Salman Raza Naqvi

Associate Professor

School of Chemical & Materials Engineering

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Contact: 051874138
LinkedIn:

About

Dr. Salman Raza Naqvi is working as Associate Professor in the School of Chemical & Materials Engineering. Dr. Salman Raza Naqvi has a PhD in Green Technology. Dr. Salman Raza Naqvi has published 194 research articles & conference papers having a citation count of 8209, carried out 25 projects and filed 0 intellectual property.

Qualifications

PhD in Green Technology 2012 - 2015
Petronas Technology University , Malaysia

MS in Process Chemical Engineering 2006 - 2009
Technical University of Dortmund , Germany

BE in Chemical Engineering 2002 - 2006
BZU, Multan , Pakistan

Experience

Associate Professor 2023- Present
School of Chemical & Materials Engineering

Associate Professor 2021 - 2023
School of Chemical & Materials Engineering

Assistant Professor 2021 - 2021
School of Chemical & Materials Engineering

Assistant Professor 2019 - 2021
School of Chemical & Materials Engineering

Assistant Professor 2016 - 2019
School of Chemical & Materials Engineering

Assistant Professor 2015 - 2016
School of Chemical & Materials Engineering

Lecturer 2010 - 2015
School of Chemical & Materials Engineering

Assistant Professor 2015 - 2021
NUST , H-12

Postdoctoral Researcher 2015 - 2018
University of Twente , Enschede, Netherlands

Research Officer 2012 - 2015
Universiti Teknologi PETRONAS , Bandar Seri Iskandar, Perak, Malaysia

Lecturer 2009 - 2010
NFC-IET , Multan

Researcher 2008 - 2009
BASF SE , Ludwigshafen, Germany

Awards

University Best Researcher Awards- 2021 2022

Gold Medal 2014

Best Presenter Award at International Conference on Business, Sciences and Technology, Thailand on Rice husk pyrolysis using new drop type reactor.

Gold Medal 2014

Gold medal at International Innovation Festival

GOLD Medal 2013

GOLD Medal at 27th International Technology exhibition on science and technology (ITEX), kuala lumpur on "Design of drop type pyrolyzer for bio-oil production"

School / College Best Researcher Award -2022

Professional Memberships

PEC Since 2006

Research Projects

National Projects

Integrated experimental & machine learning strategies to predict & optimize products from biomass/waste thermochemical conversion to bioenergy 2022

Funding Agency: Universiti Teknologi Malaysia
Amount: PKR 2,563,677.00
Status: Approved_inprocess

Gasification of leather waste and carbon dioxide capture 2022

Funding Agency: NUST
Amount: PKR 100,000.00
Status: Approved_inprocess

Deployment of Indigenously developed Energy Sub Metering Technology at NSTP Building 2022

Funding Agency: NUST
Amount: PKR 200,000.00
Status: Completed

Turning waste plastic into Bricks 2022

Funding Agency: PSF
Amount: PKR 9,790,000.00
Status: Approved_inprocess

Development of Low–Cost Plastic Waste Recycling Machine 2021

Funding Agency: PSF
Amount: PKR 600,000.00
Status: Completed

Advanced thermal conversion of biomass for bioenergy: process kinetics & predictive modelling using machine learning algorithms 2021

Funding Agency: Universiti Teknologi, Malaysia (UTM)
Amount: PKR 2,269,217.00
Status: Completed

Research Stays for University Academics & Scientists (RSUAS) 2020

Funding Agency: DAAD
Amount: PKR 756,102.00
Status: Completed

Production of High Yield and quality carbo nadoes material from integrated thermos catalaytic reforming of biomass 2020

Funding Agency: DAAD German Academic Exchage Services
Amount: PKR 700,000.00
Status: Completed

Development of activated carbon material from biomass for CO2 capture and super capacitor application 2020

Funding Agency: Universiti Teknologi, Malaysia
Amount: PKR 1,192,000.00
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 of high-capacity surface-engineered MXene composite for heavy metal removal from industrial wastewater 2021
Funding Agency: NUST
Amount: PKR 300,000.00
Status: Completed

Activated Carbon Electrodes from Sustainable Resources Materials for Economical Sodium Sulfur Batteries 2021
Funding Agency: British Council
Amount: PKR 873,757.00
Status: Completed

Circular economy: recovery and restoration of glass fibers for composite materials. 2022
Funding Agency: HEC
Amount: PKR 12,100,000.00
Status: Approved_inprocess

Recycling of Glass Fibers from Composite Waste for High-Tech Applications 2021
Funding Agency: NUST
Amount: PKR 300,000.00
Status: Completed

Sustainability Criteria for Assessing Oily Sludge Carbon Based Magnetic Nanocomposite or Nano Silica from Rice Husk for Oilfield Produced Water Treatments 2020
Funding Agency: IsDB-TWAS
Amount: PKR 1,560,710.00
Status: Completed

Design and Development of Highly Efficient Energy Storage Batteries 2020
Funding Agency: HEC
Amount: PKR 2,480,000.00
Status: Approved_inprocess

Correlation of PSD with surface quality of fused silica during lapping and polishing process 2019
Funding Agency: NESCOM
Amount: PKR 150,000.00
Status: Approved_inprocess

Production of high yield & quality carbonaceous material from indigenous biomass pyrolysis in a sustainable circular bio-economy 2020
Funding Agency: IsDB-TWAS
Amount: PKR 1,674,968.00
Status: Approved_inprocess

Development of low cost, highly efficient with recyclable iron modified microlagal-derived bio-char filter for heavy metals removal: lab scale as well as on site waste water treatment 2020
Funding Agency: Kurita Water and Environment Foundation (KWEF), Japan
Amount: PKR 258,562.00
Status: Completed

Biogas Production and up-gradation using novel digester from NUST organic Waste 2020
Funding Agency: NUST
Amount: PKR 570,000.00
Status: Approved_inprocess

Develop an innovative technique for processing the olive fruit waste to achieve leftover oil for edible use under Competitive Research Grants 2021
Funding Agency: Pakistan Agricultural Council
Amount: PKR 7,013,000.00
Status: Completed

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

Biomass/sludge blends gasification in lab scale bubbling fluidized bed gasifier towards Energy 2019

Funding Agency: USPCASE
Amount: PKR 600,000.00
Status: Completed

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

Experimental & modeling strategies of biomass thermochemical conversion to bioenergy 2022

Client: Technical University of Ostrava
Amount: PKR 557,212.00
Status: Completed

International Projects

Research Articles

Recovery and restoration of glass fibers from end-of-life composite waste through pyrolysis and partial oxidation processes combined with hot alkaline surface treatments 2024

A. Rafay Muhammad Irfan Salman Raza Naqvi Malik Adeel Umer M. A. Rehman Mohsin Saleem Muhammad Shoaib Butt Asad Ullah Khan
Polymer Composites, Pages 1-14
Impact Factor: 4.800 | **Quartile:** 1
DOI: https://doi.org/10.1002/pc.28916

Biodiesel production from marine macroalgae Ulva lactuca lipids using novel Cu-BTC@AC catalyst: Parametric analysis and optimization 2024

Muhammad Zubair Yameen Dagmar Juchelková Salman Raza Naqvi Dr. Tayyaba Noor Arshid Mahmood Ali Khurram Shahzad Muhammad Imtiaz Rashid Aishah Binti Mahpudz
Energy Conversion and Management: X, Volume:23, Article Number: 100628
Impact Factor: 7.1 | **Quartile:** 1 | **Citations:** 9
DOI: 10.1016/j.ecmx.2024.100628

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

Prediction of hydrogen yield from supercritical gasification process of sewage sludge using machine learning and particle swarm hybrid strategy 2024

Muhammad Nouman Aslam Khan Zeeshan Ul Haq Hafeez Ullah Salman Raza Naqvi Usama Ahmed Muhammad Zaman Nor Aishah Saidina Amin
International Journal of Hydrogen Energy, Volume 54, 7 February 2024, Pages 512-525
Impact Factor: 7.139 | **Quartile:** 1 | **Citations:** 36
DOI: 10.1016/j.ijhydene.2023.01.033

Assessment of thermokinetic behaviour of tannery sludge in slow pyrolysis process through artificial neural network 2023

Arslan Khan Imtiaz Ali Salman Raza Naqvi Hamad AlMohamadi Muhammad Shahbaz Arshid Mahmood Ali Khurram Shahzad
Chemosphere, Volume 337, Article Number 139226
Impact Factor: 8.8 | **Quartile:** 1 | **Citations:** 20
DOI: 10.1016/j.chemosphere.2023.139226

An integrated approach for the extraction of lipids from marine macroalgae consortium using RSM optimization and thermo-kinetic analysis 2023

Hamad AlMohamadi Majed Alamoudi Muhammad Zubair Yameen Salman Raza Naqvi

Chemosphere , Volume 338, Article Number 139623

Impact Factor: 8.8 | **Quartile:** 1 | **Citations:** 6

DOI: https://doi.org/10.1016/j.chemosphere.2023.139623

Fabrication of a novel nanocomposite (TiO2/WO3/V2O5) by hydrothermal method as catalyst for hazardous waste treatment 2023

Umer Younas Awais Ahmad Aftab Islam Faisal Ali Muhammad Pervaiz Aimon Saleem Muhammad Waseem Ahmed Muteb Aljuwayid Mohamed A. Habila Salman Raza Naqvi

