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Education

- ✓ B.Sc, Applied Chemistry, Sistan and Baluchestan University - 2008
- ✓ MS, Applied Chemistry, Sistan and Baluchestan University - 2010
- ✓ PhD, Applied Chemistry, Sistan and Baluchestan University - 2015
- ✓ PhD, Applied Chemistry, Sistan and Baluchestan University - 2015

Courses

- | | |
|---|---|
| 1. zindustrial chemistry 2 | 2. Principles of Industrial Chemistry Calculations |
| 3. Corrosion of Metals | 4. reactors |
| 5. Device control in the chemistry in dustry | 6. Industerial Chemistry 1 |
| 7. Principles of Chemical Industries | 8. General Chemistry1 |
| 9. Instrumentational Process Control in Chemical Industry | 10. principles of industrial water and wastewater treatment |
| 11. Advanced Corrosion | 12. General Chemistry1 |
| 13. Industrial Chemistry2 | 14. Principles of Industrial Water and Wastewater Treatment |
| 15. Phenomenon Transfer Advanced | 16. Reactors |
| 17. Chemical Coating Methods | 18. Industerial Chemistry1 |

Thesis

Master Thesis

1. Synthesis of zeolite and its modification using metal oxides to remove rhodamine B pigment from aqueous medium

زهرا جهانگیری [Zahra Yavari, Afsaneh Shahriar, Hamideh Saravani, Ali Akbar Mirzaei, Alireza Nowroozi]
نیمسال دوم سال تحصیلی 1402-1403

2. Electro-deposition of palladium-based poly-metallic compounds and study of their catalytic activity towards electro-oxidation of alcohols

فاطمه اربابی [Zahra Yavari, Sabere Narooee, Hamideh Saravani, Ali Reza Modarresi Alam, Mashaallah Rahmani]
نیمسال دوم سال تحصیلی 1401

3. Extraction and application of Anabasis Setifera plant extract from Baluchistan region to reduce palladium as an anode catalyst for direct ethanol fuel cell

رامین هاشم زهی گونکی [Zahra Yavari, Nourallah Hazeri, Khatereh Abdi, Alireza Nowroozi]
نیمسال دوم سال تحصیلی 00-01

4. Utilization of porous silicon carbide and oxide as a support for noble metal electrocatalyst and study of its efficiency in the oxidation of organic compounds

هاله گنجعلی [Zahra Yavari, Fariba Kaedi]
نیمسال اول سال تحصیلی 00-01

Journals Papers

2026

1. Taguchi-based modeling of aflatoxin B1 and B2 in rice as a function of temperature and humidity

HOSSIN SANORI, Zahra Yavari

EUROPEAN FOOD RESEARCH AND TECHNOLOGY Volume: (252) 1 - 9

2025

2. Ethylene Glycol Electrooxidation on Phyto-synthesized Pd-Fe Composites by Aqueous Extract Plants

Fatemeh Rigi, Zahra Yavari, Fatemeh Arbabi

Electrocatalysis Volume: (16) 683 - 695

3. The Synergistic Effect of Iodide on the Inhibitory Activity of Agarose towards Iron Corrosion

Zohre Moradi, Zahra Yavari,

Volume: (36) 57 - 72

4. Optimizing surface adsorption of Congo red anionic dye on zinc oxide/carbon quantum dots composite by response surface method

Fahimeh Jami, Zahra Yavari, Hamideh Saravani

Volume: (19) 18 - 31

5. Green Chemistry Approach to Co₃O₄ Synthesis: A Suitable Candidate for Optoelectronics and Energy Storage Devices

Fariba Kaedi, Ali Reza Modarresi Alam, Zahra Yavari, Meissam Noroozifar

IRANIAN JOURNAL OF CHEMISTRY and CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION
Volume: (44) 2262 - 2273

6. Nanoarchitectonics of SiC/SiO₂ solid solution supported low-dimensional Pd catalyst for methanol oxidation

Hale Ganjali, Zahra Yavari, Fariba Kaedi, Mojtaba Bagherzadeh, ahmad abbasian

APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING Volume: (131) 1 - 14

7. Nanoarchitectonics preparation of NiO and α -Fe₂O₃ immobilized on ZSM-5 zeolite for adsorption and photodegradation of rhodamine B from aqueous media

