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Education

- ✓ B.Sc, Pure Chemistry, Ferdowsi University of Mashhad - 1984
- ✓ MS, Physical Chemistry, Tabriz University - 1990
- ✓ PhD, Physical Chemistry, University of Liverpool - 1998
- ✓ PhD, Physical Chemistry, University of Liverpool - 1998

Courses

- | | |
|---|---------------------------|
| 1. Molecular Spectroscopy | 2. Surfaced chemistry |
| 3. Kinetics of Reactions in the Solid State | 4. Heterogenous Catalysts |

Master Thesis

1. Kinetic Study of Fischer-Tropsch Reaction over Heterogeneous Metal-Organic (MOF) Nanocatalysts Supported by molded Alumina

مهدي شريفی نیک, [Ali Akbar Mirzaei, Ebrahim Mollashahi, Halime Kord-Tamandani]

نیمسال اول سال تحصیلی 1404-1405

2. Investigation of the Performance of Platinum Promoter on Heterogeneous Metal-Organic Nanocatalysts Supported by molded Alumina in Fischer-Tropsch Synthesis

محمدامین مقدم, [Ali Akbar Mirzaei, Ebrahim Mollashahi, Halime Kord-Tamandani]

نیمسال اول سال تحصیلی 1404-1405

3. Study of Heterogeneous Catalysts Deactivation Derived from Metal-Organic Frameworks (MOFs) Supported on Molded Alumina in Fischer-Tropsch Synthesis

میثم میرشکاری, [Ali Akbar Mirzaei, Ebrahim Mollashahi, Halime Kord-Tamandani]

نیمسال اول سال تحصیلی 1404-1405

4. Effect of iron catalyst synthesis method on deactivation models in Fischer-Tropsch synthesis

سمیه ابرومند, [Ali Akbar Mirzaei, Malihe Ghofranpakdel, Hamideh Saravani, Mehdi Shahraki, Niloufar Akbarzadeh- Torbati]

نیمسال اول سال تحصیلی 1403-1404

5. Ru (II), Fe (III), Co (II), Mn (II) and Cu (II) hexakis (urea) and tris (oxalato) complexes anchored on alumina, graphitic Carbon nitride (g-C₃N₄) and zirconia as precursors for designing new generatio

ساجر اورکی, [Ali Akbar Mirzaei, Hasan Hadad zadeh, Seyyed Hossein Zohdi]

نیمسال دوم سال تحصیلی 1403-1402

6. Exprimantal Investigation of the Mayenite Support on the Activity,Kinetic and Selectivity Models of Fischer tropsch Products in the Presence of Iron Catalyst

فاطمه هوشیار, [Seyyed Hossein Zohdi, Abdolreza Samimi, Ali Akbar Mirzaei]

نیمسال دوم سال تحصیلی 1403-1402

7. Kinetic study and reaction mechanism of Fischer-Tropsch synthesis in the presence of active and stable iron-based nanocatalysts derived from metal-organic frameworks

یعقوب نارویی, [Ali Akbar Mirzaei, Ebrahim Mollashahi, Seyyed Hossein Zohdi, Maryam Akbari]

نیمسال اول سال تحصیلی 1403-1402

8. Fischer-Tropsch synthesis on cobalt catalysts supported metal-organic frameworks (MOF)

علی رضا سرگلزانی, [Ali Akbar Mirzaei, Ebrahim Mollashahi, Maryam Akbari, Mehdi Shahraki, Ali Ebrahimi, Khaterreh Abdi]

نیمسال اول سال تحصیلی 1403-1402

9. Experimental study on the performance of Clinoptilolite as a support of cobalt catalyst in the Fischer Tropsch process

محمد زارعی, [Seyyed Hossein Zohdi, Jafar Sadeghi, Ali Akbar Mirzaei, Mozhgan Zakeri, Davod Mohebbi Kalhori, Hadi Bejari Valam]