Fuel , Volume 349, Article Number 128668

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 11

DOI: https://doi.org/10.1016/j.fuel.2023.128668

Techno-economic assessment of sunflower husk pellets treated with waste glycerol for the Bio-Hydrogen production– A Simulation-based case study 2023

Bilal Kazmi Syed Ali Ammar Taqvi Salman Raza Naqvi Asif Ali Mirani Muhammad Shahbaz Muhammad Naqvi Dagmar Juchelková Gaber E. Eldesoky

Fuel , Volume 348, Article Number 128635

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 16

DOI: https://doi.org/10.1016/j.fuel.2023.128635

Synthesis, chracterization, and analytical application of silver dopamine magnetic nanomaterial 2023

Rahat Nawaz Zarayb Hussan Fahad Ali Naeem Akhtar Batool Fatima Muhammad Najam ul Haq Awais Bokhari Salman Raza Naqvi Mohamed Ouladsmane Saadat Majeed

Fuel , Volume 348, Article Number 128303

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 4

DOI: https://doi.org/10.1016/j.fuel.2023.128303

Catalytic pyrolysis of rice husk over defect-rich beta zeolites for biofuel production 2023

Ali Azfar Zaidi Arslan Khan Hamad AlMohamadi Muhammad Waqas Anjum Imtiaz Ali Salman Raza Naqvi Shinya Kokuryo Koji Miyake Norikazu Nishiyama

Fuel , Volume 348, Article Number 128624

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 20

DOI: https://doi.org/10.1016/j.fuel.2023.128624

Optimization of olive oil extraction from olive pomace using solvent extraction and response surface methodology analysis of oil yield 2023

Rifat Mehdi Salman Raza Naqvi Abdul Ahad Khan Asif Ali Mirani

Fuel , Volume 348, Article Number 128633

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 13

DOI: https://doi.org/10.1016/j.fuel.2023.128633

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

Thermo-economic evaluation of supercritical CO2 Brayton cycle integrated with absorption refrigeration system and organic Rankine cycle for waste heat recovery 2023

Wahab Mubashir Muhammad Adnan Muhammad Zaman Muhammad Imran Salman Raza Naqvi Atif Mehmood

Thermal Science and Engineering Progress , Volume 44, Article Number 102073

Impact Factor: 4.8 | **Quartile:** 1 | **Citations:** 20

DOI: https://doi.org/10.1016/j.tsep.2023.102073

Impact of Mari Gas and RLNG Mixture on Pre-Existing Ammonia Plant 2023

Fahim Uddin Syed Ali Ammar Taqvi Salman Raza Naqvi Fatima Asad Hamza Nauman Umair Sikander Sajid Muhbat

Iranian Journal of Chemistry and Chemical Engineering-International English Edition, Volume 42, Issue 9, Pages 2928-2937

Impact Factor: 1.000 | **Quartile:** 4

DOI: 1021-9986/2023/9/3146-3155 10/$/6.00

Optimizing Design and Operational Parameters for Enhanced Mixing and Hydrodynamics in Bubbling Fluidized Bed Gasifiers: An Experimental and CFD-based Approach 2023

Naveed Raza Rifat Mehdi Muhammad Ahsan Muhammad Taqi Mehran Salman Raza naqvi Emad UdDin

Applied Sciences , Volume: 13, Issue: 16, Article Number:9317

Impact Factor: 2.7 | **Quartile:** 2

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

A comprehensive review of the methane decomposition using a gliding arc discharge reactor for hydrogen generation 2023

Atif Khan Muhammad Rashid Abdul Rehman Faisal Saleem Salman Raza Naqvi Shabana Afzal Umair Y. Qazi Waqar Ahmad Iftikhar Nisar Butt Khalid Mahmood

Journal of the Energy Institute, Volume 109, Article Number 101309

Impact Factor: 5.7 | **Quartile:** 2 | **Citations:** 14

DOI: https://doi.org/10.1016/j.joei.2023.101309

Bifunctional CuS/Cl-terminated greener MXene electrocatalyst for efficient hydrogen production by water splitting 2023

Bilal Sarfraz Muhammad Taqi Mehran Faisal Shahzad Sajjad Hussain Salman Raza Naqvi Hassnain Abbas Khan Khalid Mahmood

RSC Advances , Volume 13, Issue 32, Pages 22017-22028

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 15

DOI: https://doi.org/10.1039/D3RA02581K

Aspen plus simulation model of municipal solid waste gasification of metropolitan city for syngas production 2023

Muzaffar Mehdi Syed Ali Ammar Taqvi Asif Ahmed Shaikh Saad Khan Salman Raza Naqvi Muhammad Shahbaz Dagmar Juchelková

Fuel , Volume 344, Article Number 128128

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 30

DOI: https://doi.org/10.1016/j.fuel.2023.128128

Process optimization, kinetic, and thermodynamic studies of biodiesel production using KOH-modified bio-carbon catalyst derived from marine macroalgae 2023

Muhammad Zubair Yameen Salman Raza Naqvi Hamad AlMohamadi Shuang Wang

Carbon Letters , Pages 1-20

Impact Factor: 4.5 | **Quartile:** 2 | **Citations:** 15

DOI: https://doi.org/10.1007/s42823-023-00541-z

Development of high-capacity surface-engineered MXene composite for heavy metal Cr (VI) removal from industrial wastewater 2023

Umair Ali Asif Khalid Mahmood Salman Raza Naqvi Muhammad Taqi Mehran Tayyaba Noor

Chemosphere , Volume 326, Article Number 138448

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 21

DOI: https://doi.org/10.1016/j.chemosphere.2023.138448

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

Influence of Co_3O_4-based catalysts on N_2O catalytic decomposition and NO conversion 2023

Abrar Inayat Lisandra Rocha-Meneses Muhammad Ayoub Sami Ullah Ahmad Z. Abdullah Salman Raza Naqvi Aamir H. Bhat

Environmental Science and Pollution Research, Pages 1-12

Impact Factor: 5.8 | **Quartile:** 1 | **Citations:** 5

DOI: https://doi.org/10.1007/s11356-023-27371-w

Gamma irradiated structural modification of $Ti_3C_2T_x$ for high performance supercapacitors and the hydrogen evolution reaction 2023

Muhammad Taqi Mehran Mutawara Mahmood Baig Faisal Shahzad Salman Raza Naqvi Sajid Iqbal

New Journal of Chemistry, Volume:47, Issue:15, Pages 7205-7210

Impact Factor: 2.7000 | **Quartile:** 2

DOI: https://doi.org/10.1039/D2NJ06243G

A systematic and critical review on effective utilization of artificial intelligence for bio-diesel production techniques 2023

Junaid Ahmad Muhammad Awais Umer Rashid Chawalit Ngamcharussrivichai Salman Raza Naqvi Imtiaz Ali

Fuel , Volume 338, Article Number 127379

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 42

DOI: https://doi.org/10.1016/j.fuel.2022.127379

Process design and techno-economic analysis of dual hydrogen and methanol production from plastics using energy integrated system 2023

Ali A. Al-Qadri Usama Ahmed Abdul Gani Abdul Jameel Nabeel Ahmad Umer Zahid Sharif H. Zein Salman Raza Naqvi

International Journal of Hydrogen Energy, Volume 48, Issue 29, Pages 10797-10811

Impact Factor: 7.139 | **Quartile:** 2 | **Citations:** 37

DOI: https://doi.org/10.1016/j.ijhydene.2022.11.266

Advances in production & activation of marine macroalgae-derived biochar catalyst for sustainable biodiesel production 2023

Muhammad Zubair Yameen Hamad AlMohamadi Salman Raza Naqvi Tayyaba Noor Wei-Hsin Chen Nor Aishah Saidina Amin

Fuel , Volume 337, Article Number 127215

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 38

DOI: https://doi.org/10.1016/j.fuel.2022.127215

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

Algal-derived biochar as an efficient adsorbent for removal of Cr (VI) in textile industry wastewater: Non-linear isotherm, kinetics and ANN studies 2023

Abdul Ahad Khan Salman Raza Naqvi Imtiaz Ali Muazzam Arshad Hamad AlMohamadi Umair Sikander

Chemosphere , Volume 316, Article Number 137826

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 65

DOI: https://doi.org/10.1016/j.chemosphere.2023.137826

Optimization based comparative study of machine learning methods for the prediction of bio-oil produced from microalgae via pyrolysis 2023

Hafeez Ullah Zeeshan Ul Haq Muhammad Nouman Aslam Khan Salman Raza Naqvi Muhammad Ahsan Jiawei Wang

Journal of Analytical and Applied Pyrolysis, Volume 170, ID:105879

Impact Factor: 6.437 | **Quartile:** 1 | **Citations:** 36

DOI: 10.1016/j.jaap.2023.105879

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

Polygeneration syngas and power from date palm waste steam gasification through an Aspen Plus process modeling 2023

Arshid Mahmood Ali Muhammad Shahbaz Khurram Shahzad Muddasser Inayat Salman Raza Naqvi Abdulrahim Ahmad Al-Zahrani Muhammad Imtiaz Rashid Mohammad Rehan Aishah Binti Mahpudz

Fuel , Volume 332, Part 1, Article Number 126120

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 41

DOI: https://doi.org/10.1016/j.fuel.2022.126120

Life cycle assessment of a biomass based chemical looping combustion 2023

John Patrick Mercado Aristotle T. Ubando Jeremias A. Gonzaga Salman Raza Naqvi

Environmental Research , Volume 217, Article Number 114876

Impact Factor: 8.431 | **Quartile:** 1 | **Citations:** 21

DOI: https://doi.org/10.1016/j.envres.2022.114876

Applications of machine learning in thermochemical conversion of biomass-A review 2023

