Asif Hussain

Associate Professor

US-Pakistan Center for Advanced Studies in Energy

Email: asif@uspcase.nust.edu.pk
Contact: 000000000
LinkedIn: https://www.linkedin.com/in/asif-khoja-99331722/

About

Dr. Asif Hussain is working as Associate Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. Asif Hussain has a PhD in Reaction Engineering And Catalysis. Dr. Asif Hussain has published 122 research articles & conference papers having a citation count of 3422, carried out 5 projects and filed 0 intellectual property.

Qualifications

PhD in Reaction Engineering And Catalysis 2015 - 2019
Universiti Teknologi Malaysia , Malaysia

MS in Catalysis and fuels 2012 - 2014
NUST, Islamabad , Pakistan

BS in Chemical 2007 - 2011
Balochistan University of Information Technology, Engineering & Management Sciences , Pakistan

Experience

Associate Professor 2024- Present
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2024 - 2024
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2023 - 2024
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2019 - 2019
US-Pakistan Center for Advanced Studies in Energy

Assistant Professor 2019 - 2023
Centre for Energy System

Postdoc Fellow 2023 - 2024
University of Cincinnati , Cincinnati Oh, USA

Lecturer 2015 - 2015
BUITEMS Quetta , Takatoo Campus Airport road Quetta

Awards

Asif Hussain 2019
Best Postgraduate Student (PhD Chemical Engineering) from Department of Chemical Engineering on the conjunction of 62nd Convocation Universiti Teknologi Malaysia

Bronze Medal 2018
Bronze Medal for PhD research Project in the annual Industrial exhibition INATEX 2018 organized by Universiti Teknologi Malaysia

School / College Best Researcher Award -2022

Professional Memberships

PEC Since 2012

Research Projects

National Projects

Fabrication of Pre-Heating System for Fixed Bed Steam Reforming Reactor for Clean Hydrogen (H2) Fuel Production 2021

Funding Agency: NUST
Amount: PKR 300,000.00
Status: Completed

Reclamation of Industrial Wastewater Using Novel Aeration- Free Oxygenic Photogranulation (OPG) Technology for bioenergy prospective 2022

Funding Agency: NUST
Amount: PKR 990,000.00
Status: Completed

The application of machine learning in the chemical recycling of plastic waste 2022

Funding Agency: Royal Society
Amount: PKR 2,800,000.00
Status: Approved_inprocess

Development and operation of lab/pilot scale facilities for co-utilization of indigenous low rank coal, biomass, sewage sludge for cleaner energy production for fertilizer industry 2024

Funding Agency: PSF
Amount: PKR 6,745,000.00
Status: Approved_inprocess

International Projects

Industry Projects

National Projects

Lab scale production of Zeolite 4A from indigenous coal fly-ash obtained from Coal-fired Power plant 2022

Client: Industry
Amount: PKR 2,500,000.00
Status: Approved_inprocess

International Projects

Research Articles

Experimental and numerical techniques for exploring conventional and seasonal biomass combustion optimization: insights into thermokinetics, combustion characteristics, and ash fusion analysis 2025

Asif Hussain Ramza Akram Waqar ul habib Khan Hamad Gohar Syed Sheraz Daood Israf Ud Din Muhammad Arfan Piotr Olczak

Thermal Science and Engineering Progress, Volume:65, Article Number 103873

Impact Factor: 5.400 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.tsep.2025.103873

In situ fabrication of nitrogen-doped carbon nanotube-modified Fe3C-decorated silicon composites for enhanced electrochemical performance in lithium-ion batteries 2025

Hafiz Muhammad Saleem Asif Hussain Ang Li Huaihe Song

Diamond and Related Materials, Volume 157, Article Number 112498

Impact Factor: 5.100 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.diamond.2025.112498

Enhancing Cr(VI) remediation efficiency using hemp-derived biochar: insights into RSM optimization and adsorption kinetics using ANN modelling 2025

Mussarat Ul Ain Abdur Rehman Asif Hussain Rabia Naeem Abdul Ahad Khan Jawad Gul Hajirah Kanwal Ajmal Hamid Israf Ud Din Sehar Shakir

International Journal of Environmental Science and Technology, Pages 1-22

Impact Factor: 3.400 | **Quartile:** 2
DOI: https://doi.org/10.1007/s13762-025-06612-0

Energy, exergy and economic analyses of solid oxide fuel cell based polygeneration system with integrated carbon capture, desalination and liquefied natural gas cold energy utilization 2025

Muhammad Uzair Azhar Mustafa Anwar Ali Bahadar Mohammed Zwawi Asif Hussain

International Journal of Hydrogen Energy, Volume: 141, Pages:512-522

Impact Factor: 8.3 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.ijhydene.2024.10.326

Recent developments and discourse on catalyst systems for partial oxidation of methane to syngas production 2025

Nida Naeem Asif Hussain Mehboob Alam Syed Muhammad Shuja Mustafa Anwar Muhammad Arfan Abdulaziz Al Anazi Mallikarjuna N. Nadagouda Bilal Alam Khan Ahad hussain Javed Umair Yaqub Qazi
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Volume:139, Pages 646-717
Impact Factor: 8.300 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.ijhydene.2025.05.183

Advanced characterization of hemp biomass pyrolysis: Bioenergy recovery and environmental implications 2025

Rashid Minhas Asif Hussain Hajirah Kanwal Muhammad Hassan Arslan Khan Syed Sheraz Daood Israf Ud din Ali Bahadar
Sustainable Chemistry and Pharmacy, Volume 45, Article Number 101989
Impact Factor: 5.500 | **Quartile:** 1 | **Citations:** 1
DOI: https://doi.org/10.1016/j.scp.2025.101989

Investigating the impact of oxygenic photo granules (OPGs) structure on wastewater treatment and bioenergy generation 2025

Kinza Rizwan Ali Raza Abeera Ayaz Ansari Asif Hussain Ghayoor Abbas Israf Ud Din Bilal Alam Khan Umair Yaqub Qazi
Journal of Environmental Chemical Engineering, Volume 13, Issue 3, Article Number 116838
Impact Factor: 7.400 | **Quartile:** 1
DOI: 10.1016/j.jece.2025.116838

Bi-functional V_2O_5 nanorods loaded biomass-derived activated carbon nanocomposites for enhanced photocatalytic dye degradation and hydrogen production 2025

Imama Abbas Hajirah Kanwal Asif Hussain Hira Azeem Mustafa Anwar Israf Ud Din Abdulaziz Al-Anazi
Diamond and Related Materials, Volume 154, Article Number 112104
Impact Factor: 4.300 | **Quartile:** 2 | **Citations:** 2
DOI: https://doi.org/10.1016/j.diamond.2025.112104

Thermokinetic synergistic evaluation of iron ores as oxygen carriers for TGA simulated pyrolysis, gasification, and chemical looping combustion of municipal solid wastes 2025

Syed Sheraz Daood Hafiz Usama Qureshi Waqar ul habib Khan Asif Hussain Hassan Abbas Khurram Shahzad Israf Ud Din William Nimmo
Sustainable Chemistry and Pharmacy, Volume 44, Article Number 101917
Impact Factor: 5.500 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.scp.2025.101917

Assessment of textile sludge pyrolysis behaviour through advance predictive models for bioenergy production 2025

Arslan Khan Asif Hussain Salman Raza Naqvi Waheed Miran Imtiaz Ali
Case Studies in Thermal Engineering, Volume 73, Article Number 106698
Impact Factor: 6.400 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.csite.2025.106698

Photo- and electrocatalytic hydrogen production from dye-degraded wastewater using samarium-doped ceria as a catalyst 2025

Hijab Haider Hira Azeem Asif Hussain Muhammad Hassan Rabia Liaquat Ali Bahadar Muhammed Ali S.A. Mustafa Anwar
International Journal of Hydrogen Energy, Volume:111, Pages:606-622
Impact Factor: 8.100 | **Quartile:** 1 | **Citations:** 4
DOI: https://doi.org/10.1016/j.ijhydene.2025.02.188

Photocatalytic performance of dual-function selenium-enriched biomass-derived activated carbon as a catalyst for dye degradation and hydrogen production 2025

Hajirah Kanwal Asif Hussain Yassine Hajji Sehar Shakir Mustafa Anwar Rabia Liaquat Israf Ud Din Ali Bahadur Manel Hleili
International Journal of Hydrogen Energy, Volume 101, Pages 1288-1303
Impact Factor: 8.100 | **Quartile:** 1 | **Citations:** 1
DOI: https://doi.org/10.1016/j.ijhydene.2024.12.509