نیمسال دوم سال تحصیلی 1401

10. preparation dihydropyridodipyrimidine-tetraone derivatives

بهناز شیبانی, [Ebrahim Mollashahi, Moheb Shirzaei, Ali Akbar Mirzaei, Ali Reza Modarresi Alam, Nourallah Hazeri, Khaterreh Abdi]

نیمسال اول سال تحصیلی 00-01

11. Preparation of catalysts based on iron oxide and cobalt oxide on carbon nitride g-C₃N₄, from iron and cobalt urea- hexa Complexes precursors and Evaluation of their catalytic activity for Fisher-Tropsch

ساعر اوركي, [Ali Akbar Mirzaei, Hasan Hadad zadeh, Ebrahim Mollashahi]

نیمسال اول سال تحصیلی 1399-1400

12. The kinetic and mechanism study of the Fischer Tropsch on the Co-Ag based on Al₂O₃ support in fixed bed reactor

حمید دهقان قصري, [Ali Akbar Mirzaei, Ebrahim Mollashahi, Nazanin Nikbakht]

نیمسال اول سال تحصیلی 1399-1400

13. experimental investigation of geometrical parameters for a modified alumina supported cobalt catalyst to boost the selectivity of light olefins in the fischer- tropsch synthesis

سروش سماك, [Seyyed Hossein Zohdi, Mozghan Zakeri, Ali Akbar Mirzaei]

نیمسال اول سال تحصیلی 1399-1400

14. kinetic modeling mechanism determination for co hydrogenation reaction over an industrial alumina supported modified nano-cobalt catalyst in a fixed-bed reactor

فرشته پردلي, [Seyyed Hossein Zohdi, Ali Akbar Mirzaei, Malihe Ghofranpakdel]

نیمسال اول سال تحصیلی 1399-1400

15. Development of a deactivation model for fischer - Tropsch reaction over Fe/sio₂ catalyst and investigating promoters effect on the curve skewness

محمد رياحین, [Davod Mohebbi Kalhori, Seyyed Hossein Zohdi, Ali Akbar Mirzaei]

نیمسال اول سال تحصیلی 1399-1400

16. Development of a deactivation model for fischer - Tropsch reaction over Fe/sio₂ catalyst and investigating promoters effect on the curve skewness

محمد رياحین, [Davod Mohebbi Kalhori, Seyyed Hossein Zohdi, Ali Akbar Mirzaei]

نیمسال دوم سال تحصیلی 1398-1399

17. Promoter effect on catalyst Ru / Al₂O₃ stability and determination of dependency of model parameters relative to the type of promoter in Fisher Tropsch synthesis.

ستار پروین, [Hossein Atashi, Seyyed Hossein Zohdi, Ali Akbar Mirzaei]

نیمسال اول سال تحصیلی 1398-1399

18. The new deactivation function for fischer - Tropsch reaction over Fe/sio₂ catalyst and investigating promoters effect on the curve skewness

محمد رياحین, [Davod Mohebbi Kalhori, Seyyed Hossein Zohdi, Ali Akbar Mirzaei]

نیمسال اول سال تحصیلی 1398-1399

19. Promoter effect on catalyst Ru / Al₂O₃ stability and determination of dependency of model parameters relative to the type of promoter in Fisher Tropsch synthesis.

ستار پروین, [Hossein Atashi, Seyyed Hossein Zohdi, Ali Akbar Mirzaei]

نیمسال دوم سال تحصیلی 1397-1398

20. ghfg

محمدرضا ارجمندي, [Ali Akbar Mirzaei, Ebrahim Mollashahi]

نیمسال دوم سال تحصیلی 1397-1398

21. Promoter effect on catalyst Ru / Al₂O₃ stability and determination of dependency of model parameters relative to the type of promoter in Fisher Tropsch synthesis.

