



Seyyed Hossein Zohdi

Associate Professor

Faculty : Engineering

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,
Iran.

Education

- ✓ B.Sc, Chemical Engineering - Heat Transfer in Separation, Sistan and Baluchestan University - 2008
- ✓ MS, chemical Engineering, Sistan and Baluchestan University - 2010
- ✓ PhD, chemical Engineering, Sistan and Baluchestan University - 2016
- ✓ PhD, chemical Engineering, Sistan and Baluchestan University - 2016

Courses

- | | |
|--|---|
| 1. Access conveyor chemical | 2. Melting Metal chemical Processes |
| 3. General chemistry in chemical engineering | 4. Physical chemistry in chemical engineering |
| 5. chemical kinetics and reactor design | 6. statistics and experimental design |
| 7. Advanced reactor design | 8. Engineering mathematics |
| 9. Chemical engineering thermodynamics I | 10. Engineering Mathematics |
| 11. Fluid mechanics | 12. Characterization and selection of devices |
| 13. Advanced chemical reactor | 14. Heterogeneous Catalysts |
| 15. training | 16. Conversion Gas Natural |

Thesis

1. Aspen plus

مينا صادقي بهمني [Seyyed Hossein Zohdi]

Master Thesis

1. study of operation parameters effect on water absorption capacity of glycol in natural gas dehydration case study NGL600

قاسم بالدي [Hamid Moghadam Deymeh, Seyyed Hossein Zohdi, Mir mohammad Khalilipour langroudi, Bahareh Bidar, Mohammad Reza Sardashti Birjandi, Pooria Akbarzadeh]

نیمسال دوم سال تحصیلی 00-01

Journals Papers

2025

1. Kinetic modeling of Fischer-Tropsch synthesis in the presence of Sn promoted Co/?-Al₂O₃ catalyst

Fereshte Pordeli, Seyyed Hossein Zohdi, Ali Akbar Mirzaei, Malihe Ghofranpakdel

BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING Volume: (42) 197 - 205

2023

2. Optimizing the Structure of Spherical ?-Alumina Granules Prepared by Oil Drop Method

Sroush Samak, Seyyed Hossein Zohdi, Mozghan Zakeri, , Malihe Ghofranpakdel

Volume: (21) 79 - 88

3. Deactivation of Iron Fischer-Tropsch Catalyst in the Presence of Different Promoters: Model Determination and Parameter Estimation Using a Hybrid ANN/GPLE Technique

Malihe Ghofranpakdel, Seyyed Hossein Zohdi, Ali Akbar Mirzaei

Physical Chemistry Research Volume: (11) 761 - 770

4. Feasibility Study on the Use of Mil-53Al) as a Support for Iron Catalyst in CO Hydrogenation Reaction

Fatemeh Shojaie, Seyyed Hossein Zohdi, Hossein Atashi, Ali Akbar Mirzaei

Journal of Particle Science and Technology Volume: (9) 43 - 49

5. در سنتز فیشر-تروپش Co/Al₂O₃ مدل سازی و بهینه سازی گزینش پذیری و فعالیت کاتالیست

Seyyed Hossein Zohdi, Somayeh Mansoori

Volume: (22) 26 - 38

6. گوگردزدایی اکسایشی نفتای سبک در حضور کاتالیست اکسید روی بر پایه زئولیت

Zahra Mobasheri, Seyyed Hossein Zohdi

Volume: (9) 59 - 68

7. A Comprehensive Review on Advantages and Issues of Nanotechnology in the Oxidative Desulfurization Method for the Production of Ultra-Clean Fuels

Zahra Mobasheri, Seyyed Hossein Zohdi

Journal of Gas Technology Volume: (7) 24 - 34

2022

8. Effect of mass transfer on the deactivation model and GPLE parameters of Co/?-Al₂O₃ catalysts in the Fischer Tropsch synthesis

Somayeh Mansoori, Seyyed Hossein Zohdi, Hossein Atashi, Malihe Ghofranpakdel, Ali Akbar Mirzaei

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (47) 32031 - 32038

9. Sensitivity analysis and selectivity optimization of Fischer Tropsch reaction over a Fe-Co bimetallic nanocatalyst

Amin Einbeigi, Hossein Atashi, Seyyed Hossein Zohdi, Ali Akbar Mirzaei,

INTERNATIONAL JOURNAL OF ENERGY RESEARCH Volume: (46) 16629 - 16642

2021

10. Investigating catalytic performance of Ag/Ce promoted Fe/Al₂O₃ catalyst in the CO hydrogenation process: Selectivity modeling and optimization using response surface methodology

Hanieh Zarin torang, Hossein Atashi, Seyyed Hossein Zohdi, Fereshteh Meshkani

INTERNATIONAL JOURNAL OF ENERGY RESEARCH Volume: (45) 14518 - 14529

2020

11. Effects of Reynolds and Froude dimensionless numbers on geometry of silica powders: simultaneous optimization using overall evaluation criteria technique

Sayed amir hosein Seyed mousavi, Seyyed Hossein Zohdi, Hossein Atashi, Farshad Farshchi Tabrizi