Dielectric barrier discharge reactor application in biomass gasification tar removal 2025

Faisal Saleem Muhammad Raashid Abdul Rehman Asif Hussain Khoja Aumber Abbas Saba Gul Sajjad Ahmad Usman Dahiru Adam Harvey
Renewable and Sustainable Energy Reviews, Volume 208, Article Number 114963
Impact Factor: 16.300 | **Quartile:** 1 | **Citations:** 2
DOI: https://doi.org/10.1016/j.rser.2024.114963

Thermokinetic investigation of Polyethylene Terephthalate (PET) plastic over biomass fly ash (BFA) catalyst using pyrolysis process through non-isothermal thermogravimetric analysis 2024

Ali Raza Waqar Ul Habib Khan Asif Hussain Khoja Arslan Khan Muhammad Hassan Rabia Liaquat Majid Ali Israf Ud Din Abdulaziz Al-Anazi

Sustainable Chemistry and Pharmacy, Volume: 42, Article Number: 101856, Pages:15

Impact Factor: 5.5 | **Quartile:** 1 | **Citations:** 2

DOI: https://doi.org/10.1016/j.scp.2024.101856

Photocatalytic activity of molybdenum-doped LOS- zeolite for efficient dye degradation and hydrogen production 2024

Hamza Khawaja Nida Naeem Asif Hussain Khoja Hajirah Kanwal Ali Raza Mustafa Anwar Rabia Liaquat Israf Ud Din Salman Raza Naqvi Abdulaziz Al-Anazi

Results in Engineering, Volume 24, Article Number 103122

Impact Factor: 6.000 | **Quartile:** 1 | **Citations:** 5

DOI: https://doi.org/10.1016/j.rineng.2024.103122

Recent advancements in perovskite materials and their DFT exploration for dry reforming of methane to syngas production 2024

Mehboob Alam Uneeb Masood Khan Animesh Towfiq Partho Neha Kaushal Jawad Gul Nida Naeem Asif Hussain Khoja Mustafa Anwar Majid Ali Abdulaziz Al-Anazi Dai-Viet N. Vo Syed Muhammad Shuja

International Journal of Hydrogen Energy, Volume 87, Pages 1288-1326

Impact Factor: 8.100 | **Quartile:** 1 | **Citations:** 3

DOI: https://doi.org/10.1016/j.ijhydene.2024.09.049

Investigation of Novel Transition Metal Loaded Hydrochar Catalyst Synthesized from Waste Biomass (Rice Husk) and Its Application in Biodiesel Production Using Waste Cooking Oil (WCO) 2024

Rabia Liaquat Asif Hussain Khoja Laraib Aamir Khan Mohammed Aman Mohammad Kanan Muhammad Saleem Ali Bahadar Waqar Ul Habib Khan

Sustainability, Volume 16, Issue 17, Article Number 7275

Impact Factor: 3.300 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.3390/su16177275

Synthesis and Performance Analysis of a Carbon-Doped Titania (C–TiO2) Counter Electrode (CE) for Dye-Sensitized Solar Cells (DSSCs) 2024

Faisal Abbas Muhammad Tahir Asif Hussain Nadia Shahzad Mustafa Anwar Muniba ayub Sehar Shakir

Journal of Electronic Materials, Volume 53, Issue 8, Pages 4773-4781

Impact Factor: 2.200 | **Quartile:** 3 | **Citations:** 3

DOI: https://doi.org/10.1007/s11664-024-11222-6

Comprehensive Investigation of Almond Shells Pyrolysis Using Advance Predictive Models 2024

Arslan Khan Saad Saeed Erum Pervaiz Asif Hussain Khoja Salman Raza Naqvi Sana Saeed Imtiaz Ali

Renewable Energy, Volume 227, Article Number 120568

Impact Factor: 8.7 | **Quartile:** 1 | **Citations:** 8

DOI: https://doi.org/10.1016/j.renene.2024.120568

Synergistic transformation: Kinetic and thermodynamic evaluation of co-pyrolysis for low-rank bituminous coal and polyurethane foam waste 2024

Zaid Mohammad Banyhani Waqar Ul Habib Khan Hala H. Abd El-Gawad Dr. Mustafa Anwar Dr. Asif Hussain Khoja Dr. Muhammad Hassan Dr. Rabia Liaquat Zeinhom M. El-Bahy

Process Safety and Environmental Protection, Volume 184, Pages 907-921

Impact Factor: 7.8 | **Quartile:** 1 | **Citations:** 16

DOI: 10.1016/j.psep.2024.01.041

Praseodymium doped nickel oxide as hole-transport layer for efficient planar Perovskite Solar Cells 2024

Muhammad Tahir Hafiz Muhammad Abd ur Rehman Asif Hussain Mustafa Anwar Muhammad Adil Mansoor Faisal Abbas Sehar Shakir

Optik, Volume:300, Article Number: 171630

Impact Factor: 3.1 | **Quartile:** 2 | **Citations:** 7

DOI: 10.1016/j.ijleo.2024.171630

Experimental and numerical techniques to evaluate coal/biomass fly ash blend characteristics and potentials 2024

Usman Khalid Asif Hussain Khoja Syed Sheraz Daood Waqar Ul Habib Khan Israf Ud Din Abdulaziz Al-Anazi Antonella Petrillo

Science of The Total Environment, Volume 912, Article Number 169218

Impact Factor: 9.8 | **Quartile:** 1 | **Citations:** 6

DOI: https://doi.org/10.1016/j.scitotenv.2023.169218

Biomass fly ash as nanofiller to improve the dielectric properties of low-density polyethylene for possible high-voltage applications 2024

Atizaz Hussain Akram Nida Naeem Asif Hussain Khoja Faisal Shahzad Abraiz Khattak Muhammad Iftikhar Kashif Imran Abdulaziz Al-Anazi Israf Ud Din Syed Sheraz Daood

Heliyon , Volume 10, Issue 1, Article Number e23350

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 7

DOI: https://doi.org/10.1016/j.heliyon.2023.e23350

Underground geological sequestration of carbon dioxide (CO2) and its effect on possible enhanced gas and oil recovery in a fractured reservoir of Eastern Potwar Basin, Pakistan 2023

Anaiz Gul Fareed Asif Hussain Khoja Fabio De Felice Antonella Petrillo Muhammad Arsalan Sultan Zafar Khan Jalalzai Syed Sheraz Daood

Science of the Total Environment , Volume 905, Article Number 167124

Impact Factor: 9.8 | **Quartile:** 1 | **Citations:** 24

DOI: https://doi.org/10.1016/j.scitotenv.2023.167124

Corrosion behavior of SiC coated HX with MoSi2 interlayer to be utilized in iodine–sulfur cycle for hydrogen production 2023

Zain Hussain Zuhair S Khan Asif Hussain Khoja Altamash Shabbir Abdulaziz Al-Anazi Israf Ud Din

Heliyon , Volume 9, Issue 11, Article Number 21640

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 3

DOI: https://doi.org/10.1016/j.heliyon.2023.e21640

Exploring copyrolysis characteristics and thermokinetics of peach stone and bituminous coal blends 2023

Asif Hussain Khoja Hamad Gohar Waqar Ul Habib Khan Umair Yaqub Qazi Israf Ud Din Abdulaziz Al-Anazi Waqar Muhammad Ashraf M.A Mujtaba Fahid Riaz Syed Sheraz Daood

Energy Science & Engineering , Volume11, Issue11, Pages 4302-4323

Impact Factor: 3.8 | **Quartile:** 3 | **Citations:** 3

DOI: https://doi.org/10.1002/ese3.1583

Facile Synthesis of FeP-Decorated Heteroatomic-Doped Onion-like Carbon Nanospheres for Pseudocapacitance Enhanced Sodium Storage 2023

Hafiz Muhammd Saleem Mahmood Jamil Mohammad Tabish Asif Hussain Khoja Ang Li Dengke Wang Huaihe Song

ACS Applied Energy Materials , Volume 6(19), Pages 9885-9896

Impact Factor: 6.4 | **Quartile:** 2 | **Citations:** 12

DOI: https://doi.org/10.1021/acsaem.3c01376

Biomass derived activated carbon by chemical surface modification as a source of clean energy for supercapacitor application 2023

Rifat Mehdi Salman Raza Naqvi Asif Hussain Khoja Rajab Hussain

Fuel , Volume 348, Article Number 128529

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 69

DOI: https://doi.org/10.1016/j.fuel.2023.128529

Thermocatalytic partial oxidation of methane to syngas (H2, CO) production using Ni/La2O3 modified biomass fly ash supported catalyst 2023

