</sub>, بیستمین سمینار، زاهدان، 09 03 2019, pp. 0-0, شیمی معدنی انجمن شیمی ایران
7. Hossein Farsi, Moghiminia Shokufeh, Manganese Vanadate/Graphene Oxide Nanocomposites as

- زاهدان, - pp. بیستمین سمینار شیمی معدنی انجمن شیمی ایران, High Energy Density Supercapacitor Materials, 09 03 2019,.
8. Hossein Farsi ,towards the electrochemical water splitting using nanostructured strontium Hexaferrite prepared by microemulsion method, سمنان, 30 08 2015, - pp. هجدهمین کنگره شیمی ایران.
  9. Hossein Farsi ,Preparation and Magnetic Properties of Nanostructured strontium Hexaferrite using microemulsion method, سمنان, 30 08 2015, - pp. هجدهمین کنگره شیمی ایران.
  10. Hossein Farsi,Alireza Farrokhi ,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, سمنان, 30 08 2015, pp. 637-637, هجدهمین کنگره شیمی ایران.
  11. Hossein Farsi,Alireza Farrokhi ,The Electrochemical Investigation of Safranin O as a synthetic Dye Photosensitizer for nano-TiO<sub>2</sub>, سمنان, 30 08 2015, pp. 638-638, هجدهمین کنگره شیمی ایران.
  12. Hossein Farsi ,Preparation and magnetic properties of nanostructured zinc ferrite using microemulsion method, بابلسر, 29 10 2013, pp. 1121-, شانزدهمین کنفرانس شیمی فیزیک ایران.
  13. Hossein Farsi ,Preparation and electrochemical characterization of nanostructured SrWO<sub>4</sub> for supercapacitor applications, یزد, 07 09 2013, - pp. شانزدهمین کنگره شیمی ایران دانشگاه یزد.
  14. Hossein Farsi ,Fabrication and electrochemical oxygen reduction study of platinum supported on nano-CawO<sub>4</sub>/graphite, یزد, 07 09 2013, - pp. شانزدهمین کنگره شیمی ایران دانشگاه یزد.
  15. Hossein Farsi ,A comparative electrochemical study of nanostructured Sb<sub>2</sub>O<sub>3</sub> and Sb<sub>2</sub>S<sub>3</sub>, یزد, 07 09 2013, - pp. شانزدهمین کنگره شیمی ایران دانشگاه یزد.
  16. Hossein Farsi ,Electrochemical properties Rhodamin B on the surface of glassy carbon and nanostructured titanium dioxide, یزد, 07 09 2013, - pp. شانزدهمین کنگره شیمی ایران دانشگاه یزد.
  17. Hossein Farsi,, ,Preparation and investigation of nanostructured zirconia, پانزدهمین سمینار شیمی, تهران, 03 09 2012, - pp. فیزیک ایران
  18. Hossein Farsi , ,Preparation and Magnetic Properties of Nanostructured Mn<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> in Silica Matrix, تهران, 03 09 2012, - pp. پانزدهمین سمینار شیمی فیزیک ایران.
  19. Hossein Farsi ,Perapration and Magnetic Properties of Nanostructured MN<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> in Silics Matrix, تهران, 03 09 2012, pp. 3136-3138, پانزدهمین سمینار شیمی فیزیک ایران.
  20. Hossein Farsi,Fatemeh Ebrahimi, ,The photocatalytic degradation of methylene blue on the surface of sol-gel prepared nanostructured ZnTiO<sub>3</sub> and Zn<sub>2</sub>TiO<sub>4</sub>, تهران, 03 09 2012, - pp. پانزدهمین سمینار شیمی فیزیک ایران.
  21. Hossein Farsi ,Preparation and investigation of hydrogen storage properties of Pd-Ni nano-alloys for fuel cells, تهران, 03 09 2012, - pp. پانزدهمین سمینار شیمی فیزیک ایران.