PARTICULATE SCIENCE AND TECHNOLOGY Volume: (38) 1027 - 1034

12. Proposing innovative modeling for Fischer-Tropsch synthesis product selectivity over Cobalt catalyst and skewness analyzing

, Davod Mohebbi Kalhori, Seyyed Hossein Zohdi, Ali Akbar Mirzaei, Hossein Atashi

PETROLEUM SCIENCE AND TECHNOLOGY Volume: (38) 411 - 419

2019

13. Neural Computing Strategy for Predicting Deactivation of Fischer-Tropsch Synthesis With Different Nickel Loadings

Malihe Ghofranpakdel, Hossein Zohdi Fasaei, Ali Akbar Mirzaei, Hossein Atashi

CATALYSIS LETTERS Volume: () 1 - 9

14. Deactivation Model for an Industrial γ -Alumina Supported Iron Catalyst in the Fischer Tropsch Synthesis

Malihe Ghofranpakdel, Hossein Atashi, Ali Akbar Mirzaei, Seyyed Hossein Zohdi

ChemistrySelect Volume: (4) 2064 - 2069

15. Effect of temperature on deactivation models of alumina supported iron catalyst during Fischer-Tropsch synthesis

Malihe Ghofranpakdel, Hossein Atashi, Seyyed Hossein Zohdi, Ali Akbar Mirzaei

PETROLEUM SCIENCE AND TECHNOLOGY Volume: (37) 500 - 505

16. Neural Computing Strategy for Predicting Deactivation of Fischer-Tropsch Synthesis With Different Nickel Loadings

Malihe Ghofranpakdel, Seyyed Hossein Zohdi, Ali Akbar Mirzaei, Hossein Atashi

CATALYSIS LETTERS Volume: (149) 2444 - 2452

17. Development of new comprehensive kinetic models for Fischer-Tropsch synthesis process over Fe-Co/ γ -Al₂O₃ nanocatalyst in a fixed-bed reactor

Amin Einbeigi, Hossein Atashi, Ali Akbar Mirzaei, Seyyed Hossein Zohdi, Somayeh Golestan

Journal of the Taiwan Institute of Chemical Engineers Volume: (103) 57 - 66

2018

18. Optimizing the Preparation Conditions of Silica Supported Fe-Co-Ce Ternary Catalyst for the Fixed-bed Fischer-Tropsch Synthesis Taguchi Experimental Design Approach

Maria Mohammadrazapour, Ali Akbar Mirzaei, Seyyed Hossein Zohdi

Physical Chemistry Research Volume: (2) 387 - 397

2017

19. Modeling and optimization of Fischer-Tropsch synthesis over Co-Mn-Ce/SiO₂ catalyst using hybrid RSM/LHHW approaches

Hossein Atashi, Farshad Farshchi Tabrizi, Ali Akbar Mirzaei, Hossein Zohdi Fasaee

ENERGY Volume: (128) 496 - 508

20. Two-level Full Factorial Design for Selectivity Modeling and Studying Simultaneous Effects of Temperature and Ethanol Concentration in Methanol Dehydration Reaction

Hossein Atashi, Seyyed Hossein Zohdi, Farshad Farshchi Tabrizi, Ali Akbar Mirzaei

Physical Chemistry Research Volume: (5) 41 - 56

2016

21. Effects of mass transfer on Fischer-Tropsch kinetics over mesoporous silica-supported Co Mn Ce nano catalysts in a fixed-bed reactor

Hossein Atashi, Farshad Farshchi Tabrizi, Ali Akbar Mirzaei, Hossein Zohdi Fasaee

Journal of Natural Gas Science and Engineering Volume: (32) 262 - 272

22. Exploiting the effects of catalyst geometric properties to boost the formation of light olefins in Fischer-Tropsch synthesis Statistical approach for simultaneous optimization

Hossein Zohdi Fasaee, Hossein Atashi, Farshad Farshchi Tabrizi, Ali Akbar Mirzaei

Journal of Natural Gas Science and Engineering Volume: (35) 1025 - 1031

Conferences Papers

2023

1. Synthesize of meso-porous active γ - Al_2O_3 adsorbent from a low-grade Zagros mountain range raw boehmite ore, using step-wise thermal and chemical processing methods; study parameters affecting adsorbent structural characteristics

The 12th International Chemical Engineering Congress Exhibition (ICChEC 2023)

Kosar Dinarvandi, Abdolreza Samimi, Davod Mohebbi Kalhori, Mozghan Zakeri, Seyyed Hossein Zohdi, Reyhaneh Zaker-Al-Hoseini

2022

2. The reliability evaluation of mechanical strength data of industrial catalysts using Weibull analysis

3rd Iranian Catalyst Conference

Mozghan Zakeri, Hamid Moghadam Deymeh, Seyyed Hossein Zohdi

2021

3. Effect of PVA additive on the structural properties of spherical Alumina catalyst support prepared by the oil drop method

2nd International Conference on: New Technologies in Oil, Gas and Petrochemical Industries

Sroush Samak, Fereshte Pordeli, Malihe Ghofranpakdel, Seyyed Hossein Zohdi