Muzammil Khan Salman Raza Naqvi Zahid Ullah Syed Ali Ammar Taqvi Muhammad Nouman Aslam Khan Wasif Farooq Muhammad Taqi Mehran Dagmar Juchelková Libor Štěpanec

Fuel , Volume 332, Part 1, Article Number 126055

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 134

DOI: https://doi.org/10.1016/j.fuel.2022.126055

Statistical optimization of hydrogen production from bio-methanol steam reforming over Ni-Cu/Al2O3 catalysts 2023

Yi-Kai Chih Wei-Hsin Chen Siming You Chun-Han Hsu Hong-Ping Lin Salman Raza Naqvi Veeramuthu Ashokkumar

Fuel, Volume 331, Part 1, Article Number 125691

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 36

DOI: https://doi.org/10.1016/j.fuel.2022.125691

Catalytic pyrolysis of guaiacol on Enteromorpha-based biochar: A combination of experiments and density functional theory 2023

Xuping Yang Bin Cao Ding Jiang Sirong He Chuan Yuan Hongping Li Salman Raza Naqvi Shuang Wang

Fuel Processing Technology, Volume 239, Article Number 107527

Impact Factor: 8.129 | **Quartile:** 1 | **Citations:** 26

DOI: https://doi.org/10.1016/j.fuproc.2022.107527

Investigation of combustion performance of tannery sewage sludge using thermokinetic analysis and prediction by artificial neural network 2022

Arslan Khan Imtiaz Ali Wasif Farooq Salman Raza Naqvi Muhammad Taqi Mehran Ameen Shahid Rabia Liaquat Muhammad Waqas Anjum Muhammad Naqvi

Case Studies in Thermal Engineering, Volume 40, Article Number 102586

Impact Factor: 6.268 | **Quartile:** 1 | **Citations:** 37

DOI: https://doi.org/10.1016/j.csite.2022.102586

A review on properties, challenges and commercial aspects of eco-friendly biolubricants productions 2022

Uzair Ahmad Salman Raza Naqvi Imtiaz Ali Muhammad Naqvi Saira Asif Awais Bokhari Dagmar Juchelková Jiří Jaromír Klemeš

Chemosphere , Volume 309, Part 1, Article Number 136622

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 38

DOI: https://doi.org/10.1016/j.chemosphere.2022.136622

Anaerobic digestion of sewage sludge for biogas & biohydrogen production: State-of-the-art trends and prospects 2022

Muhammad Usmaan Bin Khawer Salman Raza Naqvi Imtiaz Ali Muazzam Arshad Dagmar Juchelková Muhammad Waqas Anjum Muhammad Naqvi

Fuel, Volume 329, Article Number 125416

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 80

DOI: https://doi.org/10.1016/j.fuel.2022.125416

Developing pretreatment methods to promote the production of biopolymer and bioethanol from residual algal biomass (RAB) 2022

Fares AlMomani Moayyad Shawaqfah Malak Alsarayreh Majeda Khraisheh Bassim H. Hameed Salman Raza Naqvi Mohammed Berkani Sunita Varjani

Algal Research , Volume 68, Article Number 102895

Impact Factor: 5.1 | **Quartile:** 1 | **Citations:** 14

DOI: https://doi.org/10.1016/j.algal.2022.102895

Comparative study of machine learning methods integrated with genetic algorithm and particle swarm optimization for bio-char yield prediction 2022

Zeeshan Ul Haq Hafeez Ullah Muhammad Nouman Aslam Khan Salman Raza Naqvi Abdul Ahad Nor Aishah Saidina Amin

Bioresource Technology , Volume 363, Article Number 128008

Impact Factor: 11.4 | **Quartile:** 1 | **Citations:** 54

DOI: https://doi.org/10.1016/j.biortech.2022.128008

Exergy, advance exergy, and exergo-environmental based assessment of alkanol amine- and piperazine-based solvents for natural gas purification 2022

Bilal Kazmi Syed Ali Ammar Taqvi Faizan Raza Junaid Haider Salman Raza Naqvi Muhammad Saad Khan Abulhassan Ali

Chemosphere , Volume 307, Part 4, Article Number 136001

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 21

DOI: https://doi.org/10.1016/j.chemosphere.2022.136001

Recent progress in microalgae-derived biochar for the treatment of textile industry wastewater 2022

Abdul Ahad Khan Jawad Gul Salman Raza Naqvi Imtiaz Ali Wasif Farooq Rabia Liaquat Hamad AlMohamadi Libor Štěpanec Dagmar Juchelková

Chemosphere , Volume 306, Article Number 135565

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 119

DOI: https://doi.org/10.1016/j.chemosphere.2022.135565

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

Co-pyrolysis of the Chinese liquor industry waste and bamboo waste, elucidation of the pyrolysis reaction chemistry, and TG-FTIR-MS based study of the evolved gases 2022

Zishan Liu Azeem Asghar Changjun Hou Imtiaz Ali Salman Raza Naqvi Ning Wang Hui Zhu Muhammad Aamer Mehmood Chen-Guang Liu

Fuel, Volume 326, Article Number 124976

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 31

DOI: https://doi.org/10.1016/j.fuel.2022.124976

Thermo-economic analysis of integrated gasification combined cycle co-generation system hybridized with concentrated solar power tower 2022

Muhammad Adnan Muhammad Zaman Atta Ullah Afsin Gungor Muhammad Rizwan Salman Raza Naqvi

Renewable Energy , Volume 198, Pages 654-666

Impact Factor: 8.634 | **Quartile:** 1 | **Citations:** 21

DOI: https://doi.org/10.1016/j.renene.2022.08.088

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

Biolubricant production from castor oil using iron oxide nanoparticles as an additive: Experimental, modelling and tribological assessment 2022

Uzair Ahmad Salman Raza Naqvi Imtiaz Ali Faisal Saleem Muhammad Taqi Mehran Umair Sikander Dagmar Juchelková

Fuel, Volume 324, Part A, Article Number 124565

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 38

DOI: https://doi.org/10.1016/j.fuel.2022.124565

Current technologies of biochemical conversion of food waste into biogas production: A review 2022

Pradeshwaran Vijayakumar Saravanakumar Ayyadurai Kantha Deivi Arunachalam Gaurav Mishra Wei-Hsin Chen Joon Ching Juan Salman Raza Naqvi

Fuel, Volume 323, Article Number 124321

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 38

DOI: https://doi.org/10.1016/j.fuel.2022.124321

Parametric study for N2O conversion and reduction using cobalt-oxide-based catalysts 2022

Lisandra Rocha-Meneses Abrar Inayat Muhammad Ayoub Sami Ullah Salman Raza Naqvi Sarah Farrukh Ahmad Mustafa Ahmad Z. Abdullah Aamir H. Bhat

Environmental Progress and Sustainable Energy, Pages 1- 21, Article Number e13982

Impact Factor: 2.824 | **Quartile:** 3 | **Citations:** 1

DOI: https://doi.org/10.1002/ep.13982

Hydrogen production optimization from sewage sludge supercritical gasification process using machine learning methods integrated with genetic algorithm 2022

Zeeshan Ul Haq Hafeez Ullah Muhammad Nouman Aslam Khan Salman Raza Naqvi Muhammad Ahsan

Chemical Engineering Research and Design, Volume 184, Pages 614-626

Impact Factor: 4.119 | **Quartile:** 2 | **Citations:** 59

DOI: https://doi.org/10.1016/j.cherd.2022.06.020

Utilization of Dairy Scum Waste as a Feedstock for Biodiesel Production via Different Heating Sources for Catalytic Transesterification 2022

Siti Aminah Mohd Johari Muhammad Ayoub Abrar Inayat Sami Ullah Maliha Uroos Salman Raza Naqvi Sarah Farrukh

ChemBioEng Reviews, Volume 9, No. 6, Pages 1-28

Impact Factor: 6.207 | **Quartile:** 1 | **Citations:** 7

DOI: https://doi.org/10.1002/cben.202200003

Artificial neural networks for the prediction of biochar yield: A comparative study of metaheuristic algorithms 2022

Muzammil Khan Zahid Ullah Ondřej Mašek Salman Raza Naqvi Muhammad Nouman Aslam Khan

Bioresouce Technology, Volume 355, Article Number 127215

Impact Factor: 11.4 | **Quartile:** 1 | **Citations:** 93

DOI: https://doi.org/10.1016/j.biortech.2022.127215

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

Graphene-Integrated Nonwoven Polypropylene Fabric for Simultaneous Filtering of Particulate Matter and Volatile Organic Compounds 2022

Hong Phuong Nguyen Thi Kieu Trang Pham Thi Nam The Tran Thuan Huu Mai Salman Raza Naqvi Woo Jin Chung Xuan Hoan Nguyen D. Duc Nguyen D. Duong La

Waste and Biomass Valorization, Pages 1- 8

Impact Factor: 3.449 | **Quartile:** 3 | **Citations:** 7

DOI: https://doi.org/10.1007/s12649-022-01841-7

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

Potential application of essential and fat oils of Myristica Argentea Warb for pharmacochemical industry and green energy production: experiment and modeling 2022

