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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 2018 - Continues
Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 2015 - 2018
Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 2009 - 2015

Research Areas

Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Process intensification methods in steam reforming of ethanol with nickel impregnated mesoporous carbon: Microwave heating and sorption enhanced reforming**
Sarıyer M., Sezgi N. A., Doğu T.
International Journal of Hydrogen Energy, vol.67, pp.912-924, 2024 (SCI-Expanded)
II. **Performance comparison of microwave and conventionally heated reactors for sorption enhanced reforming of ethanol over Ni impregnated SBA-15**
Sarıyer M., Bozdag A. A., Sezgi N. A., Doğu T.
CHEMICAL ENGINEERING JOURNAL, vol.377, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Steam Reforming of Ethanol with Nickel Impregnated Silica Aerogel**
Sarıyer M., Sezgi N. A., Doğu T.
NCC8-National Catalysis Congress, Ankara, Turkey, 9 - 12 September 2021
II. **The Effect of Synthesis Parameters for the Mesoporous Carbons Using Silica Aerogel Templates**

SARIYER M., SEZGİ N. A., Doğu T.
2019 MRS Spring Meeting and Exhibit, Phoenix, United States Of America, 22 - 26 April 2019

III. **Comparison of Performances of Microwave and Conventionally Heated Reactors in Sorption Enhanced Reforming of Ethanol over Ni Incorporated Meesoporous Catalysts**
Sarıyer M., Sezgi N. A., Doğu T.
XXIX Interamerican Congress of Chemical Engineering Incorporating the 68th Canadian Chemical Engineering Conference, Ontario, Canada, 28 - 31 October 2018

IV. **Etanolün Adsorpsiyon Destekli Reformlanmasına Katalizör ve Sorbent Sıralamasının Etkisi**
SARIYER M., SEZGİ N. A., Doğu T.
UKMK 13, Turkey, 3 - 06 September 2018

V. **The Effect of Divided Section Packing Concept on Hydrogen Purity in Sorption Enhanced Steam Reforming of Ethanol**
SARIYER M., SEZGİ N. A., Doğu T.
EMCC 9, 31 August - 02 September 2018

VI. **Performances of Microwave and Conventionally Heated Reactors in Sorption Enhanced Reforming of Ethanol over Ni Impregnated SBA-15**
Sarıyer M., Arslan Bozdağ A., Sezgi N. A., Doğu T.
ISCRE 25, Florence, Italy, 20 - 23 May 2018

VII. **Effect of Nickel impregnated CatalystSupports on Hydrogen Yield in the Ethanol Steam Reforming Reaction**
SARIYER M., SEZGİ N. A., Doğu T.
4th Anatolian School of Catalysis, 11 - 14 September 2017

VIII. **Sorption Enhanced Steam Reforming of Ethanol with Ceria-SBA-15 Supported Nickel Catalysts**
SARIYER M., ARSLAN BOZDAĞ A., SEZGİ N. A., Doğu T.
2ndInternational Hydrogen Technologies Congress, 15 - 18 March 2017

IX. **Ni SBA 15 Katalizörü Üzerinde Adsorpsiyon Destekli Buharlı Etanol Reformlanmanın Elektrik Isıtmalı ve Mikrodalga Reaktörde İncelenmesi**
SARIYER M., ARSLAN BOZDAĞ A., SEZGİ N. A., Doğu T.
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016

X. **Sorption Enhanced Steam Reforming of Ethanol Over Ni Impregnated SBA 15 Catalys**
SARIYER M., ARSLAN BOZDAĞ A., SEZGİ N. A., Doğu T.
The 6 th Catalysis Conference, Turkey, 27 - 30 April 2016

XI. **Effect of metal incorporation on the structural properties of SBA 15**
SARIYER M., Aslan A., SEZGİ N. A., Dogu T.
PPM 2015, 15 - 18 September 2015

XII. **Sorption enhanced reforming of ethanol in a microwave reactor**
Dogu T., Aslan A., SARIYER M., SEZGİ N. A.
12th international conference on gas-liquid and gas-liquid-solid reactor engineering, 28 June - 01 July 2015

Supported Projects

SEZGİ N. A., SARIYER M., Project Supported by Higher Education Institutions, Karbon Bazlı Katalizörler İle Mikrodalga ve Elektrik Isıtmalı Reaktörlerde Etanolün Buharlı Reformlanması İle Yüksek Verimde Hidrojen Üretimi, 2022 - Continues
SEZGİ N. A., SARIYER M., Project Supported by Higher Education Institutions, Etanolün Döngüsel Adsorpsiyon Destekli Buharlı Reformlanması, 2021 - 2022
SEZGİ N. A., SARIYER M., Project Supported by Higher Education Institutions, Mikrodalga Reaktörde Adsorpsiyon Destekli Buharlı Etanol Reformlanmasından Hidrojen Üretimi, 2017 - 2017

Metrics

Publication: 16
Citation (WoS): 9
Citation (Scopus): 15
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H-Index (Scopus): 1