  22. Hossein Farsi , ,The effects of electrodeposition methods on the pseudocapacitive properties of nanostructured manganese oxide, تهران, 03 09 2012, - pp. پانزدهمین سمینار شیمی فیزیک ایران.
  23. Hossein Farsi,Fatemeh Ebrahimi ,Molecular Dynamics Simulation of Some Organic Compounds Solubilization into the Nanometric Core of CTAB micelle, تهران, 03 09 2012, - pp. پانزدهمین سمینار شیمی فیزیک ایران.
  24. Hossein Farsi ,Preparation and electrochemical capacitive behaviors of nanostructured molybdenum oxides, تهران, 03 09 2012, - pp. پانزدهمین سمینار شیمی فیزیک ایران.
  25. Hossein Farsi , ,The synergism between nanostructured CdS and CdO in photocatalytic degradation of methylene blue, تهران, 03 09 2012, - pp. پانزدهمین سمینار شیمی فیزیک ایران.
  26. Hossein Farsi ,The Electrochemical Studies of Sol Gel Prepared Nanostructured Nickel Titanate, تهران, 28 08 2012, - pp. چهاردهمین کنفرانس شیمی معدنی ایران.
  27. Hossein Farsi,Fatemeh Ebrahimi ,Synthesis and Characterization and Electrochemical Behaviors of Nanostructured Zinc Silicate and Zinc, تهران, 28 08 2012, - pp. چهاردهمین کنفرانس شیمی معدنی ایران.
  28. Hossein Farsi,, ,An artificial neural network simulator for magnetic properties of nanostructured ferrites, همدان, 04 09 2011, pp. 1091-1091, پانزدهمین کنگره شیمی ایران.
  29. Hossein Farsi ,Electrochemical studies of cobalt molybdate prepared by chemical precipitation method, کیش, 09 10 2010, pp. 249-249, ششمین سمینار سالانه الکتروشیمی ایران.
  30. Hossein Farsi ,The effects of LiClO<sub>4</sub> concentration on the electrochemical lithium intercalation into

- a nanostructured tungsten oxide, ششمین سمینار سالانه الکتروشیمی ایران, pp. 317-317, 09 10 2010, کیش.
31. 1, Electrochemical investigation of polypyrrole films prepared by potentiostatic electropolymerization, ششمین سمینار سالانه الکتروشیمی ایران, pp. 240-240, 09 10 2010, کیش.
32. Hossein Farsi, On the Effects of Electrolyte on the Capacitive Behavior of Nanostructured Molybdenum Oxides, سومین کنفرانس نانو ساختارها, pp. 713-717, 10 03 2010, کیش.
33. Hossein Farsi, On the Capacitive Behavior of Nanoparticulate Tungsten Oxide, دهمین کنفرانس شیمی, زاهدان, pp. - , 14 05 2008, معدنی ایران.
34. Hossein Farsi, Electrodeposition of nanostructured molybdenum oxide and its capacitive behavior, زاهدان, pp. - , 14 05 2008, دهمین کنفرانس شیمی معدنی ایران.
35. Hossein Farsi, The Study of Correlation between Surface Excess Critical Micelle Concentration and Minimum Surface Tension for Some Surfactants, چهارمین سمینار شیمی فیزیک, کیش, pp. - , 10 03 2001.
36. Hossein Farsi, Gopal Fereydoon, Mondegarian Rostam, Investigation and Preparation of Ni-W Catalysts for HDS, یازدهمین کنگره شیمی و مهندسی شیمی ایران, تهران, pp. - , 03 09 1996.

### Papers in Journals

1. Hossein Farsi, neda barekati, Alireza Farrokhi, Garren Horvath, Zhihai Li, Cobalt-organic framework as a Bi-functional electrocatalyst for renewable hydrogen production by electrochemical water splitting, Applications in Energy and Combustion Science, Vol. 3, No. 17, pp. 100240-100240, 2024, Scopus.