ستار پروین, [Hossein Atashi, Seyyed Hossein Zohdi, Ali Akbar Mirzaei]

نیمسال اول سال تحصیلی 1397-1398

22. Promoter effect on catalyst Ru / Al₂O₃ stability and determination of dependency of model parameters relative to the type of promoter in Fisher Tropsch synthesis.

ستار پروين [Hossein Atashi, Seyyed Hossein Zohdi, Ali Akbar Mirzaei]

نیمسال دوم سال تحصیلی 95-96

Journals Papers

2026

1. Enhanced Fischer-Tropsch synthesis via hierarchical MOF-derived FeCo nanocatalysts: A MOF-on-MOF strategy

Mahmood Poodine, Ali Akbar Mirzaei, Ebrahim Mollashahi, , Ali Reza Oveisi

Molecular Catalysis Volume: (588) 1 - 16

2025

2. 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

3. Effects of Support Type on Stability of Nickel Catalysts in a Fixed-bed Reactor: Deactivation Modeling Using Hybrid ANN/GPLE Approaches

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

Physical Chemistry Research Volume: (13) 69 - 76

2024

4. Fischer-Tropsch to olefin reaction over Fe-based catalysts: Effect of preparation method and synergistic effect of Mn and Zr promoters

, Ali Akbar Mirzaei

Journal of the Taiwan Institute of Chemical Engineers Volume: (159) 105484-1 - 105484-22

5. Effects of surfactant and promoters on the catalytic performance of Co-catalysts supported on gamma-Al₂O₃ granules for Fischer-Tropsch synthesis

Halime Kord-Tamandani, Ali Akbar Mirzaei, Younes Ghalandarzahi, Seyyed Hossein Zohdi

South African Journal of Chemical Engineering Volume: (48) 156 - 166

2023

6. 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

7. Feasibility Study on the Use of Mil-53A1) 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

8. Significant improvement of catalytic performance for the Fischer-Tropsch synthesis over the cobalt catalysts supported on gamma-Al₂O₃ granules: simultaneous effects of glucose surfactant and promoter

Halime Kord-Tamandani, Ali Akbar Mirzaei, Seyyed Hossein Zohdi

CHEMICAL PAPERS Volume: (77) 7653 - 7668

2022

9. Effect of mass transfer on the deactivation model and GPLE parameters of Co/γ-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

10. 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

11. Effect of reduction and reaction conditions on the catalytic performance of Co-Ni/Al₂O₃ catalyst in CO hydrogenation: modeling of surface reaction rate

Ali Akbar Mirzaei, Mohammad Farahi,

CHEMICAL PAPERS Volume: (75) 2087 - 2103

12. A simple and low cost method for the synthesis of metallic cobalt nanoparticles without further reduction as an effective catalyst for Fischer-Tropsch Synthesis

, Ali Akbar Mirzaei, Rahbar Rahimi, Hossein Atashi

Reaction Kinetics Mechanisms and Catalysis Volume: (134) 127 - 141

13. Morphology Engineering of gamma-Alumina Microgranules as Support of Cobalt Catalysts Used for Fischer-Tropsch Synthesis: An Effective Strategy for Improving Catalytic Performance

, Ali Akbar Mirzaei, Hossein Atashi

Journal of Physical Chemistry C Volume: (125) 17718 - 17733

14. A MODELING STUDY OF OPERATING CONDITIONS AND DIFFERENT SUPPORTS ON Fe-Co-Ce NANOCATALYST AND OPTIMIZING OF LIGHT OLEFINS SELECTIVITY IN THE FISCHER-TROPSCH SYNTHESIS

Tahereh Taherzadeh Iari, Ali Akbar Mirzaei, Hossein Atashi, Hamid Reza Bozorgzadeh

Chemistry Chemical Technology Volume: (15) 170 - 182

15. Light Olefins Production in a Fixed Bed Reactor Using Alumina Supported Iron-Cobalt-Cerium Oxide Nanocatalysts Prepared by Impregnation Procedure: Effect of Preparation Conditions on Nanocatalyst Performance