Amin Ul Hasanat Asif Hussain Khoja Nida Naeem Abdulaziz Al-Anazi Rabia Liaquat Bilal Alam Khan Israf Ud Din

Results in Engineering , Volume 19, Article Number 10133

Impact Factor: 6.000 | **Quartile:** 1 | **Citations:** 17

DOI: https://doi.org/10.1016/j.rineng.2023.101333

Coaxial microbial electrolysis cell for cost-effective bioenergy production and wastewater treatment of potato industry effluent 2023

Rabia Liaquat Muhammad Muddasar Muhammad Zia Ur Rahman Asif Hussain Khoja Ayesha Aslam Abdul Basit

Journal of Chemical Technology and Biotechnology , Volume 98, Issue 9, Pages 2203-2213

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 11

DOI: doi.org/10.1002/jctb.7433

Solar-assisted hybrid oil heating system for heavy refinery products storage 2023

Naseer ahmad Khan Asif Hussain Khoja Naveed Ahmed Fahid Riaz Mariam Mahmood Majid Ali M.A Kalam M.A Mujtaba

Case Studies in Thermal Engineering , Volume 49, Article Number 103276

Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 7

DOI: https://doi.org/10.1016/j.csite.2023.103276

Enhancement in the photocatalytic and optoelectronic properties of erbium oxide by adding zinc oxide and molybdenum 2023

Muhammad Talha Shabbir Tayyab Hussain Sehar Shakir Mustafa Anwar Asif Hussain Khoja Syed Nawaz Aamir Naseem Satti

Ceramics International , Volume 49, Issue 12, Pages 19691-19700

Impact Factor: 5.2 | **Quartile:** 1 | **Citations:** 9
DOI: https://doi.org/10.1016/j.ceramint.2023.03.086

Effect of non-thermal plasma dielectric barrier discharge reactor on the quality of biomass gasification product gas from the gasifier 2023

Faisal Saleem Asif Hussain Khoja Atif Khan Abdul Rehman Salman Raza Naqvi Umair Yaqub Qazi Kui Zhang Adam Harvey
Journal of the Energy Institute, Volume 108, Article Number 101228
Impact Factor: 6.470 | **Quartile:** 2 | **Citations:** 11
DOI: https://doi.org/10.1016/j.joei.2023.101228

Synergistic effect of plasma power and temperature on the cracking of toluene in the N2 based product gas 2023

Faisal Saleem Asif Hussain Khoja Rabia Sharif Abdul Rehman Salman Raza Naqvi Umair Yaqub Qazi Kui Zhang Adam Harvey
Heliyon , Volume 9, Issue 3, Article Number e14237
Impact Factor: 3.776 | **Quartile:** 2 | **Citations:** 4
DOI: https://doi.org/10.1016/j.heliyon.2023.e14237

Recent progress in catalytic deoxygenation of biomass pyrolysis oil using microporous zeolites for green fuels production 2023

Salman Raza Naqvi Asif Hussain Khoja Imtiaz Ali Muhammad Naqvi Tayyaba Noor Awais Ahmad Rafael Luque Nor Aishah Saidina Amin
Fuel, Volume 333, Part 1, Article Number 126268
Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 66
DOI: https://doi.org/10.1016/j.fuel.2022.126268

Thermal steam methane reforming over bimetal-loaded hemp-derived activated carbon-based catalyst for hydrogen production 2022

Rashid Minhas Asif Hussain Khoja Nida Naeem Mustafa Anwar Sehar Shakir Rabia Liaquat Israf Ud Din
Research on Chemical Intermediates, Pages 1-23
Impact Factor: 3.134 | **Quartile:** 3 | **Citations:** 12
DOI: https://doi.org/10.1007/s11164-022-04924-1

A highly efficient A-site deficient perovskite interlaced within two dimensional MXene nanosheets as an active electrocatalyst for hydrogen production 2022

Ramsha Khan Muhammad Taqi Mehran Salman Raza Naqvi Asif Hussain Khoja Mutawara Mahmood Baig Muhammad Aftab Akram Faisal Shahzad Sajjad Hussain
International Journal of Hydrogen Energy, Volume 47, Issue 88, Pages 37476-37489
Impact Factor: 7.139 | **Quartile:** 2 | **Citations:** 30
DOI: https://doi.org/10.1016/j.ijhydene.2021.09.017

Air gasification of high-ash sewage sludge for hydrogen production: Experimental, sensitivity and predictive analysis 2022

Muhammad Abdullah Khan Salman Raza Naqvi Syed Ali Ammar Taqvi Muhammad Shahbaz Imtiaz Ali Muhammad Taqi Mehran Asif Hussain Khoja Dagmar Juchelková
International Journal of Hydrogen Energy, Volume 47, Issue 88, Pages 37374-37384
Impact Factor: 7.139 | **Quartile:** 2 | **Citations:** 22
DOI: https://doi.org/10.1016/j.ijhydene.2021.11.192

In depth thermokinetic investigation on Co-pyrolysis of low-rank coal and algae consortium blends over CeO2loaded hydrotalcite (MgNiAl) catalyst 2022

Waqar Ul Habib Khan Asif Hussain Khoja Hamad Gohar Salman Raza Naqvi Israf Ud Din Brock Lumbers Mohamed A. Salem Abdullah Y. Alzahrani
Journal of Environmental Chemical Engineering, Volume 10, Issue 5, Article Number 108293
Impact Factor: 7.968 | **Quartile:** 1 | **Citations:** 14
DOI: https://doi.org/10.1016/j.jece.2022.108293

Partial Oxidation of Methane over CaO Decorated TiO2 Nanocatalyst for Syngas Production in a Fixed Bed Reactor 2022

Asif Hussain Khoja Ahad Hussain Javed Salman Raza Naqvi Sehar Shakir Iraf ud Din Zafar Arshad Umer Rashid Umair Yaqub Qazi Nida Naeem
Catalysts , Volume 12, Issue 10, Article Number 1089
Impact Factor: 4.501 | **Quartile:** 2 | **Citations:** 10
DOI: https://doi.org/10.3390/catal12101089

The fate and dynamics of iron during the transformation of activated sludge into oxygenic photogranules (OPGs) under hydrodynamic batch conditions for environmental applications 2022

Abeera Ayaz Ansari Arfa Ayaz Ansari Asif Hussain Khoja Gitau J. Gikonyo Ahmed S. Abouhend Chul Park
Journal of Environmental Chemical Engineering, Volume 10, Issue 4, Article Number 108190

Impact Factor: 7.968 | **Quartile:** 1 | **Citations:** 6
DOI: https://doi.org/10.1016/j.jece.2022.108190

Investigating the characterisation, kinetic mechanism, and thermodynamic behaviour of coal-biomass blends in co-pyrolysis process 2022

Hamad Gohar Asif Hussain Khoja Abeera Ayaz Ansari Salman Raza Naqvi Rabia Liaquat Muhammad Hassan Khalil Hasni Umair Yaqoob Qazi Imtiaz Ali
Process Safety and Environmental Protection, Volume 163, Pages 645-658
Impact Factor: 6.158 | **Quartile:** 1 | **Citations:** 52
DOI: 10.1016/j.psep.2022.05.063

Techno-economic assessment of solar water heating systems for sustainable tourism in northern Pakistan 2022

Muhammad Naveed Arif Adeel Waqas Faaz Ahmed Butt Mariam Mahmood Asif Hussain Khoja Majid Ali Kafait Ullah M. A Mujtaba M.A Kalam
Alexandria Engineering Journal, Volume 61, Issue 7, Pages 5485-5499
Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 18
DOI: 10.1016/j.aej.2021.11.006

Thermokinetics synergistic effects on co-pyrolysis of coal and rice husk blends for bioenergy production 2022

Maham Tauseef Abeera Ayaz Ansari Asif Hussain Khoja Salman Raza Naqvi Rabia Liaquat William Nimmo Syed Sheraz Daood
Fuel, Volume 318, Article Number 123685
Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 47
DOI: https://doi.org/10.1016/j.fuel.2022.123685

Praseodymium-doped Sr2TiFeO6-δ double perovskite as a bi-functional electrocatalyst for hydrogen production through water splitting 2022

Qassam Sarmad Uneeb Masood Khan Mutawara Mahmood Baig Muhammad Hassan Faaz Ahmed Butt Asif Hussain Rabia Liaquat Zuhair Subhani Khan Mustafa Anwar Muhammed Ali S.A.
Journal of Environmental Chemical Engineering, Volume 10, Issue 3, Article Number 107609
Impact Factor: 5.909 | **Quartile:** 1 | **Citations:** 38
DOI: 10.1016/j.jece.2022.107609