Zahra Jahangiri, Zahra Yavari, Afsaneh Shahryar

NEW JOURNAL OF CHEMISTRY Volume: (49) 20980 - 20987

8. Adsorption of Methylene Blue on Lithium Titanate and its Composite with Carbon Dots: Optimization of Parameters and Adsorbent Recovery

Mohadeseh Bazzi, Zahra Yavari, Mehdi Shahbakhsh

Journal of Particle Science and Technology Volume: (11) 101 - 116

2023

9. Using inorganic precursors for producing electrocatalysts for formic acid electrooxidation

, Alireza Rezvani, Zahra Yavari, Michal Dusek, Vaclav Eigner

INORGANIC CHEMISTRY COMMUNICATIONS Volume: (153) 110780-1 - 110780-10

10. Transition metal oxides synthesized by self-sustaining combustion method as an accelerator to desorb produced intermediates during ethanol oxidation

Fariba Kaedi, Ali Vahabi, Simin Rahat dahmardeh, Zahra Yavari, Hamideh Saravani, Ahmad Reza Abbasian

Results in Chemistry Volume: (5) 100974-1 - 100974-12

11. Biosynthesis of Zinc Oxide Nanoparticles and Their Promoter Actions in the Application of Pd/ZnO Catalyst for Electro-Oxidation of Ethanol

Fatemeh Rigi, Zahra Yavari

CATALYSIS LETTERS Volume: (153) 3817 - 3828

12. Plant-mediated fabrication of cobalt oxide nanoparticles and evaluation of their catalytic effects on electro-oxidation of formaldehyde

Fatemeh Rigi, Zahra Yavari, Fariba Kaedi

JOURNAL OF THE CHINESE CHEMICAL SOCIETY Volume: (70) 1957 - 1964

13. Two different strategies for palladium reduction on spinel ZnMn₂O₄ micro-sponge: Application in the electrochemical oxidation of formaldehyde

Zahra Yavari, Fariba Kaedi, Mojtaba Farokhi, Ahmad Reza Abbasian

IRANIAN JOURNAL OF CHEMISTRY and CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION
Volume: (42) 2848 - 2860

14. Experimental and Computational Chemical Studies on the Corrosion Inhibition Performance of Two Antibiotics for Copper in Hydrochloric Acid Media

Maryam Dehdab, Mahdieh Darijani, Zahra Yavari

Iranian Journal of Oil and Gas Science and Technology Volume: (12) 86 - 104

2022

15. Stabilizing nano-Pd on porous Li₂TiO₃ via chemical and electrochemical reduction systems for the electrooxidation of ethylene glycol

Salehe Gomroki, Zahra Yavari, Ahmad Reza Abbasian, Mahdi Shafiee Afarani, Meissam Noroozifar

MATERIALS CHEMISTRY AND PHYSICS Volume: (281) 125896-1 - 125896-9

2021

16. Synergistic influence of mesoporous spinel nickel ferrite on the electrocatalytic activity of nanostructured palladium

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, , Kagan Kerman, Meissam Noroozifar

RSC Advances Volume: (11) 11813 - 11820

17. CH₃OH electrooxidation by nanosized Pd loaded on porous LaMnO₃

Zahra Yavari, , Roya Barjahri, Kagan Kerman, Meissam Noroozifar

Materials Today Chemistry Volume: (19) 100398-1 - 100398-9

18. Stoichiometry influence of oxide support on the catalytic efficiency of nano-palladium towards CH₃OH electrooxidation

Zahra Yavari, , Jilla Saffari, Kagan Kerman, Meissam Noroozifar

CHEMICAL PAPERS Volume: (75) 2317 - 2329

19. Nanoraspberry-like palladium/spongy nickel oxide for electrooxidation of five light fuels

Salehe Gomroki, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

International Journal of Applied Ceramic Technology Volume: (18) 2099 - 2110

2020

20. Synergistic influence of spongy ZnO on catalytic activity of nano-catalyst Pd toward electrooxidation of liquid fuels