Ali Akbar Mirzaei, Behdokht Hashemi Hosseini, sajad porgar

Biointerface Research in Applied Chemistry Volume: (11) 11592 - 11601

16. Assessment of composition and calcination parameters in Fischer-Tropsch synthesis over Fe-Mn-Ce/gamma-Al₂O₃ nanocatalyst

Reza Roknabadi, Ali Akbar Mirzaei, Hossein Atashi

Oil and Gas Science and Technology-Revue d IFP Energies nouvelles Volume: (76) 11-1 - 11-15

2020

17. Preparation of a Novel Active Fischer-Tropsch Co-Ni Catalyst Derived from Metal-Organic Framework

, Alireza Rezvani, Ali Akbar Mirzaei

PETROLEUM CHEMISTRY Volume: (60) 1059 - 1065

18. Microemulsion based synthesis of promoted Fe-Co/MgO nanocatalyst: Influence of calcination atmosphere on the physicochemical properties, activity and light olefins selectivity for hydrogenation of carbon monoxide

, Ali Akbar Mirzaei, Maryam Arsalanfar

MATERIALS CHEMISTRY AND PHYSICS Volume: () 123003-1 - 123003-12

19. Catalytic Behavior of Co/Al₂O₃ Nanocatalyst under External Magnetic Field

, amirhoseyn nikparsa, Ali Akbar Mirzaei

Physical Chemistry Research Volume: (8) 645 - 656

20. Fischer-Tropsch Synthesis on Fe-Co-Pt/gama-Al₂O₃ catalyst: A mass transfer, kinetic and mechanistic study

, Ali Akbar Mirzaei, Rahbar Rahimi, Hossein Atashi

KOREAN JOURNAL OF CHEMICAL ENGINEERING Volume: (37) 1699 - 1708

21. 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

22. Modeling and optimization of Fischer-Tropsch petroleum products on silica-cobalt catalyst in Fix bed reactor

Hossein Atashi, Kosar Dinarvandi, Hanieh Zarin torang, Ali Akbar Mirzaei

PETROLEUM SCIENCE AND TECHNOLOGY Volume: (38) 247 - 256

2019

23. Evaluation of Reverse Microemulsion Parameters Over the Catalytic Performance of Promoted Fe-Co Catalysts for the Production of Light Olefins from Syngas Using Box-Behnken Design

, Ali Akbar Mirzaei, Hossein Atashi

CATALYSIS LETTERS Volume: (149) 1305 - 1318

24. Pilot scale study of Co-Fe-Ni nanocatalyst for CO hydrogenation in Fischer-Tropsch synthesis

Hamhd reza Azizi, Ali Akbar Mirzaei, Raziye Sarani, Massoud Kaykhaii

Iranian Journal of Catalysis Volume: (9) 223 - 231

25. 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

26. 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

27. Effect of Ni-Co morphology on kinetics for Fischer-Tropsch reaction in a fixed-bed reactor

, Ali Akbar Mirzaei, Rahbar Rahimi, Hossein Atashi

Journal of the Taiwan Institute of Chemical Engineers Volume: (105) 104 - 114

28. The mechanism and kinetics study of Fischer-Tropsch reaction over iron-nickel-cerium nano-structure catalyst

Mahboube Abbasi, Ali Akbar Mirzaei, Hossein Atashi

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (44) 24667 - 24679

29. Hydrothermal synthesis of Fe-Ni-Ce nano-structure catalyst for Fischer-Tropsch synthesis: Characterization and catalytic performance