2. Hossein Farsi, Alireza Farrokhi, neda barekati, Li, Environmentally Benign Synthesis of Copper Benzenetricarboxylic Acid MOF as an Electrocatalyst for Overall Water Splitting and CO<sub>2</sub> Reduction, ECS Advances, Vol. 2, No. 1, pp. 20501-20501, 2022.
3. Reza Sarhaddi, Hossein Farsi, Alireza Farrokhi, Zhihai Li, Elucidating the electronic structures of  $\square$ -Ag<sub>2</sub>MoO<sub>4</sub> and Ag<sub>2</sub>O nanocrystals via theoretical and experimental approaches towards electrochemical water splitting and CO<sub>2</sub> reduction, Physical Chemistry Chemical Physics, Vol. 15, No. 23, pp. 9539-9552, 2021, JCR, Scopus.
4. Hossein Farsi, Alireza Farrokhi, Effects of water content on electrochemical capacitive behavior of nanostructured Cu<sub>3</sub>(BTC)<sub>2</sub> MOF prepared in aqueous solution, Electrochimica Acta, Vol. 137616, No. 368, pp. 1-12, 2021, JCR, Scopus.
5. Hossein Farsi, Nanostructured copper molybdates as promising bifunctional electrocatalysts for overall water splitting and CO<sub>2</sub> reduction, RSC Advances, Vol. 12, No. 10, pp. 39037-39048, 2020, ISI, JCR, Scopus.
6. Hossein Farsi, Shokufeh Moghiminia, Majid Raygan, Elahe Dana, Seyyedamirhossein Hosseini, Mitra Beforooz, Tykhon Zubkov, Ian V Lightcap, Zhihai Li, Nanostructured Tungstate-Derived Copper for Hydrogen Evolution Reaction and Electroreduction of CO<sub>2</sub> in Sodium Hydroxide Solutions, Journal of Physical Chemistry C, Vol. 42, No. 123, pp. 25941-25948, 2019, JCR, Scopus.
7. Hossein Farsi, Shokufeh Moghiminia, Andrew Riley, Zhihai Li, The effects of electrolyte on the capacitive behavior of nanostructured molybdenum oxides, JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, Vol. 12, No. 94, pp. 3800-3805, 2019, ISI, JCR, Scopus.
8. Hossein Farsi, Li Zhihai, Lightcap Ian V, Moghiminia Shokufeh, Peters Dennis G, Riley Andrew, Zubkov Tykhon, Nickel tungstate (NiWO<sub>4</sub>) nanoparticles/graphene composites preparation and photoelectrochemical applications, Semiconductor Science and Technology, Vol. 33, pp. 55008-55018, 2018, JCR, Scopus.
9. Hossein Farsi, Barzgari Zahra, Askari Seyede Zahra, Sunlight-induced photocatalytic activity of nanostructured calcium tungstate for methylene blue degradation, Research on Chemical Intermediates, Vol. 41, No. 8, pp. 5463-5474, 2015, JCR, Scopus.
10. Hossein Farsi, The Influence of Magnetic Field Direction and Amplitude in Direct Current-Field Annealing on the Magnetoimpedance of Co-Based Wires, Journal of Superconductivity and Novel Magnetism, Vol. 28, pp. 2441-2446, 2015, JCR, Scopus.
11. Hossein Farsi, Fatemeh Ebrahimi, Molecular dynamics simulation of some cyclic compounds

- solubilization into the nanometric core of Cetyltrimethylammonium Bromide micelle, *Journal of Molecular Structure*, Vol. 1079, pp. 494-501, 2014, JCR.Scopus.
12. Hossein Farsi, Synthesis characterization and electrochemical studies of nanostructured CaWO<sub>4</sub> as platinum support for oxygen reduction reaction, *Materials Research Bulletin*, Vol. 59, pp. 261-266, 2014, JCR.Scopus.
