

Salman Raza Naqvi

Associate Professor

School of Chemical & Materials Engineering

Email: dir@nstp.pk

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 8260, carried out 25 projects and filed 0 intellectual property.

Qualifications

PhD in Green Technology Petronas Technology University , Malaysia	2012 - 2015
MS in Process Chemical Engineering Technical University of Dortmund , Germany	2006 - 2009
BE in Chemical Engineering BZU, Multan , Pakistan	2002 - 2006

Experience

Associate Professor School of Chemical & Materials Engineering	2023- Present
Associate Professor School of Chemical & Materials Engineering	2021 - 2023
Assistant Professor School of Chemical & Materials Engineering	2021 - 2021
Assistant Professor School of Chemical & Materials Engineering	2019 - 2021
Assistant Professor School of Chemical & Materials Engineering	2016 - 2019
Assistant Professor School of Chemical & Materials Engineering	2015 - 2016
Lecturer School of Chemical & Materials Engineering	2010 - 2015
Assistant Professor NUST , H-12	2015 - 2021
Postdoctoral Researcher University of Twente , Enschede, Netherlands	2015 - 2018
Research Officer Universiti Teknologi PETRONAS , Bandar Seri Iskandar, Perak, Malaysia	2012 - 2015
Lecturer NFC-IET , Multan	2009 - 2010
Researcher BASF SE , Ludwigshafen, Germany	2008 - 2009