Mahboube Abbasi, Ali Akbar Mirzaei, Hossein Atashi

JOURNAL OF ALLOYS AND COMPOUNDS Volume: (799) 546 - 555

30. Correlation of metal-organic framework structures and catalytic performance in Fischer-Tropsch synthesis process

, Ali Akbar Mirzaei, Alireza Rezvani

Reaction Kinetics Mechanisms and Catalysis Volume: (128) 205 - 215

31. Synthesis of Fe-Co-Ce/Zeolite A-3 Catalysts and their Selectivity to Light Olefins for Fischer-Tropsch Synthesis in Fixed-Bed Reactor

, Ali Akbar Mirzaei,

CATALYSIS LETTERS Volume: (149) 522 - 532

32. 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

33. 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

2018

34. Effect of microemulsion parameters on product selectivity of MgO-supported ironcobaltmanganeseopotassium nanocatalyst for FischerTropsch synthesis using response surface methodology

, Ali Akbar Mirzaei, Hossein Atashi, Maryam Arsalanfar

Journal of the Taiwan Institute of Chemical Engineers Volume: (91) 396 - 404

35. DFT studies of hydrocarbon combustion on metal surfaces

Mina Arya, Ali Akbar Mirzaei, Abdol Mahmood Davarpanah, S. Masoud Barakati, Hossein Atashi, abas moh

JOURNAL OF MOLECULAR MODELING Volume: (24) 1 - 10

36. 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

37. The green fuel from carbon waste: optimization and product selectivity model studies

Hossein Atashi, Fatemeh Rezaeian, Ali Akbar Mirzaei

International Journal of Coal Science Technology Volume: (5) 399 - 410

38. Kinetic modeling of the Fischer-Tropsch reaction over a zeolite supported Fe-Co-Ce catalyst prepared using impregnation procedure

Nazanin Nikbakht, Ali Akbar Mirzaei, Hossein Atashi

FUEL Volume: (229) 209 - 216

39. Preparation of Iron-cobalt-cerium Heterogeneous Nano-catalysts to Produce Light Hydrocarbons from Synthesis Gas

Hesam Aldin Hashemzahi, Ali Akbar Mirzaei, Hossein Atashi,

Physical Chemistry Research Volume: (6) 785 - 794

2017

40. 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

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

Seyyed Hossein Zohdi, Hossein Atashi, , Ali Akbar Mirzaei

ENERGY Volume: (128) 496 - 508

42. Kinetic and mechanistic studies of Fischer-Tropsch synthesis over the nano-structured iron-cobalt-manganese catalyst prepared by hydrothermal procedure

Somayeh Golestan, Ali Akbar Mirzaei, Hossein Atashi

FUEL Volume: (200) 407 - 418

43. FischerTropsch Synthesis Effects of Aging Time and Operating Temperatures on Solvothermally Prepared Nanocatalyst for Light Olefin Selectivity

Tahereh Taherzadeh Iari, Ali Akbar Mirzaei, Hossein Atashi

CATALYSIS LETTERS Volume: (147) 1221 - 1234

44. FischerTropsch synthesis over an ironcobaltmanganese (ternary) nanocatalyst prepared by hydrothermal procedure Effects of nanocatalyst composition and operational conditions

Somayeh Golestan, Ali Akbar Mirzaei, Hossein Atashi

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (42) 9816 - 9830

45. Effects of Co/Ce molar ratio and operating temperature on nanocatalyst performance in the FischerTropsch synthesis

Tahereh Taherzadeh Iari, Ali Akbar Mirzaei, Hossein Atashi

RSC Advances Volume: (7) 34497 - 34507

46. Process conditions effects on FischerTropsch product selectivity Modeling and optimization through a time and cost-efficient scenario using a limited data size

, Hossein Atashi, Ali Akbar Mirzaei

Journal of the Taiwan Institute of Chemical Engineers Volume: (80) 709 - 719

47. The study of catalytic performance of silica-supported three metallic Fe-Co-Ce catalyst prepared using impregnation procedure for Fischer-Tropsch synthesis