Muhammad Ikhsan Taipabu Hanoch Julianus Sohilait Karthickeyan Viswanathan Wei Wu Eirene Grace Fransina Salman Raza Naqvi Faruk Jayanto Kelutur

Biomass Conversion and Biorefinery, Pages 1-18

Impact Factor: 4.050 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.1007/s13399-022-02836-z

Comparative hydrodynamics study of fluidized bed gasifier incorporating static and rotating air distributor plates: A CFD approach 2022

Naveed Raza Muhammad Ahsan Muhammad Taqi Mehran Salman Raza Naqvi Iftikhar Ahmad

Powder Technology, Volume 405, Article Number 117500

Impact Factor: 5.134 | **Quartile:** 1 | **Citations:** 10

DOI: https://doi.org/10.1016/j.powtec.2022.117500

An integrated framework of data-driven, metaheuristic, and mechanistic modeling approach for biomass pyrolysis 2022

Zahid Ullah Muzammil Khan Salman Raza Naqvi Muhammad Nouman Aslam Khan Wasif Farooq Muhammad Waqas Anjum Muhammad Waqas Yaqub Hamad AlMohamadi Fares Almomani

Process Safety and Environmental Protection, Volume 162, Pages 337-345

Impact Factor: 6.158 | **Quartile:** 1 | **Citations:** 42

DOI: https://doi.org/10.1016/j.psep.2022.04.013

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

One-Step Biodiesel Production from Waste Cooking Oil Using CaO Promoted Activated Carbon Catalyst from Prunus persica Seeds 2022

Ayesha Hameed Salman Raza Naqvi Umair Sikander Wei-Hsin Chen

Catalysts, Volume 12(6), Article Number 592

Impact Factor: 4.146 | **Quartile:** 2 | **Citations:** 27

DOI: https://doi.org/10.3390/catal12060592

Emerging potential of spent coffee ground valorization for fuel pellet production in a biorefinery 2022

A. E. Atabani Eyas Mahmoud Muhammed Aslam Salman Raza Naqvi Dagmar Juchelková Shashi Kant Bhatia Irfan Anjum Badruddin T. M. Yunus Khan Anh Tuan Hoang Petr Palacky

Environment, Development and Sustainability, Pages 1-39

Impact Factor: 3.219 | **Quartile:** 2 | **Citations:** 38

DOI: https://doi.org/10.1007/s10668-022-02361-z

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

Kinetic and thermodynamic analyses for pyrolysis of hemp hurds using discrete distributed activation energy model 2022

Panuphong Mankeed Thossaporn Onsree Salman Raza Naqvi Sirivatch Shimpalee Nakorn Tippayawong

Case Studies in Thermal Engineering, Volume 31, Article Number 101870

Impact Factor: 4.724 | **Quartile:** 1 | **Citations:** 20

DOI: https://doi.org/10.1016/j.csite.2022.101870

Simulation of steam gasification of halophyte biomass for syngas production using Aspen Plus® 2022

Saud Hashmi Syed Ali Ammar Taqvi Zainul Abideen Jazib Pervaiz Ahmed Muhammad Talha Muhammad Amir Bhatti Haris Shahid Salman Raza Naqvi Fares Almomani

Biomass Conversion and Biorefinery, Pages 1-10

Impact Factor: 4.987 | **Quartile:** 1 | **Citations:** 10

DOI: https://doi.org/10.1007/s13399-022-02429-w

Monitoring lipids profile, CO2 fixation, and water recyclability for the economic viability of microalgae Chlorella vulgaris cultivation at different initial nitrogen 2022

Wasif Farooq Salman Raza Naqvi Muhammad Sajid Anupama Shrivastav Kanhaiya Kumar

Journal of Biotechnology, Volume 345, Pages 30-39

Impact Factor: 3.307 | **Quartile:** 2 | **Citations:** 37

DOI: https://doi.org/10.1016/j.jbiotec.2021.12.014

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

Investigation of Biomass Integrated Air Gasification Regenerative Gas Turbine Power Plants 2022

Momin Elhadi Abdalla Salah Ahmed Abdalla Syed Ali Ammar Taqvi Salman Raza Naqvi Wei-Hsin Chen

Energies, Volume 15(3), Article Number 741

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 11

DOI: https://doi.org/10.3390/en15030741

Simultaneous fault diagnosis based on multiple kernel support vector machine in nonlinear dynamic distillation column 2022

Syed Ali Ammar Taqvi Haslinda Zabiri Fahim Uddin Muhammad Naqvi Lemma Dendena Tufa Majida Kazmi Saddaf Rubab Salman Raza Naqvi Abdulhalim Shah Maulud

Energy Science & Engineering , Pages 1-26

Impact Factor: 4.170 | **Quartile:** 2 | **Citations:** 21

DOI: http://doi.org/10.1002/ese3.1058

Thermodynamic and economic assessment of cyano functionalized anion based ionic liquid for CO2 removal from natural gas integrated with, single mixed refrigerant liquefaction process for clean energy 2022

Bilal Kazmi Junaid Haider Syed Ali Ammar Taqvi Muhammad Abdul Qyyum Syed Imran Ali Zahoor Ul Hussain Awan Hankwon Lim Muhammad Naqvi Salman Raza Naqvi

Energy , Volume 239, Article Number 122425

Impact Factor: 8.9 | **Quartile:** 1 | **Citations:** 20

DOI: https://doi.org/10.1016/j.energy.2021.122425

A state-of-the-art review on spent coffee ground (SCG) pyrolysis for future biorefinery 2022

A.E. Atabani Imtiaz Ali Salman Raza Naqvi Irfan Anjum Badruddin Muhammad Aslam Eyas Mahmoud Fares Almomani Dagmar Juchelkova M.R. Atelge T.M. Yunus Khan

Chemosphere , Volume 286, Part 2, Article Number 131730

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 67

DOI: https://doi.org/10.1016/j.chemosphere.2021.131730

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

Evolved Gas Analysis and Kinetics of Catalytic and Non-Catalytic Pyrolysis of Microalgae Chlorella sp. Biomass With Ni/θ-Al2O3 Catalyst via Thermogravimetric Analysis 2021

Imtiaz Ali Wasif Farooq Salman Raza Naqvi Mohd Sajid Hassnain Abbas Khan Sagir Adamu

Frontier in Energy Research, Volume 9, Article Number 775037

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

DOI: 10.3389/fenrg.2021.775037

Machine learning prediction of pyrolytic gas yield and compositions with feature reduction methods: Effects of pyrolysis conditions and biomass characteristics 2021

Qinghui Tang Yingquan Chen Haiping Yang Ming Liu Haoyu Xiao Shurong Wang Hanping Chen Salman Raza Naqvi

Bioresource Technology , Volume 339, Article Number 125581

Impact Factor: 11.889 | **Quartile:** 1 | **Citations:** 129

DOI: https://doi.org/10.1016/j.biortech.2021.125581

Progress of the Pyrolyzer Reactors and Advanced Technologies for Biomass Pyrolysis Processing 2021

Mohsin Raza Abrar Inayat Ashfaq Ahmed Farrukh Jamil Chaouki Ghenai Salman Raza Naqvi Abdallah Shanableh Muhammad Ayoub Ammara Waris Young-Kwon Park

Sustainability , Volume 13(19), Article Number 11061

Impact Factor: 3.251 | **Quartile:** 2 | **Citations:** 112

DOI: https://doi.org/10.3390/su131911061

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

Microplastic degradation as a sustainable concurrent approach for producing biofuel and obliterating hazardous environmental effects: A state-of-the-art review 2021

Arjay A Arpia Wei-Hsin Chen Aristotle T Ubando Salman Raza Naqvi Alvin B Culaba

Journal of Hazardous Materials , Volume 418, Article Number 126381

Impact Factor: 14.224 | **Quartile:** 1 | **Citations:** 121

DOI: https://doi.org/10.1016/j.jhazmat.2021.126381

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

Amine-impregnated silica zeolite from microalgae ash at different calcination temperatures for CO2 capture 2021

Kouer Zhang Salman Raza Naqvi Nor Aishah Saidina Amin Cui Quan Xiangyu Jia Yilin Zhang Ningbo Gao
International Journal of Energy Research, Pages 1-14

Impact Factor: 4.672 | **Quartile:** 1 | **Citations:** 5
DOI: http://doi.org/10.1002/er.7241

A Comparative Study of Machine Learning Methods for Bio-oil Yield Prediction–A Genetic Algorithm-Based Features Selection 2021

Zahid Ullah Muzammil khan Salman Raza Naqvi Wasif Farooq Haiping Yang Shurong Wang Dai-Viet N. Vo
Bioresource Technology , Volume 335, Article Number 125292

Impact Factor: 11.889 | **Quartile:** 1 | **Citations:** 123
DOI: https://doi.org/10.1016/j.biortech.2021.125292

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

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

Computational Analysis of the Hydrodynamic Behavior for Different Air Distributor Designs of Fluidized Bed Gasifier 2021

Naveed Raza Muhammad Ahsan Muhammad Taqi Mehran Iftikhar Ahmad Salman Raza Naqvi
Frontiers in Energy Research, Volume 9, Issues 1, Article Number 692066

Impact Factor: 4.008 | **Quartile:** 2 | **Citations:** 17
DOI: https://doi.org/10.3389/fenrg.2021.692066

Production and characterization of bio-oils from fast pyrolysis of tobacco processing wastes in an ablative reactor under vacuum 2021