Improved ethylbenzene suppression and coke-resistance on benzene methylation over metals doped fibrous silica-HZSM-5 zeolite 2022

A.F.A. Rahman A.A Jalil M.Y.S. Hamid Ijaz Hussain N.S. Hassan Asif Hussain
Molecular Catalysis , Volume 526, Article Number 112370
Impact Factor: 5.062 | **Quartile:** 2 | **Citations:** 8
DOI: https://doi.org/10.1016/j.mcat.2022.112370

Decomposition of Benzene as a biomass gasification Tar in CH4 carrier gas using Non-thermal Plasma: Parametric and Kinetic Study 2022

Faisal Saleem Aumber Abbas Abdul Rehman Asif Hussain Khoja Salman Raza Naqvi Muhammad Yousaf Arshad Kui Zhang Adam Harvey
Journal of the Energy Institute, Volume 102, Pages 190-195
Impact Factor: 6.186 | **Quartile:** 2 | **Citations:** 25
DOI: https://doi.org/10.1016/j.joei.2022.03.009

Sorption enhanced steam reforming of methane over waste-derived CaO promoted MgNiAl hydrotalcite catalyst for sustainable H2 production 2022

Mariam Ayesha Asif Hussain Khoja Faaz Ahmed Butt Umair Sikandar Ahad Hussain Javed Salman Raza Naqvi Israf Ud Din Muhammad Taqi Mehran
Journal of Environmental Chemical Engineering, Volume 10, Issue 3, Article Number 107651
Impact Factor: 5.909 | **Quartile:** 1 | **Citations:** 25
DOI: 10.1016/j.jece.2022.107651

Substituted natural gas (SNG) production using an environment-friendly, metal-free modified beta zeolite (@BEA) catalyst with a dandelion flower-like structure 2022

Ijaz Hussain A.A Jalil MYS Hamid Asif Hussain Khoja M Farooq H.M.A Sharif N.S Hassan M.A.H Aziz Walid Nabgan
Molecular Catalysis , Volume 523, Article Number 112140
Impact Factor: 5.062 | **Quartile:** 2 | **Citations:** 10
DOI: 10.1016/j.mcat.2022.112140

Prospects towards sustainability: A comparative study to evaluate the environmental performance of brick making kilns in Pakistan 2022

Affan Rauf Sehar Shakir Amos Ncube Hafiz Muhammad Abdur Rehman Abdul Kashif Janjua Saeeda Khanum Asif Hussain
Environmental Impact Assessment Review, Volume 94, Article Number 106746
Impact Factor: 7.9 | **Quartile:** 1 | **Citations:** 18

DOI: https://doi.org/10.1016/j.eiar.2022.106746

HF free greener Cl-terminated MXene as novel electrocatalyst for overall water splitting in alkaline media 2022

Bilal Sarfraz Muhammad Taqi Mehran Mutawara Mahmood Baig Salman Raza Naqvi Asif Hussain Khoja Faisal Shahzad

International Journal of Energy Research, Pages 1-13

Impact Factor: 4.6 | **Quartile:** 1 | **Citations:** 45

DOI: https://doi.org/10.1002/er.7895

Partial oxidation of methane over biomass fly ash (BFA)-supported Ni/CaO catalyst for hydrogen-rich syngas production 2022

Nida Naeem Asif Hussain Khoja Faaz Ahmed Butt Muhammad Arfan Rabia Liaquat Amin Ul Hasnat

Research on Chemical Intermediates, Pages 1-28

Impact Factor: 2.914 | **Quartile:** 3 | **Citations:** 13

DOI: 10.1007/s11164-022-04685-x

Biological carbon capture, growth kinetics and biomass composition of novel microalgal species 2022

Rabia Liaquat Tahreem Assad Khan Zeshan Asif Hussain Khoja Atia Bano

Bioresource Technology Reports, Volume 17, Article Number 100982

Impact Factor: N/A | **Citations:** 7

DOI: doi.org/10.1016/j.biteb.2022.100982

Performance Analysis of Calcium-Doped Titania (TiO2) as an Effective Electron Transport Layer (ETL) for Perovskite Solar Cells 2022

Zafar Arshad Sehar Shakir Asif Hussain Khoja Ahad Hussain Javed Mustafa Anwar Abdur Rehman Rahat Javaid Umair Yaqoob Qazi Sarah Farrukh

Energies, Volume 15(4), Article Number 1408

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 20

DOI: https://doi.org/10.3390/en15041408

Valorization of Wet Oily Petrochemical Sludge via Slow Pyrolysis: Thermo-Kinetics Assessment and Artificial Neural Network Modeling 2022

Salman Raza Naqvi Syed Ali Ammar Taqvi Asif Hussain Khoja Imtiaz Ali Muhammad Taqi Mehran Wasif Farooq Nakorn Tippayawong Dagmar Juchelková A.E. Atabani

Frontiers in Energy Research, Volume 9, Article Number 782139

Impact Factor: 4.008 | **Quartile:** 2 | **Citations:** 17

DOI: https://doi.org/10.3389/fenrg.2021.782139

Multiparametric optimization for reduced condenser cooling water consumption in a degraded combined cycle gas turbine power plant from a water-energy nexus perspective 2021

Ahmad Jamil Adeel Javed Abdul Wajid Muhammad Omar Zeb Majid Ali Muhammad Imran Asif Hussain Khoja

Applied Energy, Volume 304, Article Number 117764

Impact Factor: 11.446 | **Quartile:** 1 | **Citations:** 12

DOI: https://doi.org/10.1016/j.apenergy.2021.117764

A performance evaluation study of nano-biochar as a potential slow-release nano-fertilizer from wheat straw residue for sustainable agriculture 2021

Hamza Ahmad Khan Salman Raza Naqvi Muhammad Taqi Mehran Asif Hussain Khoja Dagmar Juchelková Abdulaziz Atabani Muhammad Bilal Khan Niazi

Chemosphere, Volume 285, Article Number 131382

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 106

DOI: https://doi.org/10.1016/j.chemosphere.2021.131382

Synthesis of bimetallic Co-Ni/ZnO nanoprisms (ZnO-NPr) for hydrogen-rich syngas production via partial oxidation of methane 2021

Ahad Hussain Javed M. Abdullah Khan Nadia Shahzad Faaz Ahmed Butt Nida Naeem Rabia Liaquat Asif Hussain Khoja

Journal of Environmental Chemical Engineering, Volume 9, Issue 6, Article Number 106887

Impact Factor: 5.909 | **Quartile:** 1 | **Citations:** 17

DOI: https://doi.org/10.1016/j.jece.2021.106887

Methane Refnement by Iron Oxide, Packed Column Water Scrubbing, and Activated Charcoal Scrubbing Techniques 2021

Shah Fahad Bin Masud Muhammad Hassan Faaz Ahmed Butt Ram Sarup Singh Asif Hussain Khoja Mustafa Anwar Waqas Ahmad

Waste and Biomass Valorization, Pages 1-13

Impact Factor: 3.703 | **Quartile:** 2 | **Citations:** 6

DOI: https://doi.org/10.1007/s12649-021-01629-1

Assessment of long-term energy and environmental impacts of the cleaner technologies for brick production 2021

Akhtar Abbas Muhammad Bilal Sajid Muhammad Asaad Iftikhar Asif Hussain Khoja Muhammad Muneeb Muhammad Shahid Kafait Ullah

Energy Reports , Volume 7, Pages 7157-7169

Impact Factor: 4.937 | **Quartile:** 2 | **Citations:** 31

DOI: 10.1016/j.egyr.2021.10.072

Synthesis of cobalt loaded double perovskite Sr2TiFeO6-δ (STF) as a stable catalyst for enhanced hydrogen production via methane decomposition 2021

Uneeb Masood Khan Qassam Sarmad Mustafa Anwar Asif Hussain Khoja Muhammed Ali S.A. Zuhair S. Khan Muhammad Hassan Sehar Shakir

International Journal of Energy Research, Volume 45, Issue 14, Pages 20073-20088

Impact Factor: 4.672 | **Quartile:** 1 | **Citations:** 9

DOI: http://dx.doi.org/10.1002/er.7084

Partial oxidation of methane over CeO2 loaded hydrotalcite (MgNiAl) catalyst for the production of hydrogen rich syngas (H2, CO) 2021