Fariba Kaedi, Zahra Yavari, Mahdi Shafiee Afarani, Meissam Noroozifar

JOURNAL OF POROUS MATERIALS Volume: (27) 1203 - 1211

21. Nanosized palladium loaded on porous ceria: A three-dimensional boosted electrocatalyst for electrooxidation of C₁ compounds

Zahra Yavari, Zahra Ghahramani, Amir Masoud Arabi, Meissam Noroozifar

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (45) 21319 - 21330

22. A simple strategy to increase inhibitory activity of chitosan towards iron corrosion in acidic media

Zahra Yavari, , Hamideh Saravani, Meissam Noroozifar

INDIAN JOURNAL OF CHEMICAL TECHNOLOGY Volume: (27) 227 - 234

23. Electrooxidation of single-carbon molecules by nanostructured Pd-decorated spongy ceria

Zahra Yavari, Mahdi Shafiee Afarani, Amir Masoud Arabi, Meissam Noroozifar

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (37) 1669 - 1679

24. Nano-assembly Pd anchoring in the non-stoichiometric spongy zinc ferrite to catalyze the electro-oxidation of C₁ organic compounds

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Kagan Kerman, Meissam Noroozifar

CERAMICS INTERNATIONAL Volume: (46) 25741 - 25749

25. New Pd/Co-Ni electrocatalysts for formic acid electrooxidation and their fabrication from inorganic precursor [Co 0.14 Ni 1.86 (dipic) 2 (phen) 2 (H₂

, Alireza Rezvani, Zahra Yavari, Michal Dusek, Monika Kucerakova

DALTON TRANSACTIONS Volume: (49) 15864 - 15873

2019

26. Ethanol electrooxidation on high performance mesoporous ZnFe₂O₄ supported palladium nanoparticles

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

NEW JOURNAL OF CHEMISTRY Volume: (43) 3884 - 3890

27. Presentation of anodic electrocatalyst for polymeric fuel cell: Pt nanoparticles immobilized on NdFeO₃ nanocrystals and carbon nanotubes

Zahra Yavari, Meissam Noroozifar, Mozghan Khorasani-Motlagh

INDIAN JOURNAL OF CHEMICAL TECHNOLOGY Volume: (26) 9 - 22

2018

28. Promoted electrocatalytic ability of the Pd on doped Pt in NiO-MgO solid solution toward methanol and ethanol oxidation

Fariba Kaedi, Zahra Yavari, Meissam Noroozifar, Hamideh Saravani

JOURNAL OF ELECTROANALYTICAL CHEMISTRY Volume: (827) 204 - 212

29. Performance evaluation of anodic nano-catalyst for direct methanol alkaline fuel cell

Zahra Yavari, Meissam Noroozifar, Tayebe Parvizy

Environmental Progress and Sustainable Energy Volume: (37) 597 - 604

30. Catalyst Behavior Analyzed via General Regression Model with the Parameters Depending on a Covariate

Mohammad Hossein Dehghan, Zahra Yavari, Meissam Noroozifar

ACS Omega Volume: (3) 16795 - 16804

31. Comparative Theoretical and Experimental Studies on Corrosion Inhibition of Aluminum in Acidic Media by the Antibiotics Drugs

Zahra Yavari, Mahdieh Darijani,

Iranian Journal of Science and Technology Transaction A-Science Volume: (42) 1957 - 1967

2017

32. Inhibition of aluminum corrosion in acid solution by environmentally friendly antibacterial corrosion inhibitors Experimental and theoretical investigations

SayyedMostafa Habibi Khorassani, Mehdi Shahraki, Meissam Noroozifar, Mahdiah Darijani, , Zahra Yavar

Protection of Metals and Physical Chemistry of Surfaces Volume: (53) 579 - 590

33. Kinetic isotherm and thermodynamic studies with linear and non-linear fitting for cadmium(II) removal by black carbon of pine cone

Zahra Yavari, Meissam Noroozifar

WATER SCIENCE AND TECHNOLOGY Volume: (76) 2242 - 2253

34. SrFeO₃-sigma Assisting with Pd Nanoparticles on the Performance of Alcohols Catalytic Oxidation

Zahra Yavari, Meissam Noroozifar, Mahsa roodbaneh,

IRANIAN JOURNAL OF CHEMISTRY and CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION
Volume: (36) 21 - 37