Nattawut Khuenkaeo Sanphawat Phromphithak Thossaporn Onsree Salman Raza Naqvi Nakorn Tippayawong
Plos One , Volume 16, 7, Article Number e0254485

Impact Factor: 3.240 | **Quartile:** 2 | **Citations:** 38
DOI: https://doi.org/10.1371/journal.pone.0254485

Recent developments on sewage sludge pyrolysis and its kinetics: Resources recovery, thermogravimetric platforms, and innovative prospects 2021

Salman Raza Naqvi Rumaisa Tariq Muhammad Shahbaz Muhammad Naqvi Muhammad Aslam Zakir Khan Hamish Mackey Gordon Mckay Tareq Al-Ansari
Computers and Chemical Engineering , Volume 150, Article Number 107325

Impact Factor: 3.845 | **Quartile:** 2 | **Citations:** 120
DOI: https://doi.org/10.1016/j.compchemeng.2021.107325

Current status of biohydrogen production from lignocellulosic biomass, technical challenges and commercial potential through pyrolysis process 2021

Wei-Hsin Chen Wasif Farooq Muhammad Shahbaz Salman Raza Naqvi Imtiaz Ali Tareq Al-Ansari Nor Aishah Saidina Amin

Energy , Volume 226, Article Number 120433

Impact Factor: 8.857 | **Quartile:** 1 | **Citations:** 109

DOI: https://doi.org/10.1016/j.energy.2021.120433

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

Process system analysis on oil processing facility and economic viability from oil well-to-tank 2021

Bilal Kazmi Syed Ali Ammar Taqvi Muhammad Naqvi Suhaib Umer Ilyas Ali Moshin Farah Inamullah Salman Raza Naqvi

SN Applied Sciences , Volume 3, Article Number 682

Impact Factor: 0 | **Citations:** 5

DOI: https://doi.org/10.1007/s42452-021-04635-z

Graphene based FeO/NiO MOF Composites for Methanol Oxidation Reaction 2021

Tayyaba Noor Muhammad Mohtashim Naseem Iqbal Salman Raza Naqvi Neelam Zaman Lubna Rasheed Muhammad Yousaf

Journal of Electroanalytical Chemistry, Volume 890, Article Number 115249

Impact Factor: 4.464 | **Quartile:** 1 | **Citations:** 62

DOI: https://doi.org/10.1016/j.jelechem.2021.115249

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

A mathematical model-based approach for DC multi-microgrid performance evaluations considering intermittent distributed energy resources, energy storage, multiple load classes, and system components variations 2021

Hafiz Muhammad Anees Syed Ali Abbas Kazmi Muhammad Naqvi Salman Raza Naqvi Faizan Dastgeer Hassan Erteza Gelani

Energy Science & Engineering , Pages 1-16

Impact Factor: 4.170 | **Quartile:** 2 | **Citations:** 11

DOI: http://doi.org/10.1002/ese3.901

Multistage carbon dioxide compressor efficiency enhancement using waste heat powered absorption chillers 2021

Sheikh Ehsan Ul Haq Fahim Uddin Syed Ali Ammar Taqvi Muhammad Naqvi Salman Raza Naqvi

Energy Science & Engineering , Pages 1-12

Impact Factor: 4.170 | **Quartile:** 2 | **Citations:** 8

DOI: https://doi.org/10.1002/ese3.898

Impact of layered and delaminated zeolites on catalytic fast pyrolysis of microalgae using fixed-bed reactor and PY-GC/MS 2021

Salman Raza Naqvi Muhammad Naqvi Abrar Inayat Paula Blanco-Sanchez

Journal of Analytical and Applied Pyrolysis, Volume 155, Article Number 105025

Impact Factor: 5.541 | **Quartile:** 1 | **Citations:** 25

DOI: https://doi.org/10.1016/j.jaap.2021.105025

Selective preparation of 5-hydroxymethylfurfural by catalytic fast pyrolysis of cellulose over zirconium-tin mixed metal oxides 2021

Yang Li Bin Hu Zhen-xi Zhang Kai Li Qiang Lu Salman Raza Naqvi

Journal of Analytical and Applied Pyrolysis, Volume 155, Article Number 105103

Impact Factor: 5.541 | **Quartile:** 1 | **Citations:** 24

DOI: https://doi.org/10.1016/j.jaap.2021.105103

Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production 2021

Shih-Wei Yen Wei-Hsin Chen Jo-Shu Chang Chun-Fong Eng Salman Raza Naqvi Pau Loke Show

Sustainability , Volume 13, issue 8, Article Number 4246

Impact Factor: 3.251 | **Quartile:** 2 | **Citations:** 13

DOI: https:// doi.org/10.3390/su13084246

Methoxy-methylheptane as a cleaner fuel additive: An energy- and cost-efficient enhancement for separation and purification units 2021

Arif Hussain Muhammad Abdul Qyyum Le Quang Minh Amjad Riaz Junaid Haider Muhammad Naqvi Moonyong Lee Salman Raza Naqvi

Energy Science & Engineering, Pages 1-15

Impact Factor: 4.170 | **Quartile:** 2 | **Citations:** 1

DOI: https://doi.org/10.1002/ese3.894

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

Current challenges and innovative developments in pretreatment of lignocellulosic residues for biofuel production: A review 2021

Bilal Beig Muhammad Riaz Salman Raza Naqvi Muhammad Hassan Zhifeng Zheng Keikhosro Karimi Arivalagan Pugazhendhi A.E. Atabani Nguyen Thuy La Chi

Fuel, Volume 287, Article Number 119670

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 189

DOI: https://doi.org/10.1016/j.fuel.2020.119670

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

Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan 2021

Natasha Irshad Bibi Muhammad Shahid Nabeel Khan Niazi Fazila Younas Salman Raza Naqvi Sabry M. Shaheen Muhammad Imran Hailong Wang Khalid Mahmud Hussaini Hua Zhang Jorg Rinklebe

Journal of Hazardous Materials, Volume 402, Article Number 124074

Impact Factor: 10.588 | **Quartile:** 1 | **Citations:** 70

DOI: https://doi.org/10.1016/j.jhazmat.2020.124074

Global plastic waste management strategies (Technical and behavioral) during and after COVID-19 pandemic for cleaner global urban life 2021

Muhammad Taqi Mehran Salman Raza Naqvi Muhammad Ali Haider Maryam Saeed Muhammad Shahbaz Tareq Al-Ansari

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Pages 1-10

Impact Factor: 3.447 | **Quartile:** 2 | **Citations:** 14

DOI: https://doi.org/10.1080/15567036.2020.1869869

Landfill site selection by integrating fuzzy logic, AHP, and WLC method based on multi-criteria decision analysis 2021

Riaz Zarin Muhammad Azmat Salman Raza Naqvi Qaisar Saddique Saif Ullah

Environmental Science and Pollution Research, Pages 1-16

Impact Factor: 5.190 | **Quartile:** 2 | **Citations:** 60

DOI: https://doi.org/10.1007/s11356-020-11975-7

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

Synthesis, characterization and catalytic testing of MCM-22 derived catalysts for n-hexane cracking 2020

Ali Ahmad Salman Raza Naqvi Muhammad Rafique Habib Nasir Ali Sarosh

Scientific Reports , Volume 10, Article Number 21786

Impact Factor: 4.379 | **Quartile:** 1 | **Citations:** 12

DOI: https://doi.org/10.1038/s41598-020-78746-9

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

A new design of catalytic tube reactor for hydrogen production from ethanol steam reforming 2020

Salman Raza Naqvi Wei-Hsin Chen Chen-Yu Lu Khanh-Quang Trand Yu-Li Lin

Fuel, Volume 281, Article Number 118746

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 35

DOI: https://doi.org/10.1016/j.fuel.2020.118746

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

Modeling and simulation of coupled pyrolysis and gasification of oily sludge in a rotary kiln 2020

Salman Raza Naqvi Ningbo Gaoa Xiangyu Jia Guanqun Gao Zhengzhao Mab Cui Quan

Fuel, Volume 279, Article Number 118152

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 60

DOI: https://doi.org/10.1016/j.fuel.2020.118152

Impact Analysis of Large-Scale Wind Farms Integration in Weak Transmission Grid from Technical Perspectives 2020

Shah Rukh Abbas Syed Ali Abbas Kazmi Muhammad Naqvi Adeel Javed Salman Raza Naqvi Kafait Ullah Tauseef-ur-Rehman Khan Dong Ryeol Shin

Energies, Volume 13, Issue 20, Article Number 5513

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

DOI: 10.3390/en13205513

Assessment of agro-industrial residues for bioenergy potential by investigating thermo-kinetic behavior in a slow pyrolysis process 2020

Salman Raza Naqvi Imtiaz Ali Saqib Nasir Syed Ali Ammar Taqvi A.E. Ataban Wei-Hsin Chen

Fuel, Volume 278, Issue 15, Article Number 118259

Impact Factor: 6.609 | **Quartile:** 1 | **Citations:** 82

DOI: https://doi.org/10.1016/j.fuel.2020.118259

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

Prediction of Bio-oil Yield and Hydrogen Contents based on Machine Learning Method: Effect of Biomass Compositions and Pyrolysis Conditions 2020

Qinghui Tang Yingquan Chen Haiping Yang Ming Liu Haoyu Xiao Ziyue Wu Hanping Chen Salman Raza Naqvi