Anees ul Hasnain Faaz Ahmed Butt Faisal Saleem Muhammad Taqi Mehran Rabia Liaquat Majid Ali Zaki IsmailZaki Asif Hussain Khoja Mariam Ayesha

International Journal of Hydrogen Energy , Volume 46, Issue 74, Pages 36663-36677

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 19

DOI: 10.1016/j.ijhydene.2021.08.169

Methane decomposition for hydrogen production over biomass fly ash-based CeO2 nanowires promoted cobalt catalyst 2021

Jehangeer Raza Asif Hussain Khoja Salman Raza Naqvi Muhammad Taqi Mehran Sehar Shakir Rabia Liaquat Muhammad Tahir Ghulam Ali

Journal of Environmental Chemical Engineering, Volume 9, Issue 5, Article Number 105816

Impact Factor: 7.968 | **Quartile:** 1 | **Citations:** 39

DOI: https://doi.org/10.1016/j.jece.2021.105816

Catalytic Performance of Calcium-Lanthanum co-doped Ceria (Ce0.85-xLa0.15CaxO2-δ) in Partial Oxidation of Methane 2021

Zuhair Subhani Khan Andanastuti Muchtar Qassam Sarmad Uneeb Masood Khan Mustafa Anwar Asif Hussain Khoja Muhammed Ali Mahendra Rao Somalu

Bulletin of Chemical Reaction Engineering and Catalysis, Volume 16, Issue 3, Pages 548-554

Impact Factor: -

DOI: https://doi.org/10.9767/bcrec.16.3.10528.548-554

Direct chemical synthesis of interlaced NiMn-LDH nanosheets on LSTN perovskite decorated Ni foam for high-performance supercapacitors 2021

Mutawara Mahmood Baig Muhammad Taqi Mehran Ramsha Khan Khalid Mehmood Salman Raza Naqvi Asif Hussain Khoja Iftikhar Hussain Gul

Surface and Coatings Technology, Volume 421, Article Number 127455

Impact Factor: 4.865 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.surfcoat.2021.127455

Investigation of slow pyrolysis mechanism and kinetic modeling of Scenedesmus quadricauda biomass 2021

Sajjad AkbarKhan Imtiaz Ali Salman Raza Naqvi Kai Li Muhammad Taqi Mehran Asif Hussain Khoja Abdulrahman Anwar Alarabi A.E Atabani

Journal of Analytical and Applied Pyrolysis, Volume 158, Article Number 105149

Impact Factor: 6.437 | **Quartile:** 1 | **Citations:** 28

DOI: https://doi.org/10.1016/j.jaap.2021.105149

Synthesis of Ash Derived Co/Zeolite Catalyst for Hydrogen Rich Syngas Production via Partial Oxidation of Methane 2021

Amer Zafar Bilal A. Khan Asif Hussain Khoja Uneeb Masood Khan Qassam Sarmad Muhammad Taqi Mehran Salman Raza Naqvi Majid Ali

Bulletin of Chemical Reaction Engineering and Catalysis, Volume 16(3), Pages 507-516

Impact Factor: 0 | **Citations:** 7

DOI: 10.9767/bcrec.16.3.10614.507-516

Removal of toluene as a toxic VOC from methane gas using a non-thermal plasma dielectric barrier discharge reactor 2021

Faisal Saleem Abdur Rehman Farhan Ahmed Asif Hussain Khoja Farhan Javed Kul Zang Adam Harvey

RSC Advances , Volume 11, Article Number 27583-27588

Impact Factor: 4.036 | **Quartile:** 2 | **Citations:** 15

DOI: 10.1039/d1ra04772h

Reutilizing Methane Reforming Spent Catalysts as Efficient Overall Water-Splitting Electrocatalysts 2021

Muhammad Awais Khan Muhammad Taqi Mehran Salman Raza Naqvi Asif Hussain Khoja Faisal Shahzad Umair Sikander Sajjad Hussain Ramsha Khan

Bilal Sarfaraz Mutawara Mahmood Baig

ACS Omega , Volume 6(33), Pages 21316–21326

Impact Factor: 3.512 | **Quartile:** 2 | **Citations:** 21

DOI: https://doi.org/10.1021/acsomega.1c01558

Ru-embedded 3D g-C3N4 hollow nanosheets (3D CNHNS) with proficient charge transfer for stimulating photocatalytic H2 production 2021

Benish Tahir Muhammad Tahir Mohd Ghazali Mohd Nawawai Asif Hussain Khoja Bakhtiar Ul Haq Wasif Farooq

International Journal of Hydrogen Energy, Volume 46, Issue 55, Pages 27997-28010

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 36

DOI: https://doi.org/10.1016/j.ijhydene.2021.06.037

Evaluating the use of unassimilated bio-anode with different exposed surface areas for bioenergy production using solar-powered microbial electrolysis cell 2021

Muhammad Muddasar Rabia Liaquat Ali Abdullah Asif Hussain Nadia Shahzad Naseem iqbal Muhammad Ishtiaq Ali Azhar Uddin Sami Ullah

International Journal of Energy Research, Page 1-13

Impact Factor: 4.672 | **Quartile:** 1 | **Citations:** 15

DOI: 10.1002/er.7091

A comparison of the decomposition of biomass gasification tar compound in CO, CO2, H2 and N2 carrier gases using non-thermal plasma 2021

Faisal Saleem Abdul Rehman Aumber Abbas Asif Hussain Khoja Farhan Ahmad Lina Liu Kui Zang Adam Harvy

Journal of the Energy Institute, Volume 97, Pages 161-168

Impact Factor: 6.470 | **Quartile:** 2 | **Citations:** 33

DOI: https://doi.org/10.1016/j.joei.2021.04.013

A comparison of energy policies of Pakistan and their impact on bioenergy development 2021

Zulfiqar Ali Rabia Liaquat Asif Hussain Khoja Umair Safdar

Sustainable Energy Technologies and Assessments, Volume 46, Article Number 101246

Impact Factor: 7.632 | **Quartile:** 2 | **Citations:** 13

DOI: https://doi.org/10.1016/j.seta.2021.101246

Magnesium doped TiO2 as efficient electron transport layer in perovskite solar cells 2021

Zafar Arshad Asif Hussain Khoja Sehar Shakir Asif Afzal M A Mujtaba Manzoor Elahi M Soudagar H Fayyaz Ahamed Saleel Sara Farukh Mudassar Saeed

Case Studies in Thermal Engineering, Volume 26, Article Number 101101

Impact Factor: 6.268 | **Quartile:** 1 | **Citations:** 49

DOI: https://doi.org/10.1016/j.csite.2021.101101

Enhanced Methane Production from Anaerobic Co-digestion of wheat straw rice straw and sugarcane bagasse: A Kinetic Analysis 2021

Sadia Meraj Rabia Liaquat Salman Raza Naqvi Zeshan Sheikh Atoofa Zainab Asif Hussain Khoja Dagmar Juchelkova Abdulaziz Atabani

Applied Sciences , Volume 11(13), Article Number 6069

Impact Factor: 2.838 | **Quartile:** 2 | **Citations:** 30

DOI: https://doi.org/10.3390/app11136069

Performance Analysis of TiO2-Modified Co/MgAl2O4 Catalyst for Dry Reforming of Methane in a Fixed Bed Reactor for Syngas (H2, CO) Production 2021

Arslan Mazhar Asif Hussain Khoja Abul Kalam Azad Faisal Mushtaq Salman Raza Naqvi Sehar Shakir Muhammad Hassan Rabia Liaquat Mustafa Anwar

Energies , Volume 14(11), Article Number 3347

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 24

DOI: https://doi.org/10.3390/en14113347

Removal of benzene as a tar model compound from a gas mixture using non-thermal plasma dielectric barrier discharge reactor 2021

Faisal Saleem Asif Hussain Khoja Jamal Umer Farhan Ahmed Syed Zaheer Abbas Kui Zang Adam Harvey

Journal of the Energy Institute, Volume 96, Pages 97-105

Impact Factor: 6.470 | **Quartile:** 2 | **Citations:** 30

DOI: 10.1016/j.joei.2021.02.008

A comparative assessment of solid fuel pellets production from torrefied agro-residues and their blends 2021

Rifat Mehdi Naveed Raza Salman Raza Naqvi Asif Hussain Khoja M. Taqi Mehran Muhammad Farooq Khanh-Quang Tran

Journal of Analytical and Applied Pyrolysis, Volume 156, Article Number 105125

Impact Factor: 5.541 | **Quartile:** 1 | **Citations:** 20

DOI: https://doi.org/10.1016/j.jaap.2021.105125

Assessing the impact of COVID-19 and safety parameters on energy project performance with an analytical hierarchy process 2021