Awards

University Best Researcher Awards- 2021	2022
Gold Medal Best Presenter Award at International Conference on Business, Sciences and Technology, Thailand on Rice husk pyrolysis using new drop type reactor.	2014
Gold Medal Gold medal at International Innovation Festival	2014
GOLD Medal GOLD Medal at 27th International Technology exhibition on science and technology (ITEX), kuala lumpur on "Design of drop type pyrolyzer for bio-oil production"	2013
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 Funding Agency: Universiti Teknologi Malaysia Amount: PKR 2,563,677.00 Status: Approved_inprocess	2022
Gasification of leather waste and carbon dioxide capture Funding Agency: NUST Amount: PKR 100,000.00 Status: Approved_inprocess	2022
Deployment of Indigenously developed Energy Sub Metering Technology at NSTP Building Funding Agency: NUST Amount: PKR 200,000.00 Status: Completed	2022
Turning waste plastic into Bricks Funding Agency: PSF Amount: PKR 9,790,000.00 Status: Approved_inprocess	2022
Development of Low–Cost Plastic Waste Recycling Machine Funding Agency: PSF Amount: PKR 600,000.00 Status: Completed	2021
Advanced thermal conversion of biomass for bioenergy: process kinetics & predictive modelling using machine learning algorithms Funding Agency: Universiti Teknologi, Malaysia (UTM) Amount: PKR 2,269,217.00 Status: Completed	2021
Research Stays for University Academics & Scientists (RSUAS) Funding Agency: DAAD Amount: PKR 756,102.00 Status: Completed	2020
Production of High Yield and quality carbo nadoes material from integrated thermos catalytic reforming of biomass Funding Agency: DAAD German Academic Exchange Services Amount: PKR 700,000.00 Status: Completed	2020
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 microalgal-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: 14	
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 <i>Hamad AlMohamadi Majed Alamoudi Muhammad Zubair Yameen Salman Raza Naqvi</i> <i>Chemosphere</i> , Volume 338, Article Number 139623 Impact Factor: 8.8 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1016/j.chemosphere.2023.139623	2023
Fabrication of a novel nanocomposite (TiO₂/WO₃/V₂O₅) by hydrothermal method as catalyst for hazardous waste treatment <i>Umer Younas Awais Ahmad Aftab Islam Faisal Ali Muhammad Pervaiz Aimon Saleem Muhammad Waseem Ahmed Muteb Aljuwayid Mohamed A. Habila Salman Raza Naqvi</i> <i>Fuel</i> , Volume 349, Article Number 128668 Impact Factor: 8.035 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.fuel.2023.128668	2023
Techno-economic assessment of sunflower husk pellets treated with waste glycerol for the Bio-Hydrogen production– A Simulation-based case study <i>Bilal Kazmi Syed Ali Ammar Taqvi Salman Raza Naqvi Asif Ali Mirani Muhammad Shahbaz Muhammad Naqvi Dagmar Juchelková Gaber E. Eldesoky</i> <i>Fuel</i> , Volume 348, Article Number 128635 Impact Factor: 8.035 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.fuel.2023.128635	2023
Synthesis, chracterization, and analytical application of silver dopamine magnetic nanomaterial <i>Rahat Nawaz Zarayb Hussan Fahad Ali Naeem Akhtar Batool Fatima Muhammad Najam ul Haq Awais Bokhari Salman Raza Naqvi Mohamed Ouladsmene Saadat Majeed</i> <i>Fuel</i> , Volume 348, Article Number 128303 Impact Factor: 8.035 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1016/j.fuel.2023.128303	2023
Catalytic pyrolysis of rice husk over defect-rich beta zeolites for biofuel production <i>Ali Azfar Zaidi Arslan Khan Hamad AlMohamadi Muhammad Waqas Anjum Imtiaz Ali Salman Raza Naqvi Shinya Kokuryo Koji Miyake Norikazu Nishiyama</i> <i>Fuel</i> , Volume 348, Article Number 128624 Impact Factor: 8.035 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1016/j.fuel.2023.128624	2023
Biomass derived activated carbon by chemical surface modification as a source of clean energy for supercapacitor application <i>Rifat Mehdi Salman Raza Naqvi Asif Hussain Khoja Rajab Hussain</i> <i>Fuel</i> , Volume 348, Article Number 128529 Impact Factor: 8.035 Quartile: 1 Citations: 69 DOI: https://doi.org/10.1016/j.fuel.2023.128529	2023
Optimization of olive oil extraction from olive pomace using solvent extraction and response surface methodology analysis of oil yield <i>Rifat Mehdi Salman Raza Naqvi Abdul Ahad Khan Asif Ali Mirani</i> <i>Fuel</i> , Volume 348, Article Number 128633 Impact Factor: 8.035 Quartile: 1 Citations: 13 DOI: https://doi.org/10.1016/j.fuel.2023.128633	2023
Impact of Mari Gas and RLNG Mixture on Pre-Existing Ammonia Plant <i>Fahim Uddin Syed Ali Ammar Taqvi Salman Raza Naqvi Fatima Asad Hamza Nauman Umair Sikander Sajid Muhsbat</i> <i>Iranian Journal of Chemistry and Chemical Engineering-International English Edition</i>, Volume 42, Issue 9, Pages 2928-2937 Impact Factor: 1.000 Quartile: 4 DOI: 1021-9986/2023/9/3146-3155 10/6.00	2023
Thermo-economic evaluation of supercritical CO₂ Brayton cycle integrated with absorption refrigeration system and organic Rankine cycle for waste heat recovery <i>Wahab Mubashir Muhammad Adnan Muhammad Zaman Muhammad Imran Salman Raza Naqvi Atif Mehmood</i> <i>Thermal Science and Engineering Progress</i> , Volume 44, Article Number 102073 Impact Factor: 4.8 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1016/j.tsep.2023.102073	2023
Optimizing Design and Operational Parameters for Enhanced Mixing and Hydrodynamics in Bubbling Fluidized Bed Gasifiers: An Experimental and CFD-based Approach <i>Naveed Raza Rifat Mehdi Muhammad Ahsan Muhammad Taqi Mehran Salman Raza naqvi Emad UdDin</i>	2023

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 Ittikhar 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>