2016

35. The inhibition of carbon-steel corrosion in seawater by streptomycin and tetracycline antibiotics An experimental and theoretical study

, Zahra Yavari, Mahdiah Darijani, Afshar Bargahi

DESALINATION Volume: (400) 7 - 17

36. Perovskite-Type LaFeO₃ and LaFeO₃-CNTs Nanocrystals as Active Anode for Methanol Oxidation in Alkaline Solutions

Mehri-Saddat Ekrami-Kakhki, Zahra Yavari, Jilla Saffari, Seyed Ali Ekrami-Kakhki

J. of Electrical Engineering Volume: (4) 88 - 99

37. Fabrication and performance evaluation of a novel membrane electrode assembly for DMFCs

Meissam Noroozifar, mojgan khorasani motlagh, Zahra Yavari, Tahereh Ghasemi, , Majid Mohammadi

RSC Advances Volume: (6) 563 - 574

2015

38. Multifunctional catalysts toward methanol oxidation in direct methanol fuel cell

Zahra Yavari, Meissam Noroozifar, Mozghan Khorasani-Motlagh

JOURNAL OF APPLIED ELECTROCHEMISTRY Volume: (45) 439 - 451

Conferences Papers

2025

1. Using Machine Learning to Determine Aflatoxin Level in Rice Based on Ambient Temperature and Relative Humidity

International Conference on Artificial Intelligence and Related Technologies

Zahra Yavari, Jalil Etminan, HOSSIN SANORI

2. Green Synthesis and Characterization of Zinc Oxide Nanoparticles

24th Iranian inorganic chemistry conference

Maryam Dehvari khas, Zahra Yavari, Fatemeh Rigi

3. Combustion Synthesis of NiCr₂O₄ Particles in the Presence of Different Fuels

24th Iranian inorganic chemistry conference

, Zahra Yavari, Mahdi Shafiee Afarani

2024

4. Electrooxidation of Formaldehyde Using Reduced Platinum Particles by Aqueous Extract of *Salsola* sp. Plant as the Catalyst

14th National Conference of Industrial Adsorbents and Catalysts

Fatemeh Rigi, Zahra Yavari, Fariba Kaedi

5. Electrochemical oxidation of ethanol with palladium catalyst supported on etched silicon oxide/silicon carbide

7th Iranian Applied Chemistry Conference

Hale Ganjali, Zahra Yavari, Fariba Kaedi

6. Investigating the adsorption isotherm of methanol on palladium catalyst during its electrochemical oxidation

7th Iranian Applied Chemistry Conference

Hale Ganjali, Zahra Yavari, Fariba Kaedi

2023

7. Extraction and application of *Anabasis Setifera* plant extract from Baluchistan region to reduce palladium as an anode catalyst for direct ethanol fuel cell

Ramin Hashemzahi goonaki, Zahra Yavari, Fatemeh Rigi

2022

8. کاتالیزور پالادیوم تقویت شده به وسیله نیتريد وانادیوم برای پیل سوختي غشاي پلیمري با کارايي بالا

1th acadec seminar of chemistry and clean energy

Amir Salari, Fariba Kaedi, Zahra Yavari

9. به منظور الکترواکسیداسیون متانول در پیل سوختی Pd / SiC / SiO₂ به کار گیری کاتالیزور

1th academic seminar of chemistry and clean energy

10. Vanadium carbide to boost Palladium as anodic catalyst for direct ethanol fuel cell

11th Iranian Fuel Cell Seminar

Amir Salari, Zahra Yavari, Fariba Kaedi, Ahmad Reza Abbasian

2021

11. الکترواکسایش اتانول در سطح الکتروکاتالیست پالادیوم-پلاتین تقویت شده با فریت منیزیم متخلخل

5th Iranian Applied Chemistry Seminar

Fariba Kaedi, Parisa Shahoozahi, Zahra Yavari, Ahmad Reza Abbasian

12. به عنوان بازدارنده (II,III) مطالعات تجربی روی عملکرد نانوکامپوزیت پلی آنیلین- اکسید آهن خوردگی آهن در اسید