Hesam Aldin Hashemzahi, Ali Akbar Mirzaei, Hossein Atashi, Fatemeh Rezaeian

PETROLEUM SCIENCE AND TECHNOLOGY Volume: (35) 2229 - 2234

48. Fischer-Tropsch synthesis over an iron-cobalt-manganese (ternary) nanocatalyst prepared by hydrothermal procedure: Effects of nanocatalyst composition and operational conditions

Somayeh Golestan, Ali Akbar Mirzaei, Hossein Atashi

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (42) 9816 - 9830

49. Effects of Co/Ce molar ratio and operating temperature on nanocatalyst performance in the Fischer-Tropsch synthesis

Tahereh Taherzadeh Iari, Ali Akbar Mirzaei, Hossein Atashi

RSC Advances Volume: (7) 34497 - 34507

2016

50. Preparation and characterization of a new cobalt hydrazone complex and its catalytic activity in the hydrogenation of carbon monoxide (Fischer-Tropsch synthesis)

Janani Halimeh, Alireza Rezvani, Ali Akbar Mirzaei

Reaction Kinetics Mechanisms and Catalysis Volume: (117) 189 - 203

51. Prediction of Fe-Co-Mn/MgO Catalytic Activity in Fischer-Tropsch Synthesis Using Nu-support Vector Regression

Ali Akbar Mirzaei, S. Masoud Barakati

Physical Chemistry Research Volume: (4) 391 - 405

52. Modification of Co/Al₂O₃ Fischer-Tropsch Nanocatalysts by Adding Ni: A Kinetic Approach

Ali Akbar Mirzaei, Reinhard Rauch

INTERNATIONAL JOURNAL OF CHEMICAL KINETICS Volume: (48) 131 - 143

53. Prediction of Fe-Co-Mn/MgO Catalytic Activity in Fischer-Tropsch Synthesis Using Nu-support Vector Regression

Ali Akbar Mirzaei, Somayeh Golestan, S. Masoud Barakati

Physical Chemistry Research Volume: (4) 391 - 405

54. 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 Fasayi, Hossein Atashi, Farshad Farshchi Tabrizi, Ali Akbar Mirzaei

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

55. Exploiting the effects of catalyst geometric properties to boost the

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

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

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

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

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

57. CO hydrogenation reaction over nano structured Fe-Ni-Mn catalyst: Kinetic and mechanistic studies

Somayeh Golestan, Ali Akbar Mirzaei, Hossein Atashi

Journal of Natural Gas Science and Engineering Volume: (37) 280 - 290

58. Influence of Fabrication Temperature and Time on light olefins selectivity of Iron-cobalt-cerium Mixed Oxide Nanocatalyst for CO hydrogenation

Tahereh Taherzadeh Iari, Ali Akbar Mirzaei, Hossein Atashi

INDUSTRIAL and ENGINEERING CHEMISTRY RESEARCH Volume: (55) 12991 - 13007

59. CO hydrogenation reaction over nano structured Fe-Ni-Mn catalyst Kinetic and mechanistic studies

Somayeh Golestan, Ali Akbar Mirzaei, Hossein Atashi

Journal of Natural Gas Science and Engineering Volume: (37) 280 - 290

2015

60. Impact of Na Promoter on Structural Properties and Catalytic Performance of CoNi/Al₂O₃ Nanocatalysts for the CO Hydrogenation Process: Fischer-Tropsch Technology

, Ali Akbar Mirzaei, Reinhard Rauch

CATALYSIS LETTERS Volume: (146) 61 - 71

61. Kinetics of the Fischer-Tropsch reaction in fixed-bed reactor over a nano-structured Fe-Co-Ce catalyst supported with SiO₂

, Ali Akbar Mirzaei, Hossein Atashi

Journal of Natural Gas Science and Engineering Volume: (26) 940 - 947

62. Kinetics modeling of Fischer-Tropsch synthesis on the unsupported Fe-Co-Ni (ternary) catalyst prepared using co-precipitation procedure