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: 13

DOI: <https://doi.org/10.1016/j.joei.2023.101228>

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>

Influence of Co3O4-based catalysts on N2O 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 Ti3C2Tx 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](https://doi.org/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 <i>Yi-Kai Chih Wei-Hsin Chen Siming You Chun-Han Hsu Hong-Ping Lin Salman Raza Naqvi Veeramuthu Ashokkumar</i> <i>Fuel</i> , 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	2023
Catalytic pyrolysis of guaiacol on Enteromorpha-based biochar: A combination of experiments and density functional theory <i>Xuping Yang Bin Cao Ding Jiang Sirong He Chuan Yuan Hongping Li Salman Raza Naqvi Shuang Wang</i> <i>Fuel Processing Technology</i> , Volume 239, Article Number 107527 Impact Factor: 8.129 Quartile: 1 Citations: 26 DOI: https://doi.org/10.1016/j.fuproc.2022.107527	2023
A review on properties, challenges and commercial aspects of eco-friendly biolubricants productions <i>Uzair Ahmad Salman Raza Naqvi Imtiaz Ali Muhammad Naqvi Saira Asif Awais Bokhari Dagmar Juchelková Jiří Jaromír Klemes</i> <i>Chemosphere</i> , Volume 309, Part 1, Article Number 136622 Impact Factor: 8.943 Quartile: 1 Citations: 42 DOI: https://doi.org/10.1016/j.chemosphere.2022.136622	2022
Anaerobic digestion of sewage sludge for biogas & biohydrogen production: State-of-the-art trends and prospects <i>Muhammad Usmaan Bin Khawer Salman Raza Naqvi Imtiaz Ali Muazzam Arshad Dagmar Juchelková Muhammad Waqas Anjum Muhammad Naqvi</i> <i>Fuel</i> , Volume 329, Article Number 125416 Impact Factor: 8.035 Quartile: 1 Citations: 90 DOI: https://doi.org/10.1016/j.fuel.2022.125416	2022
Investigation of combustion performance of tannery sewage sludge using thermokinetic analysis and prediction by artificial neural network <i>Arslan Khan Imtiaz Ali Wasif Farooq Salman Raza Naqvi Muhammad Taqi Mehran Ameen Shahid Rabia Liaquat Muhammad Waqas Anjum Muhammad Naqvi</i> <i>Case Studies in Thermal Engineering</i> , Volume 40, Article Number 102586 Impact Factor: 6.268 Quartile: 1 Citations: 37 DOI: https://doi.org/10.1016/j.csite.2022.102586	2022
Developing pretreatment methods to promote the production of biopolymer and bioethanol from residual algal biomass (RAB) <i>Fares AlMomani Moayyad Shawaqfah Malak Alsarayreh Majeda Khraisheh Bassim H. Hameed Salman Raza Naqvi Mohammed Berkani Sunita Varjani</i> <i>Algal Research</i> , Volume 68, Article Number 102895 Impact Factor: 5.1 Quartile: 1 Citations: 14 DOI: https://doi.org/10.1016/j.algal.2022.102895	2022
Recent progress in microalgae-derived biochar for the treatment of textile industry wastewater <i>Abdul Ahad Khan Jawad Gul Salman Raza Naqvi Imtiaz Ali Wasif Farooq Rabia Liaquat Hamad AlMohamadi Libor Štěpanec Dagmar Juchelková</i> <i>Chemosphere</i> , Volume 306, Article Number 135565 Impact Factor: 8.943 Quartile: 1 Citations: 125 DOI: https://doi.org/10.1016/j.chemosphere.2022.135565	2022
Comparative study of machine learning methods integrated with genetic algorithm and particle swarm optimization for bio-char yield prediction <i>Zeeshan Ul Haq Hafeez Ullah Muhammad Nouman Aslam Khan Salman Raza Naqvi Abdul Ahad Nor Aishah Saidina Amin</i> <i>Bioresource Technology</i> , Volume 363, Article Number 128008 Impact Factor: 11.4 Quartile: 1 Citations: 54 DOI: https://doi.org/10.1016/j.biortech.2022.128008	2022
Exergy, advance exergy, and exergo-environmental based assessment of alkanol amine- and piperazine-based solvents for natural gas purification <i>Bilal Kazmi Syed Ali Ammar Taqvi Faizan Raza Junaid Haider Salman Raza Naqvi Muhammad Saad Khan Abulhassan Ali</i> <i>Chemosphere</i> , 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	2022
A highly efficient A-site deficient perovskite interlaced within two dimensional MXene nanosheets as an active electrocatalyst for hydrogen production <i>Ramsha Khan Muhammad Taqi Mehran Salman Raza Naqvi Asif Hussain Khoja Mutawara Mahmood Baig Muhammad Aftab Akram Faisal Shahzad Sajjad</i>	2022

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:** 32

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

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:** 16

DOI: <https://doi.org/10.1016/j.jece.2022.108293>

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>

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 Irfan 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:** 65