Energy & Fuels, Volume 34(9), Pages 11050–11060

Impact Factor: 3.605 | **Quartile:** 2 | **Citations:** 121

DOI: https://doi.org/10.1021/acs.energyfuels.0c01893

A Comprehensive Review on Thermal Coconversion of Biomass, Sludge, Coal, and Their Blends Using Thermogravimetric Analysis 2020

Salman Raza Naqvi Zeeshan Hameed Muhammad Naqvi Imtiaz Ali Syed Ali Ammar Taqvi Ningbo Gao Syed Azfar Hussain Sadiq Hussain

Journal of Chemistry, Volume 2020, Article ID 5024369, 23 pages

Impact Factor: 2.506 | **Quartile:** 3 | **Citations:** 53

DOI: https://doi.org/10.1155/2020/5024369

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

Performance, Emission and Combustion Characteristics of a Diesel Engine Powered by Macadamia and Grapeseed Biodiesels 2020

Salman Raza Naqvi Abul Kalam Azad Julian Adhikari Pobitra Halder Mohammad G. Rasul Nur M. S. Hassan Mohammad M. K. Khan Karthickeyan Viswanathan

Energies, Volume 13, Issue 11, Article Number 2748

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

DOI: https://doi.org/10.3390/en13112748

A state of the art review on biomass processing and conversion technologies to produce hydrogen and its recovery via membrane separation 2020

Salman Raza Naqvi Muhammad Shahbaz Tareq Al-Ansari Muhammad Aslam Zakir Khan Abrar Inayat Muhammad Athar Muahammad Ajaz Ahmed Gordon McKay

International Journal of Hydrogen Energy, Volume 45, Issue 30, Pages 15166-15195

Impact Factor: 5.816 | **Quartile:** 2 | **Citations:** 133

DOI: https://doi.org/10.1016/j.ijhydene.2020.04.009

Performance Comparison of Industrially Produced Formaldehyde Using Two Different Catalysts 2020

Salman Raza Naqvi Muhammad Taqi Mehran Umair Sikandar Kamran Shakeel Muqaddam Javaid Yusra Muazzam Syed Ali Ammar Taqvi Fahim Uddin Muhammad Bilal Khan Niazi

Processes, Volume 8, Issue 5, Article Number 571

Impact Factor: 2.847 | **Quartile:** 3 | **Citations:** 12

DOI: https://doi.org/10.3390/pr8050571

Bench-marking and application of magnetite nanoparticles into magnetically detectable NBR films 2020

Salman Raza Naqvi Shahid Saeed Qureshi Rizwan Nasir Harith Rashid Bilal Haider Masood Yousaf Sharifah Bee Abd Hamid Aymn Abdulrahman

Separation Science and Technology, Pages 1-10

Impact Factor: 2.475 | **Quartile:** 3

DOI: https://doi.org/10.1080/01496395.2020.1748652

Impact of Varying Load Conditions and Cooling Energy Comparison of a Double-Inlet Pulse Tube Refrigerator 2020

M. Arsalan M. Farooq M. Naqvi U. Sultan Z. Tahir S. Nawaz N. Waheed S.R. Naqvi Qasim Ali M. Suleman Tariq Ijaz Ahmad Chaudhry John M. Anderson Anthony Anukam

Processes, Volume 8, Issue 3, Article Number 352

Impact Factor: 2.847 | **Quartile:** 3 | **Citations:** 5

DOI: https://doi.org/10.3390/pr8030352

Production and Characterization of Controlled Release Urea Using Biopolymer and Geopolymer as Coating Materials 2020

B. Azeem K. KuShaari M. Naqvi L.K. Keong M.K. Almesfer Z.A-Qodah Salman Raza Naqvi Noureddine Elboughdiri

Polymers , Volume 12, Issue 2, Article Number 29

Impact Factor: 4.329 | **Quartile:** 1 | **Citations:** 71

DOI: https://doi.org/10.3390/polym12020400

Thermodynamic Performance Analysis of Hydrofluoroolefins (HFO) Refrigerants in Commercial Air-Conditioning Systems for Sustainable Environment 2020

M. Farooq A. Hamayoun M. Naqvi Saad Nawaz M. Usman M. Farooq A. Hamayoun M. Naqvi Saad Nawaz M. Usman Salman Raza Naqvi Muhammad Imran Rida Nadeem Allah Razi Ahmet Turan Alberto Pettinau John M. Andresen

Processes , Volume 8, Issue 2, Article Number 187

Impact Factor: 2.847 | **Quartile:** 3 | **Citations:** 9

DOI: https://doi.org/10.3390/pr8020187

Experimental Study of CO2 Conversion into Methanol by Synthesized Photocatalyst (ZnFe2O4/TiO2) Using Visible Light as an Energy Source 2020

Salman Raza Naqvi Umair Sikandar Numair Manzoor Muhammad Sadiq Muhammad Naqvi

Catalysts , Volume 10, Issue 2, Article Number 163

Impact Factor: 4.146 | **Quartile:** 2 | **Citations:** 19

DOI: https://doi.org/10.3390/catal10020163

PVA/starch/propolis/anthocyanins rosemary extract composite films as active and intelligent food packaging materials 2020

Pakeeza Mustafa Tahir Ahmed Muhammad Bilal Khan Niazi Zaib Jahan Ghufrana Samin Arshad Hussain Salman Raza Naqvi

Journal of Food Safety, Volume 40, Issue 1, Article Number e12725

Impact Factor: 1.953 | **Quartile:** 3 | **Citations:** 102

DOI: doi.org/10.1111/jfs.12725

Polyetherimide-Montmorillonite Nano-Hybrid Composite Membranes: CO2 Permeance Study via Theoretical Models 2020

Asif Jamil Oh Pei Ching M. Naqvi Hafiza Aroosa Aslam Khan Asif Jamil Oh Pei Ching M. Naqvi Hafiza Aroosa Aslam Khan Salman Raza Naqvi

Processes , Volume 8, Issue 1, Article Number 118

Impact Factor: 2.847 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.3390/pr8010118

Use of Gasoline, LPG and LPG-HHO Blend in SI Engine: A Comparative Performance for Emission Control and Sustainable Environment 2020

M. Usman M. Farooq M. Naqvi M. Wajid Saleem Jafar Hussain Salman Raza Naqvi M. Usman M. Farooq M. Naqvi M. Wajid Saleem Jafar Hussain

Processes , Volume 8, Issue 1, Article Number 74

Impact Factor: 2.847 | **Quartile:** 3 | **Citations:** 48

DOI: https://doi.org/10.3390/pr8010074

Improved project control for sustainable development of construction sector to reduce environment risks 2019

Summaira Malik Fareena Fatima Asma Imran Lai Fatt Chuah Ji?í Jaromír Klemeš Imran Hameed Khaliq Saira Asif Muhammad Aslam Farrukh Jamil Abdullah Khan Durrani Majid Majeed Akbar Muhammad Shahbaz Muhammad Usman AE Atabani Salman Raza Naqvi Suzana Yusup Awais Bokhari Summaira Malik Fareena Fatima Asma Imran Lai Fatt Chuah Ji?í Jaromír Klemeš Imran Hameed Khaliq Saira Asif Muhammad Aslam Farrukh Jamil Abdullah Khan Durrani Majid Majeed Akbar Muhammad Shahbaz Muhammad Usman AE Atabani Suzana Yusup Awais Bokhari

Journal of Cleaner Production, Volume 240, Pages 118-224

Impact Factor: 7.246 | **Quartile:** 1 | **Citations:** 39

DOI: https://doi.org/10.1016/j.jclepro.2019.118214

NO and SO2 emissions in palm kernel shell catalytic steam gasification with in-situ CO2 adsorption for hydrogen production in a pilot-scale fluidized bed gasification system 2019

Zakir Khan Suzana Yusup Muhammad Aslam Abrar Inayat Muhammad Shahbaz Salman Raza Naqvi Robina Farooq Ian Watson

Journal of Cleaner Production, Volume 236, 1 November 2019, 117636

Impact Factor: 7.246 | **Quartile:** 1 | **Citations:** 45

DOI: 10.1016/j.jclepro.2019.117636

Optimal integration of a biomass-based polygeneration system in an iron production plant for negative carbon emissions 2019

Aristotle T Ubando Wei?Hsin Chen Raymond R Tan Salman Raza Naqvi Aristotle T Ubando Wei?Hsin Chen Raymond R Tan

International Journal of Energy Research, Pages 1- 17

Impact Factor: 3.741 | **Quartile:** 1 | **Citations:** 24
DOI: https://doi.org/10.1002/er.4902

Decomposition of N2O at low temperature over Co3O4 prepared by different methods 2019
Abrar Inayat Muhammad Ayoub Ahmad Z. Abdullah Sami Ullah Salman Raza Naqvi
Environmental Progress & Sustainable Energy, Volume 38, Issue 4, Article Number UNSP 13129
Impact Factor: 1.989 | **Quartile:** 3 | **Citations:** 8
DOI: 10.1002/ep.13129

Oxidative reaction interaction and synergistic index of emulsified pyrolysis bio-oil/diesel fuels 2019
Bo-JhihLin Wei-Hsin Chen Tzu-Hsien Hsieh Hwai Chyuan Ong Pau Loke Show Salman Raza Naqvi
Renewable Energy, Volume 136, Pages 223-234
Impact Factor: 6.274 | **Quartile:** 1 | **Citations:** 35
DOI: 10.1016/j.renene.2018.12.111