Ali Akbar Mirzaei, , Hamhd reza Azizi, ,

FUEL Volume: (140) 701 - 710

63. Fischer-Tropsch Synthesis of Hydrocarbons over New Co/Ce Bimetallic Catalysts Derived from Dipicolinate and Carbonyl Metal Complexes

janani halimeh, Alireza Rezvani, , Ali Akbar Mirzaei

Journal of Inorganic and Organometallic Polymers and Materials Volume: (25) 1169 - 1182

64. Study on the reaction mechanism and kinetics of CO hydrogenation on a fused Fe-Mn catalyst

Ali Akbar Mirzaei, , , Abdouss majid, ,

RSC Advances Volume: (5) 25284 - 25299

65. Kinetics of the Fischer-Tropsch reaction in fixed-bed reactor over

, Ali Akbar Mirzaei, Hossein Atashi

Journal of Natural Gas Science and Engineering Volume: (26) 940 - 947

66. How do the preparation methods impact the kinetic parameters of the two Co/Ni/Al₂O₃ nanocatalysts in Fischer-Tropsch process

, Ali Akbar Mirzaei, Hossein Atashi

MONATSHFTE FUR CHEMIE Volume: () 1935 - 1947

67. How do the preparation methods impact the kinetic parameters of the two Co/Ni/Al₂O₃ nanocatalysts in Fischer-Tropsch process

, Ali Akbar Mirzaei, Hossein Atashi

MONATSHFTE FUR CHEMIE Volume: (12) 1935 - 1947

68. Kinetics studies of fused Fe-Co-Mn (ternary) catalyst in Fischer Tropsch synthesis

, Ali Akbar Mirzaei, , , Hamhd reza Azizi,

Journal of Environmental Chemical Engineering Volume: (3) 2243 - 2252

69. A Neuro-Fuzzy Algorithm for Modeling of Fischer-Tropsch Synthesis over a Bimetallic Co/Ni/Al₂O₃ Catalyst

, Ali Akbar Mirzaei, , Hosein Jistan

Physical Chemistry Research Volume: (3) 78 - 88

2014

70. Effect of reaction conditions and Kinetic study on the Fischer-Tropsch synthesis over fused Co-Ni/Al₂O₃ catalyst

, Ali Akbar Mirzaei, Hossein Atashi

JOURNAL OF FUEL CHEMISTRY AND TECHNOLOGY Volume: (42) 710 - 718

71. Effect of calcination conditions on the structure and catalytic performance of MgO supported Fe-Co-Ni catalysts for CO hydrogenation

, , Ali Akbar Mirzaei

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

72. Solvent-free Preparation of 5-Aryloxytetrazoles via 2,3 Cycloaddition of Cyanates and Sodium Azide Using Silica Supported Sulfuric Acid as an Effective Heterogeneous Catalyst

, , , , Ali Reza Modarresi Alam, Alireza Rezvani, Ali Akbar Mirzaei, Malektaher Maghsoodlou

Chemistry of Heterocyclic Compounds Volume: () -

73. Study of syngas conversion to light olefins by statistical models

Mehdi Shiva, Hossein Atashi, Ali Akbar Mirzaei, ,

FUEL Volume: (123) 205 - 210

74. Effect of support and promoter on the catalytic performance and structural properties of the Fe-Co-Mn catalysts for Fischer-Tropsch synthesis

, Ali Akbar Mirzaei, , Abdolreza Samimi,

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY Volume: () 1313 - 1323

75. A Review of Fischer-Tropsch Synthesis on the Cobalt Based Catalysts

, Ali Akbar Mirzaei, , Abdolreza Samimi

Physical Chemistry Research Volume: (2) 179 - 201

76. Effect of support and promoter on the catalytic performance and structural properties of the Fe-Co-Mn catalysts for Fischer-Tropsch synthesis

, Ali Akbar Mirzaei, , ,

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