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Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2014 - Continues

Postgraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2011 - 2014

Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2005 - 2010

Dissertations

Postgraduate, Nano yapılı zirkonyum-oksit esaslı katalizörler ve alkol dönüşümlerindeki performansları, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2014

Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Chemical Reaction Engineering, Catalysis and Catalytic Processes

Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, 2011 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Tungstophosphoric acid incorporated hierarchical HZSM-5 catalysts for direct synthesis of dimethyl ether**
Karaman B., OKTAR N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.34793-34804, 2020 (Journal Indexed in SCI)
- II. **Bifunctional Silicotungstic Acid and Tungstophosphoric Acid Impregnated Cu-Zn-Al & Cu-Zn-Zr Catalysts for Dimethyl Ether Synthesis from Syngas**
PEKMEZCİ KARAMAN B., OKTAR N., Dogu G., DOĞU T.
CATALYSIS LETTERS, vol.150, no.9, pp.2744-2761, 2020 (Journal Indexed in SCI)
- III. **Performance comparison of mesoporous alumina supported Cu & Ni based catalysts in acetic acid reforming**
PEKMEZCİ KARAMAN B., Cakiryılmaz N., ARBAĞ H., OKTAR N., Dogu G., DOĞU T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.42, pp.26257-26269, 2017 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Destekli Nikel İçerikli Katalizörler ile Biyokütleden Hidrojen Üretimi Katalizör Destek Malzemelerinin ve Reaksiyon Sıcaklığının Etkileri**
Saleh A. I. , Ekinci E., Pekmezci Karaman B., Oktar N.
32. Ulusal Kimya Kongresi, Ankara, Turkey, 17 - 19 September 2020
- II. **Characterization and catalytic activity of Ni/mesoporous aluminosilicate HMS and Mo/mesoporous aluminosilicate HMS in the conversion of n-hexadecane**
Vassilina G., Umbetkaliyeva K., OKTAR N., PEKMEZCİ KARAMAN B., Vassilina T.
6th International Russian-Kazakhstan Conference on Chemical Technologies of Functional Materials, Almaty, Kazakhstan, 9 - 10 April 2020, vol.31, pp.580-583
- III. **Metanol dehidrasyon Katalizörünün Sentez Gazından Doğrudan Dimetil Eter Üretim Reaksiyonuna Etkisi**
PEKMEZCİ KARAMAN B., OKTAR N., SEZGİ N. A. , Doğu G., Doğu T.
UKMK 13, Turkey, 3 - 06 September 2018
- IV. **Direct Synthesis of Dimethyl Ether From Syngas Over Silicotungstic Acid Containing Catalyst**
ÇELİK M., PEKMEZCİ KARAMAN B., OKTAR N., DOĞU G., DOĞU T.
4th International Hydrogen Technologies Congress (IHTEC 2019), 20 - 23 June 2019
- V. **Direct Synthesis of Dimethyl Ether on TPA Incorporated HZSM-5 Zeolites**
PEKMEZCİ KARAMAN B., OKTAR N., DOĞU G., DOĞU T.
4th International Hydrogen Technologies Congress (IHTEC 2019), 20 - 23 June 2019
- VI. **Temperature Effect on Methanol Synthesis from Syngas over Cu-Zn Based Catalyst**
PEKMEZCİ KARAMAN B., OKTAR N., Doğu G., SEZGİ N. A. , Doğu T.
EMCC 9, 31 August - 02 September 2018
- VII. **Direct Synthesis of Dimethyl Ether from Syngas over SBA-15: Effect of STA Incorporation onto Product Distribution**
ÇELİK M., PEKMEZCİ KARAMAN B., OKTAR N., DOĞU G., DOĞU T.
9th Eastern Mediterranean Chemical Engineering Conference (EMCC9), 31 August - 02 September 2018
- VIII. **Copper-Zinc Based Bifunctional Catalysts Containing Zirconia and Alumina Promoters for Methanol Synthesis**
PEKMEZCİ KARAMAN B., OKTAR N., SEZGİ N. A. , Doğu G., Doğu T.
International Congress on Engineering and Life Science, 26 - 29 April 2018
- IX. **Performance of Ni Incorporated Silica and Alumina Based Catalysts in Hydrogen Production from Biomass**
PEKMEZCİ KARAMAN B., Çakıryılmaz N., OKTAR N., ARBAĞ H., Dogu G., Doğu T.
The third international hydrogen technologies congress (IHTEC-2018), Alanya, Turkey, 15 - 18 March 2018
- X. **Performance of TPA Incorporated Cu-Zn based Catalysts in Dimethyl Ether and Methanol Synthesis from Syngas**
PEKMEZCİ KARAMAN B., OKTAR N., SEZGİ N. A. , GÜLŞEN D., TİMUR D.
The Porous and Powder Materials Symposium and Exhibitions (PPM 2017), 12 - 15 September 2017
- XI. **Bio-based Hydrogen by Steam Reforming of Bio-Acetic Acid over Mesoporous Alumina Based Catalysts**
PEKMEZCİ KARAMAN B., ARBAĞ H., OKTAR N., Dogu G., Doğu T.
International Symposium on Green Chemistry 2017 (ISGC 2017), France, 16 - 19 May 2017
- XII. **Compasion of Silica and Alumina Based Catalysis in Hydrogen Production from Biomass**
PEKMEZCİ B., ÇAKIRYILMAZ N., ARBAĞ H., OKTAR N., Doğu G., Doğu T.
The Second International Hydrogen Technologies Congress (IHTEC-2017), Adana, Turkey, 15 - 18 March 2017
- XIII. **Hydrogen Production by Steam Reforming of Acetic Acid in the Presence of Ni Containing Catalysts**
PEKMEZCİ B., ÇAKIRYILMAZ N., ARBAĞ H., OKTAR N., DOĞU G., DOĞU T.
22nd International Congress of Chemical and Process Engineering CHISA 2016, PRAG, Czech Republic, 27 - 31 August 2016
- XIV. **Doğrudan Sentez Gazından DME Methanol Üretimi**

