Asst. Prof. HANİFE ERDEN

Personal Information

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International Researcher IDs
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Education Information

Post Doctorate, Vrije Universiteit Brussel, Faculty of Engineering, Department of Chemical Engineering, Belgium 2019 - 2020
Doctorate, University of South Carolina, Faculty of Engineering, Department of Chemical Engineering, United States Of America 2012 - 2016
Postgraduate, Mugla Sitki Kocman University, Faculty Of Scıence, Department Of Chemıstry, Turkey 2006 - 2009
Undergraduate, Ege University, Faculty Of Engineering, Kimya Mühendisliği Bölümü, Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, TWO-STAGE PSA SYSTEM FOR CO2 REMOVAL AND CONCENTRATION DURING CLOSED-LOOP HUMAN SPACE EXPLORATION MISSIONS, University of South Carolina, College of Engineering, Department of Chemical Engineering, 2016
Postgraduate, THE DEVELOPMENT of METAL DOPED CLAY CATALYST SYSTEMS and THE INVESTIGATION of CATALYTIC DEEP OXIDATION of CVOCs , Mugla Sitki Kocman University, Faculty Of Scıence, Department Of Chemıstry, 2009

Research Areas

Chemical Reaction Engineering, Catalysis and Catalytic Processes, Chemical Process System Engineering, Process Design

Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - Continues
Research Assistant PhD, Osmaniye Korkut Ata University, Faculty Of Engıneerıng, Department Of Chemıstry Engıneerıng, 2017 - 2020
Research Assistant, University of South Carolina, College of Engineering, Department of Chemical Enigneering, 2012 - 2016
Researcher, Mugla Sitki Kocman University, Faculty Of Arts And Scıences, Department Of Chemıstry, 2007 - 2010

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Development of a Pressure Swing Adsorption Cycle for Producing High Purity CO2 from Dilute Feed Streams. Part I: Feasibility Study**
Erden H., Ebner A. D., Ritter J. A.
Industrial and Engineering Chemistry Research, vol.57, no.23, pp.8011-8022, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **A Simple Equalization Pressure Prediction Method for Pressure Equalization via Tanks in PSA Process**
Erden H., Erden L.
International Journal of Scientific and Technological Research, vol.4, no.10, pp.111-119, 2018 (Peer-Reviewed Journal)

II. **On the Use of Multi-Site Langmuir Model for Prediction of Non-Ideal Gas Mixture Adsorption Isotherms**
Erden H., Erden L.
Usak University Journal of Material Sciences, vol.6, no.1-2, pp.7-14, 2017 (Peer-Reviewed Journal)

Supported Projects

Erden H., Denayer J., Industrial Organizations of Other Countries Supported Project, Catalytic CO2 Reduction to Solar Fuels and Chemicals, 2018 - 2021
Erden H., Ritter J. A., Project Supported by Public Organizations in Other Countries, New PSA Cycle for CO2Removal and Concentration during Closed-Loop Human Space Exploration Missions, 2015 - 2016
Erden H., Ritter J. A., Project Supported by Public Organizations in Other Countries, Novel Pressure Swing Adsorption (PSA) Cycle to Facilitate Heavy Component (CO2) Enrichment and Recovery, 2015 - 2015
Erden H., Ritter J. A., Project Supported by Public Organizations in Other Countries, Development of Rapid Cycle Pressure Swing Adsorption Oxygen Concentrators for Extraterrestrial Applications, 2009 - 2013
Erden H., Ritter J. A., Project Supported by Public Organizations in Other Countries, Development of Pressure Swing Adsorption Technology for Spaceflight Medical Oxygen Concentrators, 2009 - 2013
Erden H., Ritter J. A., Project Supported by Public Organizations in Other Countries, Integrated Ammonia Reactor and Ammonia Pressure Swing Adsorption Recovery, 2010 - 2011
Erden L., Erden H., Akpolat O., TUBITAK Project, Synthesis characterization and testing of bimetallic organic inorganic clay catalyst for TCE removal, 2009 - 2010
Erden H., Ritter J. A., Project Supported by Public Organizations in Other Countries, Ammonia Process by Pressure Swing Adsorption, 2007 - 2010
Beşün N., TUBITAK Project, Katalitik CVOCs (Klorine olmuş uçucu organik bileşiklerin) oksidasyon reaksiyonu için kil kataliz sistemlerinin tasarımı, 2007 - 2010

Metrics

Publication: 4
Citation (Scopus): 6
H-Index (Scopus): 1

Scholarships

YLSY, Ministry of Education, 2010 - 2016