Shahid Hussain Wang Xuetong Talib Hussain Asif Hussain Khoja Muhammad Zaeem Zia

Utilities Policy , Volume 70, Article Number 101210

Impact Factor: 3.247 | **Quartile:** 3 | **Citations:** 31

DOI: https://doi.org/10.1016/j.jup.2021.101210

Synthesis and characterization of biomass-derived surface-modified activated carbon for enhance CO2 adsorption 2021

Azeem Sarwar Majid Ali Asif Hussain Khoja Azra Nawar Adeel Waqas Rabia Liaquat Salman Raza Naqvi Muhammad Asjid

Journal of CO2 Utilization, Volume 46, Article Number 101476

Impact Factor: 7.132 | **Quartile:** 1 | **Citations:** 153

DOI: https://doi.org/10.1016/j.jcou.2021.101476

Kinetic and thermodynamic analyses of dried oily sludge pyrolysis 2021

Imtiaz Ali Rumaisa Tariq Salman Raza Naqvi Asif Hussain Khoja Muhammad Taqi Mehran Ningbo Gao Muhammad Naqvi

Journal of the Energy Institute, Volume 95, Pages 30-40

Impact Factor: 6.186 | **Quartile:** 2 | **Citations:** 83

DOI: https://doi.org/10.1016/j.joei.2020.12.002

Numerical Investigation of Non-Uniform Flow in Twin-Silo Combustors and Impact on Axial Turbine Stage Performance 2021

Hafiz Muhammad Hassan Adeel Javed Asif Hussain Khoja Majid Ali Muhammad Bilal Sajid

Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Pages 1-13

Impact Factor: 1.616 | **Quartile:** 4 | **Citations:** 18

DOI: https://doi.org/10.1177/0957650920982103

Biomass ash characterization, fusion analysis and its application in catalytic decomposition of methane 2021

Muhammad Assad Munawar Asif Hussain Khoja Muhammad Hassan Rabia Liaquat Salman Raza Naqvi Muhammad Taqi Mehran Ali Abduallah Faisal Saleem

Fuel , Volume 285, Article Number 119107

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 68

DOI: 10.1016/j.fuel.2020.119107

Enhanced CO2 capture using organic acid structure modified waste eggshell derived CaO sorbent 2021

Azra Nawar Asif Hussain Khoja Mustafa Anwar Mariam Mahmood Adeel waqas Majid Ali

Journal of Environmental Chemical Engineering, Volume 9, Issue 1, Article Number 104871

Impact Factor: 7.968 | **Quartile:** 1 | **Citations:** 68

DOI: 10.1016/j.jece.2020.104871

Agro-industrial residue gasification feasibility in captive power plants: A South-Asian case study 2021

Salman Raza Naqvi Muhammad Naqvi Syed Ali Ammar Taqvi Farukh Iqbal Abrar Inayat Asif Hussain Khoja Muhammad Taqi Mehran Muhammad Ayoub Muhammad Shahbaz Nor Aishah Saidina Amin

Energy , Volume 214, Article Number 118952

Impact Factor: 8.857 | **Quartile:** 1 | **Citations:** 31

DOI: https://doi.org/10.1016/j.energy.2020.118952

Development of Cost-Effective Fertilizer-Based Media for the Microalgae Cultivation Aimed at Effective Biomass Production 2020

Muneeb Qayyum Asif Hussain Khoja Salman Raza Naqvi Haider Ejaz Azra Nawar Abeera Ayaz Ansari

NUST Journal of Engineering Sciences, Volume 13, No. 2, Pages 45-51

Impact Factor: 0

DOI: https://doi.org/10.24949/njes.v13i2.628

Hydrogen Production from Methane Cracking in Dielectric Barrier Discharge Catalytic Plasma Reactor Using a Nanocatalyst 2020

Asif Hussain Khoja Abul Kalam Azad Faisal Saleem Bilal Alam Khan Nor Aishah Saidina Amin Abul Kalam Azad Faisal Saleem Bilal Alam Khan Salman Raza Naqvi M Taqi Mehran Nor Aishah Saidina Amin

Energies , Volume 13(22), Article Number 5921

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 30

DOI: 10.3390/en13225921

3D hierarchical heterostructured LSTN@NiMn-layered double hydroxide as a bifunctional water splitting electrocatalyst for hydrogen production 2020

Ramsha Khan M. Taqi Mehran Mutawara Mahmood Baig Bilal Sarfraz Salman Raza Naqvi Muhammad Bilal Khan Niazi Muhammad Zubair Khan Asif Hussain Khoja

Fuel, Volume 285, Article Number 119174

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 77

DOI: https://doi.org/10.1016/j.fuel.2020.119174

Investigating the potential of locally sourced wastewater as a feedstock of microbial desalination cell (MDC) for bioenergy production 2020

Rabia Liaquat Tariq Mehmood Asif Hussain Khoja Naseem Iqbal Haider ejaz Sadia Mumtaz

Bioprocess and Biosystems Engineering, Pages 1-12

Impact Factor: 3.210 | **Quartile:** 2 | **Citations:** 12

DOI: 10.1007/s00449-020-02433-2

Thermal dry reforming of methane over La2O3 co-supported Ni/MgAl2O4 catalyst for hydrogen-rich syngas production 2020

Asif Hussain Khoja Mustafa Anwar Sehar Shakir Muhammad Taqi Mehran Arslan Mazhar Adeel Javed Nor Aishah Saidina Amin

Research on Chemical Intermediates, Volume 46, Pages 3817-3833

Impact Factor: 2.914 | **Quartile:** 3 | **Citations:** 29

DOI: https://doi.org/10.1007/s11164-020-04174-z

Role of perovskites as a bi-functional catalyst for electrochemical water splitting: A review 2020

Ramsha Khan M. Taqi Mehran Salman Raza Naqvi Asif Hussain Khoja

International Journal of Energy Research, Pages 1-34

Impact Factor: 5.164 | **Quartile:** 1 | **Citations:** 58

DOI: https://doi.org/10.1002/er.5635

Copper and calcium based metal organic framework catalyst for biodiesel production from waste cooking oil: process optimization study 2020

Unza Jamil Asif Hussain Khoja Rabia Liaquat Salman Raza Naqvi Wan Nor Nadyaini Wan Omar Nor Aishah Saidina Amin

Energy Conversion and Management, Volume 215, Article Number 112934

Impact Factor: 9.709 | **Quartile:** 1 | **Citations:** 152

DOI: https://doi.org/10.1016/j.enconman.2020.112934

Kinetic study of dry reforming of methane using hybrid DBD plasma reactor over La2O3 co-supported Ni/MgAl2O4 catalyst 2020

Muhammad Tahir Nor Aishah Saidina Amin Adeel Javed Muhammad Taqi Mehran Asif Hussain Khoja

International Journal of Hydrogen Energy, Volume 45, Issue 22, Pages 12256-12271

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 50

DOI: 10.1016/j.ijhydene.2020.02.200

Effect of support size for stimulating hydrogen production in phenol steam reforming using Ni-embedded TiO2 nanocatalyst 2020

Asif Hussain Khoja Muhammad Tahir Saeed Baamran Mahadhir Mohamed Muhammad Tahir Saeed Baamran Mahadhir Mohamed

Journal of Environmental Chemical Engineering, Volume 8, Issue 1, Article Number 103604

Impact Factor: 0 | **Citations:** 44

DOI: https://doi.org/10.1016/j.jece.2019.103604

Evaluating the performance of Ni catalyst supported on La2O3-MgAl2O4 for dry reforming of methane in a packed bed dielectric barrier discharge (DBD) plasma reactor 2019

Asif Hussain Khoja Muhammad Tahir Nor Aishah Saidina Amin

Energy & Fuels, -

Impact Factor: 3.421 | **Quartile:** 2 | **Citations:** 92

DOI: 10.1021/acs.energyfuels.9b02236

Process optimization of DBD plasma dry reforming of methane over Ni/La2O3-MgAl2O4 using multiple response surface methodology 2019

Asif Hussain Khoja Muhammad Tahir Nor Aishah Saidina Amin

International Journal of Hydrogen Energy, Volume 44, Issue 23, Pages 11774-11787

Impact Factor: 4.939 | **Quartile:** 2 | **Citations:** 58

DOI: 10.1016/j.ijhydene.2019.03.059

Recent developments in non-thermal catalytic DBD plasma reactor for dry reforming of methane 2019