- Erkal D., PEKMEZCİ B., OKTAR N., Dogu G., SEZGİ N. A. , Dogu T.
UKMK 12, İzmir, Turkey, 23 - 26 August 2016
- XV. **Sentez Gazından Dimetil Eter DME Metanol Üretimi**
ERKAL D., PEKMEZCİ B., OKTAR N., DOĞU G., SEZGİ N. A. , DOĞU T.
12. ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 23 - 26 August 2016
- XVI. **Effects Of Synthesis Route And Calcination Temperature On Structural And Acidic Properties Of Mesoporous Al₂O₃**
ERKAL D., PEKMEZCİ B., OKTAR N., DOĞU G., SEZGİ N. A. , DOĞU T.
NCC6 - 6th Catalysis Conference, Bursa, Turkey, 27 - 30 April 2016
- XVII. **Steam Reforming Of Acetic Acid With Hifuel R 120 Catalyst**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Dogu G., Dogu T.
World Hydrogen Energy Conference, WHEC-Zaragoza, Zaragoza, Spain, 13 - 16 June 2016
- XVIII. **Steam Reforming of Acetic Acid Over Alumina Based Catalysts**
PEKMEZCİ B., ÇAKIRYILMAZ N., ARBAĞ H., OKTAR N., DOĞU G., DOĞU T.
WORLD HYDROGEN ENERGY CONFERENCE, Zaragoza, Spain, 13 - 16 June 2016
- XIX. **Effects of Synthesis Route and Calcination Temperature on Structural and Acidic Properties of Mesoporous Al₂O₃**
Erkal D., PEKMEZCİ B., OKTAR N., Dogu G., SEZGİ N. A. , Dogu T.
The 6th Catalysis Conference (NCC6), Bursa, Turkey, 27 April - 30 June 2016
- XX. **Ni Incorporated Ceria Zirconia Catalysts by Complexation Method for Ethanol Dry Reforming**
PEKMEZCİ B., DOĞU G., DOĞU T.
International Porous and Powder Materials Symposium and Exhibition, 15 - 18 September 2015
- XXI. **Hifuel 120 Katalizörlüğünde Asetik Asitin Buharlı Reformlanma Reaksiyonu**
PEKMEZCİ B., ARBAĞ H., OKTAR N., gülşen d.
27. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XXII. **Hifuel 120 Ticari Katalizörü İle Asetik Asitin Buharlı Reformlanma Reaksiyonu**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 September - 28 August 2015, pp.829
- XXIII. **Comparison of Membrane and Fixed Bed Reactor Performances of Ni W Mesoporous Alumina Catalysts in Dry Reforming of Methane**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Doğu G.
12th Conference on Gas-Liquid Gas-Liquid-Solid Reactor Engineering (GLS12), New York, United States Of America, 28 June - 01 July 2015
- XXIV. **Ni Incorporated ZrCeO₂ Catalysts Prepared by the Complexation Technique for Dry Reforming of Ethanol**
PEKMEZCİ B., DOĞU T., DOĞU G.
Turkish - German Conference on Energy Technologies, 13 - 15 October 2014
- XXV. **Synthesis Gas Through Dry Reforming of Methane over Mesoporous Alumina and MCM 41 Supported Ni Catalysts**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Doğu G.
Turkish-German Conference on Energy Technologies, Ankara, Turkey, 13 - 15 October 2014
- XXVI. **Seryum Zirkonyum İçerikli Katalizörlerin Kompleksleştirme Yöntemi ile Sentezi ve Etanol Kuru Reformlanma Reaksiyonundaki Performanslar**
PEKMEZCİ B., DOĞU G., DOĞU T.
11. Ulusal Kimya Mühendisliği Kongresi, Turkey, 2 - 05 September 2014
- XXVII. **From Bio Waste to Synthesis Gas through Dry Reforming of Methane over W Enhanced Mesoporous Ni Alumina Catalysts**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Doğu G.
EurAsia Waste Management Symposium 2014, İstanbul, Turkey, 28 - 30 April 2014
- XXVIII. **Ce or Fe Incorporated Zirconia By Complexation Method For Dimethyl Carbonate Reaction**
PEKMEZCİ B., DOĞU T., DOĞU G.