  13. Hossein Farsi, Chemical Synthesis of Nanostructured SrWO<sub>4</sub> for Electrochemical Energy Storage and Conversion Applications, *International Journal of Nanoscience*, Vol. 13, No. 2, pp. 1450013-1450013, 2014, Scopus.
  14. Hossein Farsi, Preparation characterization and electrochemical behaviors of Bi<sub>2</sub>O<sub>3</sub> nanoparticles dispersed in silica matrix, *Electrochimica Acta*, Vol. 148, pp. 93-103, 2014, JCR.Scopus.
  15. Hossein Farsi, Comparative optical and electrochemical studies of nanostructured NiTiO<sub>3</sub> and NiTiO<sub>3</sub>-TiO<sub>2</sub> prepared by a low temperature modified Sol-Gel route, *Electrochimica Acta*, Vol. 132, pp. 512-523, 2014, JCR.Scopus.
  16. Hossein Farsi, Quantum chemical studies on molecular conformations, energetic and intramolecular hydrogen bonding in ground and electronic excited state of (thioxosilyl) ethyleneselenol, *Journal of Sulfur Chemistry*, Vol. 2, No. 35, pp. 152-163, 2014, JCR.Scopus.
  17. Hossein Farsi, The electrochemical behaviors of methylene blue on the surface of nanostructured NiWO<sub>4</sub> by coprecipitation method, *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, Vol. 17, pp. 2079-2086, 2013, JCR.Scopus.
  18. Hossein Farsi, The lithiation studies of nanostructured tungsten oxide film prepared via electrochemical precipitation, *Ionics*, Vol. 19, pp. 1349-1357, 2013, JCR.Scopus.
  19. Hossein Farsi, THEORETICAL INVESTIGATION OF SUBSTITUTION EFFECT IN 3-MERCAPTO-PROPENETHIAL, *Journal of Theoretical and Computational Chemistry*, Vol. 12, pp. 1350045-1350078, 2013, JCR.Scopus.
  20. Hossein Farsi, Quantum chemical studies on molecular conformations energetic and intramolecular hydrogen bonding in ground and electronic excited state of (thioxosilyl) ethyleneselenol, *Journal of Sulfur Chemistry*, Vol. 35, pp. 152-163, 2013, JCR.Scopus.
  21. 1, A mathematical model of a nanoparticulated mixed oxides pseudocapacitor Part II The effects of intrinsic factors, *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, Vol. 15, pp. 115-123, 2011, JCR.Scopus.
  22. 1, Theoretical study of the effects of substitution solvation and structure on the interaction between nitriles and methanol, *International Journal of Quantum Chemistry*, Vol. 112, pp. 1273-1284, 2011, JCR.Scopus.
  23. Hossein Farsi, M. Dehghani, effect of substitutions of Zn for Mn on Sized and magnetic properties of Mn-Zn ferite nanoparticles, *Journal of Superconductivity and Novel Magnetism*, No. 11, pp. 1259-1263, 2011, JCR.Scopus.
  24. 1, The pH effects on the capacitive behavior of nanostructured molybdenum oxide, *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, Vol. 14, pp. 681-686, 2010, JCR.Scopus.
  25. 1, On the pseudocapacitive behavior of nanostructured molybdenum oxide, *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, Vol. 14, pp. 643-650, 2010, JCR.Scopus.
  26. 1, Intramolecular hydrogen bonding in 3-imino-propenylamine Theoretical investigations, *International Journal of Quantum Chemistry*, Vol. 109, pp. 1609-1616, 2009, JCR.Scopus.
  27. 1, Theoretical analysis of the performance of a model supercapacitor consisting of metal oxide nanoparticles, *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*, Vol. 11, pp. 1085-1092, 2007, JCR.Scopus.
  28. 1, An artificial neural network simulator for supercapacitors performance, *Computational Materials Science*, Vol. 39, pp. 678-683, 2007, JCR.Scopus.