Asif Hussain Khoja Muhammad Tahir Nor Aishah Saidina Amin

Energy Conversion and Management, Volume 183, Pages 529-560

Impact Factor: 8.208 | **Quartile:** 1 | **Citations:** 192

DOI: 10.1016/j.enconman.2018.12.112

Efficient removal of cyanide from industrial effluent using acid treated modified surface activated carbon 2019

Asif Hussain Khoja Arif Hussain Jauto Sheeraz Ahmed Memon Azizullah Channa

Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, -

Impact Factor: 1.184 | **Quartile:** 3 | **Citations:** 15

DOI: https://doi.org/10.1080/15567036.2019.1568643

Structure and breakdown property relationship of polyethylene nanocomposites containing laboratory-synthesized alumina, magnesia and magnesium aluminate nanofillers 2018

Asif Hussain Khoja A. Samad K.Y. Lau I.A. Khan M.M. Jaffar M. Tahir

Journal of Physics and Chemistry of Solids, Volume 120, Pages 140-146

Impact Factor: 2.752 | **Quartile:** 2 | **Citations:** 24

DOI: 10.1016/j.jpcs.2018.04.036

Cold plasma dielectric barrier discharge reactor for dry reforming of methane over Ni/Al2O3-MgO nanocomposite 2018

Asif Hussain Khoja Muhammad Tahir Nor Aishah Saidina Amin

Fuel Processing Technology, Volume 178, Pages 166-179

Impact Factor: 4.507 | **Quartile:** 1 | **Citations:** 90

DOI: https://doi.org/10.1016/j.fuproc.2018.05.030

Fermentation of Sugarcane Molasses Using Zymomonas Mobilis for Enhanced Bioethanol Production 2018

Asif Hussain Khoja Sabrina Mohidin Yahya Azra Nawar Dr. Abeera Ayaz Ansari Muneeb Qayyum

Journal of Advanced Research in Applied Sciences and Engineering Technology, Volume 11, Issue 1, Pages 31-38

Impact Factor: -

DOI: -

Physical abrasion method using submerged spike balls to remove algal biofilm from photobioreactors 2017

Asif Hussain Khoja Azra Nawar Naveed Akbar Abeera Ayaz Ansari Muneeb Qayyum Ehsan Ali

BMC Research Notes, Volume 10, Issue 1, Article Number 666

Impact Factor: - | **Citations:** 8

DOI: https://doi.org/10.1186/s13104-017-2995-9

Wastewater treatment by local microalgae strains for CO2 sequestration and biofuel production 2017

Dr. Abeera Ayaz Ansari Asif Hussain Khoja Azra Nawar Muneeb Qayyum Ehsan Ali

Applied Water Science, Volume 7, Issue 7, Pages 4151-4158

Impact Factor: N/A | **Citations:** 60

DOI: 10.1007/s13201-017-0574-9

Dry reforming of methane using different dielectric materials and DBD plasma reactor configurations 2017

Asif Hussain Khoja Muhammad Tahir Nor Aishah Saidina Amin

Energy Conversion and Management, Volume 144, Pages 262-274

Impact Factor: 6.377 | **Quartile:** 1 | **Citations:** 128

DOI: 10.1016/j.enconman.2017.04.057

Experimental study of catalytic degradation of polypropylene by acid-activated clay and performance of Ni as a promoter 2016

Muhammad Ali Uzair Ali Waqas Asif Hussain Khoja Nisar Ahmed

Energy Sources Part A-Recovery Utilization and Environmental Effects, Volume 38, Issue 24, Pages 3618-3624

Impact Factor: 0.527 | **Quartile:** 4 | **Citations:** 8

DOI: 10.1080/15567036.2016.1166163

Conference Proceedings

Plastic recycling via catalytic pyrolysis for energy generation 2024

Ali Raza Dr Asif Hussain Khoja Dr Abeera Ayaz Ansari Waqar ul Habib Khan Dr Salman Raza Naqvi Kinza Rizwan Ghayoor Abbas

24th EEEIC International Conference on Environment and Electrical Engineering, res.country(109,)

Citations: N/A

DOI: Nil

Catalytic pyrolysis of polyethylene waste with Fuller's earth clay and metal oxides under mild conditions 2021

Muhammad Shozab Mehdi Muhammad Taqi Mehran Salman Raza Naqvi Shafiq Uz Zaman Asif Hussain Khoja Ali Bahadar

International Symposium of Reaction Engineering, Catalysis & Sustainable Energy, res.country(157,)

Citations: N/A

DOI: https://doi.org/10.1016/j.matpr.2021.12.552

Partial oxidation of methane using ash derived Co/Zeolite catalyst for hydrogen rich syngas production 2021

Amer Zafar Bilal Khan Asif Hussain Khoja Taqi Mehran Salman Raza Naqvi Majid Ali

International Conference (Virtual) on Sustainable Energy & Catalysis (ICSEC 2021, res.country(157,)

Citations: N/A

DOI: NA

Effect of effective micro-organism on temperature variation in concrete 2019

Muhammad Bilal M Awlad Hossain Abdul Rahman Bin Mohd. Sam Asif Hussain Khoja

2nd International Conference on Sustainable Development in Civil Engineering, res.country(177,)

Citations: N/A

DOI: 10.22581/muet1982

Bioethanol Production from sugarcane Molasses by using Zymomonas mobilis 2014

Asif Hussain Khoja Dr. Abeera Ayaz Ansari Azra Nawar Hamza Ehsan Ehsan Ali

3rd International Conference on Energy, Environment & Sustainable Development (EESD2014), res.country(177,)

Citations: N/A

DOI: https://www.researchgate.net/publication/280925297_Bioethanol_Production_from_sugarcane_Molasses_by_using_Zymomonas_mobilis

Book Chapters

Catalytic pyrolysis of biomass using shape-selective zeolites for bio-oil enhancement 2021

Salman Raza Naqvi Syed Ali Ammar Taqvi M. Taqi Mehran Asif Hussain Khoja Awais Bokhari M. Naqvi Nor AishahSaidina Amin

In: *Book on Bioenergy Resources and Technologies*, Chapter 2, Pages 39-60

Citations: 7

DOI: https://doi.org/10.1016/B978-0-12-822525-7.00002-0

Editorial Activities

Energy Conversion and Management 2025

Reviewed Papers for Journals

Impact Factor: 7.6

Biochar 2025

Reviewed Papers for Journals

Impact Factor: 13.5

Next Energy 2025

Reviewed Papers for Journals

Impact Factor: 9.5

Materials Today Communications 2025

Reviewed Papers for Journals

Impact Factor: 4.5

Energy Conversion and Management 2025

Reviewed Papers for Journals

Impact Factor: 10.9

Small 2025

Reviewed Papers for Journals

Impact Factor: 12.1

Small 2025
Reviewed Papers for Journals
Impact Factor: 13.0

ACS Catalysis 2025
Reviewed Papers for Journals
Impact Factor: 11.7

Results in Engineering 2025
Reviewed Papers for Journals
Impact Factor: 6.0

Results in Engineering 2025
Reviewed Papers for Journals
Impact Factor: 6.0

Carbon Resources Conversion 2025
Reviewed Papers for Journals
Impact Factor: 6.4

Materials Today Chemistry 2024
Reviewed Papers for Journals
Impact Factor: 6.7

Bioresource Technology 2024
Reviewed Papers for Journals
Impact Factor: 9.7

Biomass Conversion and Biorefinery 2024
Reviewed Papers for Journals
Impact Factor: 3.5

Fuel 2024
Reviewed Papers for Journals
Impact Factor: 6.7

Biomass Conversion and Biorefinery 2024
Reviewed Papers for Journals
Impact Factor: 3.5

Fuel 2024
Reviewed Papers for Journals
Impact Factor: 6.7

Science of the Total Environment 2024
Reviewed Papers for Journals
Impact Factor: 8.2

Fuel 2024
Reviewed Papers for Journals
Impact Factor: 6.7

Results in Engineering 2024
Reviewed Papers for Journals
Impact Factor: 6.0

Processes 2024
Reviewed Papers for Journals
Impact Factor: 2.8

Arabian Journal for Science and Engineering 2024
Reviewed Papers for Journals
Impact Factor: 2.6

2024
Reviewed Papers for Journals
Impact Factor: 4.3

2024
Reviewed Papers for Journals
Impact Factor: 6.7

2024

Reviewed Papers for Journals
Impact Factor: 6.7

2024

Reviewed Papers for Journals
Impact Factor: 11.2

2024

Reviewed Papers for Journals
Impact Factor: 00

2024

Reviewed Papers for Journals
Impact Factor: 3.9

International Journal of Hydrogen Energy 2024
Reviewed Papers for Journals
Impact Factor: 7.2