5th Iranian Applied Chemistry Seminar

Zohre Moradi, Zahra Yavari, Farideh Paymozd, Ali Reza Modarresi Alam

13. اکسید مختلط نیکل مس به عنوان تقویت کننده فعالیت الکتروکاتالیستی فلزات نجیب برای الکترواکسایش اتیلن گلیکول

5th Iranian Applied Chemistry Seminar

Hanieh Amiranipoor, Fariba Kaedi, Zahra Yavari, Hamideh Saravani

2020

14. Effect of fuel type on CeO₂ foam support synthesized by solution combustion for modified of palladium particles toward ethanol electrooxidation

9th Iran International Conference on Materials Science Metallurgical Engineering (iMat2020)

Salehe Gomroki, Zahra Yavari, Mahdi Shafiee Afarani

15. Efficiency studies of multifunctions Pd-Co-SrCeCuO₃+delta nanocatalyst for ethanol electrooxidation

9th Iran International Conference on Materials Science Metallurgical Engineering (iMat2020)

Fariba Kaedi, Zahra Yavari, Mahbobeh Ahmadi nasab, Hamideh Saravani

16. A comparison on the presence of iron ions in spongy zinc oxide as a support for palladium nanocatalysts towards diethylene glycol electrooxidation

9th Iran International Conference on Materials Science Metallurgical Engineering (iMat2020)

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Mahdi Shafiee Afarani

17. Nanosized Co and Pd binary electrocatalyst loaded on Ce_{0.25}Sr_{1.75}NiO_{3.75} nanoparticles for ethanol electrooxidation

8th International Conference on Nanostructures (ICNS8)- Sharif

Zahra Yavari, Safiye Hashemzayee, Hamideh Saravani, Meissam Noroozifar

2019

18. Preparation and Characterization of SrCeCuO₃ and its Application Assisting with Pd and Co as Nano-Catalyst for Electrooxidation of Ethylene Glycol

Mahbobeh Ahmadi nasab, Zahra Yavari, Hamideh Saravani, Meissam Noroozifar

19. Ce_{0.25}Sr_{1.75}NiO_{3.75} Assisting with Pd and Co Nanoparticles: Synthesize, Characterization and Catalytic Potentiality for Ethylene Glycol Electrooxidation

Safiye Hashemzayee, Zahra Yavari, Hamideh Saravani, Meissam Noroozifar

20. Incorporated Palladium Nanoparticles on Mesoporous Zinc Ferrite as an Effective Catalyst for Ethanol Electrooxidation

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

21. Synthesis and characterization of meso-porous Ni₂FeO₄ with a novel combustion method: Application as support for Pd nanocatalyst

Fariba Kaedi, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

22. A Novel Combustion Method to Fabricate of Porous NiO: Application as Catalyst Support to Immobilize Palladium Nanoparticles for Methanol Electrooxidation

Salehe Gomroki, Zahra Yavari, Ahmad Reza Abbasian, Meissam Noroozifar

2018

23. Functionalization effect of carbon support on efficiency and durability of Pt electrocatalyst toward methanol oxidation

1st national conference on applied chemistry and nanochemistry

Zahra Yavari

Executive activities

مشاوره دانشجویان کارشناسی

from 1404/07/01 - to 1404/11/08

مشاوره دانشجویان کارشناسی

from 1403/11/06 - to 1404/04/06

مشاوره دانشجویان کارشناسی

from 1403/07/01 - to 1403/11/05

مشاوره دانشجویان کارشناسی

from 1402/11/21 - to 1403/04/04

مشاوره دانشجویان کارشناسی

from 1402/07/01 - to 1402/11/05

موظف‌ي حکم 1397/01/01

from 1396/11/07 - to 1397/04/01

Research Project

2023

1. Green synthesis of Pt and Cobalt oxide nanoparticles and their applications as catalysts in the elec

Fatemeh Rigi, Zahra Yavari, Fariba Kaedi - 2023

2019

2. Synthesize and characterization of mixed nickel cobalt oxide through transition metals complex and s

Alireza Rezvani, , Zahra Yavari - 2019