Tailored hydrotalcite-based Mg-Ni-Al catalyst for hydrogen production via methane decomposition: Effect of nickel concentration and spinel-like structures 2019
Mohamad Fakhrul Samsudin Suriati Sufian KuZilati KuShaari Chong Fai Kait Salman Raza Naqvi Wei-Hsin Chen Umair Sikander
International Journal of Hydrogen Energy, Volume: 44, Issue: 28, Pages: 14424-14433, Special Issue: SI
Impact Factor: 4.939 | **Quartile:** 2 | **Citations:** 61
DOI: https://doi.org/10.1016/j.ijhydene.2018.10.224

Demonstrating the suitability of canola residue biomass to biofuel conversion via pyrolysis through reaction kinetics, thermodynamics and evolved gas analyses 2019
Mudassir Hussain Tahir Gülce Çakman Jillian L.Goldfar Yildiray Topcu Yildiray Topcu Salman Raza Naqvi Selim Ceylan
Bioresource Technology, Volume 279, Pages 67-73
Impact Factor: 7.539 | **Quartile:** 1 | **Citations:** 119
DOI: 10.1016/j.biortech.2019.01.106

Thermo-kinetics and gaseous product analysis of banana peel pyrolysis for its bioenergy potential 2019
Mudassir HussainTahir Zilong Zhao Jianmin Ren Tanveer Rasool Salman Raza Naqvi
Biomass & Bioenergy, Volume 122, Pages 193-201
Impact Factor: 3.551 | **Quartile:** 1 | **Citations:** 115
DOI: 10.1016/j.biombioe.2019.01.009

Effect of ultra-violet cross-linking on the properties of boric acid and glycerol co-plasticized thermoplastic starch films 2019
Bahram Khan Muhammad Bilal Khan Niazi Zaib Jahan Wasif Farooq Salman Raza Naqvi Majid Ali Israr Ahmed Arshad Hussain
Food Packaging and Shelf Life, Volume 19, Pages 184-192
Impact Factor: 4.244 | **Quartile:** 1 | **Citations:** 25
DOI: 10.1016/j.fpsl.2018.05.006

Synergistic effect on co-pyrolysis of rice husk and sewage sludge by thermal behavior, kinetics, thermodynamic parameters and artificial neural network 2019
Salman Raza Naqvi Zeeshan Hameed Rumaisa Tariq Syed A. Taqvi Imtiaz Ali Muhammad Bilal Khan Niazi Tayyaba Noor Arshad Hussain Naseem Iqbal Muhammad Shahbaz
Waste Management, NULL
Impact Factor: 5.448 | **Quartile:** 1 | **Citations:** 194
DOI: 10.1016/j.wasman.2018.12.031

Pyrolysis of high-ash sewage sludge: Thermo-kinetic study using TGA and artificial neural networks 2018
Salman Raza Naqvi Rumaisa Tariq Zeeshan Hameed Imtiaz Ali Syed A. Taqvi Muhammad Naqvi Muhammad Bilal Khan Niazi Tayyaba Noor Wasif Farooq
Fuel, Volume 233, Pages 529-538
Impact Factor: 5.128 | **Quartile:** 1 | **Citations:** 190
DOI: 10.1016/j.fuel.2018.06.089

New trends in improving gasoline quality and octane through naphtha isomerization: a short review 2018
Salman Raza Naqvi Muhammad Naqvi Tayyaba Noor Abdul?Sattar Nizami Mohammad Rehan Muhammad Ayoub Ayesha Bibi
Applied Petrochemical Research, Volume 8, Pages 131–139
Impact Factor: -
DOI: 10.1007/s13203-018-0204-y

A critical review on recycling of end-of-life carbon fibre/glass fibre reinforced composites waste using pyrolysis towards a circular economy 2018
Salman Raza Naqvi H. Mysore Prabhakara E.A. Bramer W. Dierkes R. Akkerman G. Brem
Resources, Conservation & Recycling, NULL

Impact Factor: 7.044 | **Quartile:** 1 | **Citations:** 363
DOI: https://doi.org/10.1016/j.resconrec.2018.04.013

Polygeneration system integrated with small non-wood pulp mills for substitute natural gas production 2018
M. Naqvi E. Dahlquist J. Yan Salman Raza Naqvi A.S. Nizami C.A. Salman M. Danish U. Farooq M. Rehan Z. Khan A.S. Qureshi
Applied Energy , NULL
Impact Factor: 8.426 | **Quartile:** 1 | **Citations:** 11
DOI: https://doi.org/10.1016/j.apenergy.2018.05.005

Kinetic and Thermodynamic Analyses of Sugar Cane Bagasse and Sewage Sludge Co-pyrolysis Process 2018
Zeeshan Hameed Salman Raza Naqvi Rumaisa Tariq Imtiaz Ali Anas A. Makki Zaeem Aman
Energy & Fuels, NULL
Impact Factor: 3.021 | **Quartile:** 2 | **Citations:** 63
DOI: 10.1021/acs.energyfuels.8b01972

Artificial neural network approach for the steam gasification of palm oil waste using bottom ash and CaO 2018
Muhammad Shahbaz Syed A. Taqvi Adrian Chun Minh Loy Abrar Inayat Fahim Uddin Awais Bokhari Salman Raza Naqvi
Renewable Energy , Volume: 132 Pages: 243-254
Impact Factor: 5.439 | **Quartile:** 1 | **Citations:** 120
DOI: 10.1016/j.renene.2018.07.142

Pyrolysis of high ash sewage sludge: Kinetics and thermodynamic analysis using Coats-Redfern method 2018
Salman Raza Naqvi Rumaisa Tariq Zeeshan Hameed Imtiaz Ali Muhammad Naqvi Wei-Hsin Chen Selim Ceylan Harith Rashid Junaid Ahmad Syed A. Taqvi Muhammad Shahbaz
Renewable Energy , NULL
Impact Factor: 5.439 | **Quartile:** 1 | **Citations:** 335
DOI: https://doi.org/10.1016/j.renene.2018.07.094

Effect of drying parameters on the physical, morphological and thermal properties of spray-dried inulin 2018
Israr Ahmed Muhammad Bilal Khan Niazi Zaib Jahan Dr. Salman Raza Naqvi
Journal of Polymer Engineering, NULL
Impact Factor: 1.072 | **Quartile:** 4 | **Citations:** 8
DOI: https://doi.org/10.1515/polyeng-2017-0064

Catalytic fast pyrolysis of rice husk: Influence of commercial and synthesized microporous zeolites on deoxygenation of biomass pyrolysis vapors 2018
Salman Raza Naqvi Muhammad Naqvi
International Journal of Energy Research, NULL
Impact Factor: 3.343 | **Quartile:** 1 | **Citations:** 50
DOI: https://doi.org/10.1002/er.3943

Kinetic analysis of Botryococcus braunii pyrolysis using model-free and model fitting methods 2018
Imtiaz Ali Salman Raza Naqvi Ali Bahadar
Fuel , NULL
Impact Factor: 5.128 | **Quartile:** 1 | **Citations:** 74
DOI: https://doi.org/10.1016/j.fuel.2017.11.046

Influence of Plasticizers on Mechanical and Thermal Properties of Methyl Cellulose-Based Edible Films 2018
Awais Khan Muhammad Bilal Khan Niazi Salman Raza Naqvi Wasif Farooq
Journal of Polymers and the Environment, Volume 26, Pages 291–300
Impact Factor: 2.765 | **Quartile:** 2 | **Citations:** 14
DOI: doi:10.1007/s10924-017-0953-1

Syngas Production from Steam Gasification of Palm Kernel Shell with Subsequent CO2 Capture Using CaO Sorbent: An Aspen Plus Modeling 2017
Muhammad Shahbaz Suzana Yusup Abrar Inayat Muhammad Ammar David Onoja Patrick Angga Pratama Salman Raza Naqvi
Energy & Fuels, Volume 31(11), Pages 12350–12357
Impact Factor: 3.024 | **Quartile:** 2 | **Citations:** 97
DOI: 10.1021/acs.energyfuels.7b02670

Off-grid electricity generation using mixed biomass compost: A scenario-based study with sensitivity analysis 2017

Muhammad Naqvi Jinyue Yan Erik Dahlquist Salman Raza Naqvi

Applied Energy , Volume 201, Pages 363-370

Impact Factor: 7.900 | **Quartile:** 1 | **Citations:** 34

DOI: https://doi.org/10.1016/j.apenergy.2017.02.005

In situ catalytic fast pyrolysis of paddy husk pyrolysis vapors over MCM-22 and ITQ-2 zeolites 2015

Salman Raza Naqvi Yoshimitsu Uemura Suzana Yusup Yusuke Sugiura Norikazu Nishiyama

Journal of Analytical and Applied Pyrolysis, NULL

Impact Factor: 3.652 | **Quartile:** 1 | **Citations:** 40

DOI: https://doi.org/10.1016/j.jaap.2015.04.003

Production and Evaluation of Physicochemical Characteristics of Paddy Husk Bio-char for its C Sequestration Applications 2015

Salman Raza Naqvi Yoshimitsu Uemura Noridah Osman Suzana Yusup

BioEnergy Research, NULL

Impact Factor: 3.309 | **Quartile:** 1 | **Citations:** 18

DOI: https://doi.org/10.1007/s12155-015-9634-x

Catalytic pyrolysis of paddy husk in a drop type pyrolyzer for bio-oil production: The role of temperature and catalyst 2014