Energy & Fuels 2024
Reviewed Papers for Journals
Impact Factor: 5.3

International Journal of Hydrogen Energy 2024
Reviewed Papers for Journals
Impact Factor: 7.2

Biomass Conversion and Biorefinery 2024
Reviewed Papers for Journals
Impact Factor: 4.0

Applied catalysis 2024
Reviewed Papers for Journals
Impact Factor: 5.5

Journal of Environmental Management 2024
Reviewed Papers for Journals
Impact Factor: 8.7

Applied Energy 2024
Reviewed Papers for Journals
Impact Factor: 11.2

Journal of Environmental Chemical Engineering 2023
Reviewed Papers for Journals
Impact Factor: 7.7

Applied Energy 2023
Reviewed Papers for Journals
Impact Factor: 11.2

Results in Engineering 2023
Reviewed Papers for Journals
Impact Factor: 5.0

Chemical Engineering Research and Design 2023
Reviewed Papers for Journals
Impact Factor: 3.9

Combustion science and technology 2023
Reviewed Papers for Journals
Impact Factor: 1.9

Catalysts 2023
Reviewed Papers for Journals
Impact Factor: 3.9

Applied Energy 2023
Reviewed Papers for Journals

Impact Factor: 11.2

Applied Energy 2023
Reviewed Papers for Journals
Impact Factor: 11.2

Materials Today Chemistry 2023
Reviewed Papers for Journals
Impact Factor: 7.3

International Journal of Hydrogen Energy 2023
Reviewed Papers for Journals
Impact Factor: 7.2

Energy 2023
Reviewed Papers for Journals
Impact Factor: 9.0

Biochar 2023
Reviewed Papers for Journals
Impact Factor: 12.7

Fuel 2023
Reviewed Papers for Journals
Impact Factor: 7.4

Applied Energy 2023
Reviewed Papers for Journals
Impact Factor: 11.446

Applied Energy 2023
Reviewed Papers for Journals
Impact Factor: 11.446

Asia-Pacific Journal of Science and Technology 2023
Reviewed Papers for Journals
Impact Factor: N/A

Energy Conversion and Management 2023
Reviewed Papers for Journals
Impact Factor: 11.533

Results in Engineering 2023
Reviewed Papers for Journals
Impact Factor: N/A

Renewable & Sustainable Energy Reviews 2023
Reviewed Papers for Journals
Impact Factor: 16.799

International Journal of Energy Research 2023
Reviewed Papers for Journals
Impact Factor: N/A

Results in Engineering 2023
Reviewed Papers for Journals
Impact Factor: N/A

Fuel 2023
Reviewed Papers for Journals
Impact Factor: 8.03

Results in Engineering 2023
Reviewed Papers for Journals
Impact Factor: N/A

Results in Engineering 2023
Reviewed Papers for Journals
Impact Factor: N/A

International Journal of Hydrogen Energy 2023

Reviewed Papers for Journals
Impact Factor: 7.139

Journal of Environmental Chemical Engineering 2022
Reviewed Papers for Journals
Impact Factor: 7.968

Applied Energy 2022
Reviewed Papers for Journals
Impact Factor: 11.44

Biomass Conversion and Biorefinery 2022
Reviewed Papers for Journals
Impact Factor: 4.050

International Journal of Green Energy 2022
Reviewed Papers for Journals
Impact Factor: 3.206

Wood Science and Technology 2022
Reviewed Papers for Journals
Impact Factor: 2.898

Applied Energy 2022
Reviewed Papers for Journals
Impact Factor: 11.446

Renewable & Sustainable Energy Reviews 2022
Reviewed Papers for Journals
Impact Factor: 16.799

Catalysts 2022
Reviewed Papers for Journals
Impact Factor: 4.501

Results in Engineering 2022
Reviewed Papers for Journals
Impact Factor: 00

Biochemical Engineering Journal 2022
Reviewed Papers for Journals
Impact Factor: 4.44

Journal of Environmental Chemical Engineering 2022
Reviewed Papers for Journals
Impact Factor: 7.96

Energy Conversion and Management 2022
Reviewed Papers for Journals
Impact Factor: 11.53

Biomass conversion and biorefinery 2022
Reviewed Papers for Journals
Impact Factor: 4.05

Frontiers in Nutrition 2022
Reviewed Papers for Journals
Impact Factor: 6.590

2022
Reviewed Papers for Journals
Impact Factor: 00

2022
Reviewed Papers for Journals
Impact Factor: 11.446

2022
Reviewed Papers for Journals
Impact Factor: 3.252

2022

Reviewed Papers for Journals
Impact Factor: 6.470

2022

Reviewed Papers for Journals
Impact Factor: 0.00

2022

Reviewed Papers for Journals
Impact Factor: 8.910

2022

Reviewed Papers for Journals
Impact Factor: 3.252

2022

Reviewed Papers for Journals
Impact Factor: 8.035

2022

Reviewed Papers for Journals
Impact Factor: 6.470

2022

Reviewed Papers for Journals
Impact Factor: 8.035

2022

Reviewed Papers for Journals
Impact Factor: 2.847

2022

Reviewed Papers for Journals
Impact Factor: 5.90

2022

Reviewed Papers for Journals
Impact Factor: 9.297

2022

Reviewed Papers for Journals
Impact Factor: 6.6

2022

Reviewed Papers for Journals
Impact Factor: 5.164

2022

Reviewed Papers for Journals
Impact Factor: 5.90

2022

Reviewed Papers for Journals
Impact Factor: 3.251

2022

Reviewed Papers for Journals
Impact Factor: 2.83

2022

Reviewed Papers for Journals
Impact Factor: 5.062

2022

Reviewed Papers for Journals
Impact Factor: 5.90

2022

Reviewed Papers for Journals
Impact Factor: 5.90

2022

Reviewed Papers for Journals
Impact Factor: 5.90

2022

Reviewed Papers for Journals
Impact Factor: 4.14

2022

Reviewed Papers for Journals
Impact Factor: 3.251

2022

Reviewed Papers for Journals
Impact Factor: 0.00

2021

Reviewed Papers for Journals
Impact Factor: 5.90

2021

Reviewed Papers for Journals
Impact Factor: 4.14

2021

Reviewed Papers for Journals
Impact Factor: 3.004

2021

Reviewed Papers for Journals
Impact Factor: 3.004

2021

Reviewed Papers for Journals
Impact Factor: 3.004

2021

Reviewed Papers for Journals
Impact Factor: 6.789

2021

Reviewed Papers for Journals
Impact Factor: 6.1

2021

Reviewed Papers for Journals
Impact Factor: 4.987

2021

Reviewed Papers for Journals
Impact Factor: 5.816

2021

Reviewed Papers for Journals
Impact Factor: 5.263

2021

Reviewed Papers for Journals
Impact Factor: 4.14

2021

Reviewed Papers for Journals
Impact Factor: 5.263

2021

Reviewed Papers for Journals
Impact Factor: 5.164

2021

Reviewed Papers for Journals

Impact Factor: 5.816

2021

Reviewed Papers for Journals
Impact Factor: 2.602

2021

Reviewed Papers for Journals
Impact Factor: 4.92

2021

Reviewed Papers for Journals
Impact Factor: 0.939

2021

Reviewed Papers for Journals
Impact Factor: 2.602

2020

Reviewed Papers for Journals
Impact Factor: 1.257

2020

Reviewed Papers for Journals
Impact Factor: 0

2020

Reviewed Papers for Journals
Impact Factor: 7.539

2020

Reviewed Papers for Journals
Impact Factor: 5.77

2020

Reviewed Papers for Journals
Impact Factor: 4.008

2020

Reviewed Papers for Journals
Impact Factor: 0

2020

Reviewed Papers for Journals
Impact Factor: 0

2020

Reviewed Papers for Journals
Impact Factor: 3.343

2020

Reviewed Papers for Journals
Impact Factor: 5.108

2019

Reviewed Papers for Journals
Impact Factor: 2.358

2019

Reviewed Papers for Journals
Impact Factor: 1.676

2019

Reviewed Papers for Journals
Impact Factor: 2.36

2019

Reviewed Papers for Journals
Impact Factor: 1.676

2018

Reviewed Papers for Journals
Impact Factor: 1.676

2018

Reviewed Papers for Journals
Impact Factor: 2.8

2018

Reviewed Papers for Journals
Impact Factor: 2.914