- International Porous and Powder Materials Symposium and Exhibition, PPM 2013, 3 - 06 September 2013
- XXIX. **Mesoporous Titania Zirconia and Alumina Supported Nickel Catalysts for Dry Reforming of Methane**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Doğu G.
Porous Powder Materials Symposium Exhibition 2013, İzmir/Çeşme, Turkey, 3 - 06 September 2013
- XXX. **Mesoporous Zirconia Supported Nickel Catalysts for Coke Minimization in Dry Reforming of Methane**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Doğu G.
CleanTech World 2013, Washington, Kiribati, 12 - 16 May 2013
- XXXI. **Kompleksleştirme Yöntemiyle Zirkonyum Seryum ve Zirkonyum Demir İçerikli Katalizör Sentezi**
PEKMEZCİ B., DOĞU T., DOĞU G.
10, Ulusal Kimya Mühendisliği Kongresi, Turkey, 3 - 05 September 2012
- XXXII. **MCM 41 Supported Cobalt Catalysts for Dry Reforming of Methane**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Doğu G.
6th Chemical Engineering Conference for Colaborative Research in Eastern Mediterranean Countries (EMCC-6),
Antalya, Turkey, 7 - 12 May 2010
- XXXIII. **CO2 Reforming of Methane Over Nickel Rhodium Incorporated MCM 41 Type Catalysts**
PEKMEZCİ B., Çakıryılmaz N., ARBAĞ H., OKTAR N., Doğu G.
2nd International Green Process Engineering Congress (GPE2009), Venedik, 14 - 17 June 2009

Citations

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