Suzana Yusup Salman Raza Naqvi Yoshimitsu Uemura

Journal of Analytical and Applied Pyrolysis, NULL

Impact Factor: 3.564 | **Quartile:** 1 | **Citations:** 91

DOI: https://doi.org/10.1016/j.jaap.2013.12.009

Conference Proceedings

Recovery of glass fibers from wind turbine blades composite using a two step pyrolysis process 2022

Salman Raza Naqvi

6th International Conference on Sustainability in Process Industry, res.country(177,)

Citations: N/A

DOI: NA

Cascade Forward Neural Network for The Prediction of Pyrolytic Gas Yield 2022

Salman Raza Naqvi Muhammad Nouman Aslam Khan Nor Aishah Saidina Amin

International Conference on Water, Energy, and Environment for Sustainability (IC-WEES) 2022, res.country(177,)

Citations: N/A

DOI: Nil

Valorisation of Napier Grass and Agricultural Residues via Pyrolysis – A Kinetic Study 2022

Hau-Huu Bui Khanh-Quang Tran Apanee Luengnaruemitchai Gulaim Seisenbaeva Salman Raza Naqvi Wei-Hsin Chen

International Conference on BIOMASS , res.country(109,)

Citations: N/A

DOI: https://doi.org/10.3303/CET2292029

Pyrolysis of high-ash sewage sludge: thermo-kinetic study using TGA and artificial neural networks 2022

Salman Raza Naqvi Nor Aishah Saidina Amin Nor Aishah Saidina Amin

5th International Conference on energy conservation and efficiency, res.country(275,)

Citations: N/A

DOI: NA

Recycling of glass fibers from composite waste for sustainable industrial 2022

Abdur Rafay Abdul Waheed Salman Raza Naqvi Muhammad Irfan

Conference on Materials and Sustainable Industrial Development (COMSID) , res.country(177,)

Citations: N/A

DOI: Nil

Effects of operating parameters for dry reforming of methane: A short review 2021

Muhammad Ayoub Chi Cheng Chong Asif Zamir Yoke Wang Cheng Sarah Farrukh Salman Raza Naqvi Herma Dina Setiabudi Nadia Riaz Naveed Ramzan

International Conference on Process Engineering and Advanced Materials (ICPEAM 2020), res.country(157,)

Citations: N/A

DOI: https://doi.org/10.1051/e3sconf/202128704015

Solid Waste Landfilling/Dumping for a Cleaner Management: A Case Study of Scientometric Analysis of Last 20 Years and Prospects 2021

Salman Raza Naqvi Imtiaz Ali A.E. Atabani

5th Asia International Multidisciplinary Conference, res.country(157,)

Citations: N/A

DOI: https://doi.org/10.31580/sps.v3i1.2220

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

Recovery of Carbon Fibers from End-of-Life Carbon Fiber Reinforced Composite Wastes Through a Two Steps Pyrolysis Process 2021

Salman Raza Naqvi G. Brem

International Conference on Energy, Water and Environment – ICEWE-2021, res.country(177,)

Citations: N/A

DOI: 978-969-23447-1-5

Development of Reaction Kinetics Model for the Production of Synthesis Gas from Dry Methane Reforming 2021

Abrar Inayat Muhammad A.B. Ahmad Mohsin Raza Chaouki Ghenai Salman Raza Naqvi Muhammad Ayoub

1st International Conference (Virtual) on Sustainable Energy and Catalysis, res.country(157,)

Citations: N/A

DOI: https://doi.org/10.9767/bcrec.16.2.10510.440-445

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

RECENT DEVELOPMENTS ON BIOMASS UTILIZATION FOR BIOENERGY PRODUCTION IN PAKISTAN 2020

Salman Raza Naqvi

4TH ASIAINTERNATIONAL MULTIDISCIPLINARY CONFERENCE, res.country(157,)

Citations: N/A

DOI: https://doi.org/10.31580/sps.v2i2.1461

Catalytic Impact of Layered and Delaminated Zeolites on Fast Pyrolysis of Microalgae using Fixed-Bed Reactor and PY-GC/MS 2019

Salman Raza Naqvi Muhammad Naqvi Abrar Inayat

12th International Conference on Sustainable Energy & Environmental Protection (SEEP 2019), res.country(2,)

Citations: N/A

DOI: http://www.sharjah.ac.ae/en/Media/Conferences/seep/Pages/default.aspx

Recovery of glass fibers from wind turbine blades composite using a two steps pyrolysis process 2018

Salman Raza Naqvi G. Brem R. Akkerman

International Conference on Nanoscience and Nanotechnology (ICONN 2018), res.country(177,)

Citations: N/A

DOI: N/A

Olefins Production Using MCM-22 2017

Ali Ahmad Habib Nasir Muhammad Rafique Salman Raza Naqvi

3rd Conference on Emerging Materials and Processes (CEMP), res.country(177,)

Citations: N/A

DOI: http://cemp.scme.nust.edu.pk/

Gasification Integrated with Small Chemical Pulp Mills for Fuel and Energy Production 2017

Muhammad Naqvi Erik Dahlquist Abdul-Sattar Nizami Muhammad Danish Salman Naqvi Usman Farooq Abdul Sattar Qureshi M.Rehan

9th International Conference on Applied Energy, ICAE2017, res.country(231,)

Citations: N/A

DOI: 10.1016/j.egypro.2017.12.156

Fruit Waste to Energy through Open Fermentation 2017

Abdul Sattar Qureshi Imrana Khushk Salman Raza Naqvi Salman Ahmed Simiar Haider Ali Muhammad Naqvi Muhammad Danish Ayyaz Ahmed Hamid

Majeed Abdul Nabi Mir Jatt Muhammad Rehan Abdul Sattar Nizami

9th International Conference on Applied Energy, ICAE2017, res.country(231,)

Citations: N/A

DOI: 10.1016/j.egypro.2017.12.145

Catalytic Pyrolysis Of Botryococcus Braunii (microalgae) Over Layered and Delaminated Zeolites For Aromatic Hydrocarbon Production 2017

Salman Raza Naqvi M. Naqvib Tayyaba Noor Arshad Hussain Naseem Iqbal yoshimitsu uemura N. Nishiyama

9th International Conference on Applied Energy, ICAE2017, 21-24 August 2017, Cardiff, UK, res.country(231,)

Citations: N/A

DOI: 10.1016/j.egypro.2017.12.060

The Role of Zeolite Structure and Acidity in Catalytic Deoxygenation of Biomass Pyrolysis Vapors 2015

Salman Raza Naqvi Yoshimitu Uemura Suzana Yusup Y. Sugiur N. Nishiyama M. Naqvi

The 7th International Conference on Applied Energy – ICAE2015, res.country(2,)

Citations: N/A

DOI: 10.1016/j.egypro.2015.07.126

Books

Thermo-Catalytic Pyrolysis of Rice Husk for Bio-Oil Production, 1st Edition 2019

Salman Raza Naqvi

Pages 1-175

Citations: N/A

DOI: http://Prr.hec.gov.pk

Book Chapters

Biofuel production with integrated pyrolysis and catalytic upgrading system 2022

Le K.H. Pham Suwadee Kongparakul Prasert Reubroycharoen Surachai Karnjanakom Salman Raza Naqvi Guoqing Guan Chanatip Samart

In: *Book on Innovations in Thermochemical Technologies for Biofuel Processing*, 1st Edition, Chapter 6, Pages 147-177

Citations: 5

DOI: https://doi.org/10.1016/B978-0-323-85586-0.00012-3

Circular Economy Approach to Address the Industrial Solid Waste Management 2021

Salman Raza Naqvi Bilal Beig Muhammad Naqvi

In: *Handbook of Solid Waste Management* , Pages 1-20

Citations: N/A

DOI: https://doi.org/10.1007/978-981-15-7525-9_62-1

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

Advance strategies for tar elimination from biomass gasification techniques 2021

Muddasser Inayat Muhammad Shahbaz Salman Raza Naqvi Shaharin A Sulaiman

In: *Book on Bioenergy Resources and Technologies*, Chapter 3, Pages 61-88

Citations: 12

DOI: https://doi.org/10.1016/B978-0-12-822525-7.00010-X

Glycerol Conversion to Diglycerol via Etherification under Microwave Irradiation 2020

Muhammad Ayoub Wan Jie Wei Manzoor Ahmad Ranitha Mathialagan Mohammed Danish Sami Ullah Salman Raza Naqvi Sarah Farrukh

In: *Book on Apolipoproteins, Triglycerides and Cholesterol*, Chapter 7, Pages 115-231

Citations: N/A

DOI: 10.5772/intechopen.90513

Adsorption of Chromium from Aqueous Solution using Powder of Potato Peelings as a Sorbent 2019

Sarah Farrukh Salman Raza Naqvi Muhammad Ayoub Mohd Hizami Mohd Yusoff Aqsha Sami Ullah Mushtaq Ahmad Muhammad Zafar

In: *Nurture Young Talent, MNNF Publisher* , 1st edition

Citations: N/A

DOI: https://www.pnm.gov.my/

Chapter 6 - Microwave enhanced catalytic conversion of canola-based methyl ester: Optimization and parametric study 2019

Awais Bokhari Lai Fatt Chuah Leow Zi Yan Michelle Saira Asif Muhammad Shahbaz Majid Majeed Akbar Abrar Inayat Farrukh Jamil Salman Raza Naqvi Suzana Yusup

In: *Advanced Biofuel* , Pages 153-166

Citations: 42

DOI: 10.1016/B978-0-08-102791-2.00006-4

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