DOI: <https://doi.org/10.1016/j.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](https://doi.org/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 Sohilaith 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 Ittikhar 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](https://doi.org/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](https://doi.org/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 <i>Mutawara Mahmood Baig Muhammad Taqi Mehran Ramsha Khan Khalid Mehmood Salman Raza Naqvi Asif Hussain Khoja Iftikhar Hussain Gul</i> <i>Surface and Coatings Technology</i> , Volume 421, Article Number 127455 Impact Factor: 4.865 Quartile: 1 DOI: https://doi.org/10.1016/j.surfcoat.2021.127455	2021
Amine-impregnated silica zeolite from microalgae ash at different calcination temperatures for CO₂ capture <i>Kouer Zhang Salman Raza Naqvi Nor Aishah Saidina Amin Cui Quan Xiangyu Jia Yilin Zhang Ningbo Gao</i> <i>International Journal of Energy Research</i> , Pages 1-14 Impact Factor: 4.672 Quartile: 1 Citations: 5 DOI: http://doi.org/10.1002/er.7241	2021
A Comparative Study of Machine Learning Methods for Bio-oil Yield Prediction–A Genetic Algorithm-Based Features Selection <i>Zahid Ullah Muzammil khan Salman Raza Naqvi Wasif Farooq Haiping Yang Shurong Wang Dai-Viet N. Vo</i> <i>Bioresource Technology</i> , Volume 335, Article Number 125292 Impact Factor: 11.889 Quartile: 1 Citations: 123 DOI: https://doi.org/10.1016/j.biortech.2021.125292	2021
Investigation of slow pyrolysis mechanism and kinetic modeling of Scenedesmus quadricauda biomass <i>Sajjad AkbarKhan Imtiaz Ali Salman Raza Naqvi Kai Li Muhammad Taqi Mehran Asif Hussain Khoja Abdulrahman Anwar Alarabi A.E Atabani</i> <i>Journal of Analytical and Applied Pyrolysis</i> , Volume 158, Article Number 105149 Impact Factor: 6.437 Quartile: 1 Citations: 28 DOI: https://doi.org/10.1016/j.jaap.2021.105149	2021
Synthesis of Ash Derived Co/Zelite Catalyst for Hydrogen Rich Syngas Production via Partial Oxidation of Methane <i>Amer Zafar Bilal A. Khan Asif Hussain Khoja Uneeb Masood Khan Qassam Sarmad Muhammad Taqi Mehran Salman Raza Naqvi Majid Ali</i> <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , Volume 16(3), Pages 507-516 Impact Factor: 0 Citations: 7 DOI: 10.9767/bcrec.16.3.10614.507-516	2021
Reutilizing Methane Reforming Spent Catalysts as Efficient Overall Water-Splitting Electrocatalysts <i>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</i> <i>ACS Omega</i> , Volume 6(33), Pages 21316–21326 Impact Factor: 3.512 Quartile: 2 Citations: 21 DOI: https://doi.org/10.1021/acsomega.1c01558	2021
Computational Analysis of the Hydrodynamic Behavior for Different Air Distributor Designs of Fluidized Bed Gasifier <i>Naveed Raza Muhammad Ahsan Muhammad Taqi Mehran Iftikhar Ahmad Salman Raza Naqvi</i> <i>Frontiers in Energy Research</i> , Volume 9, Issues 1, Article Number 692066 Impact Factor: 4.008 Quartile: 2 Citations: 17 DOI: https://doi.org/10.3389/fenrg.2021.692066	2021
Production and characterization of bio-oils from fast pyrolysis of tobacco processing wastes in an ablative reactor under vacuum <i>Nattawut Khuenkaeo Sanphawat Phromphithak Thossaporn Onsree Salman Raza Naqvi Nakorn Tippayawong</i> <i>Plos One</i> , Volume 16, 7, Article Number e0254485 Impact Factor: 3.240 Quartile: 2 Citations: 38 DOI: https://doi.org/10.1371/journal.pone.0254485	2021
Recent developments on sewage sludge pyrolysis and its kinetics: Resources recovery, thermogravimetric platforms, and innovative prospects <i>Salman Raza Naqvi Rumaisa Tariq Muhammad Shahbaz Muhammad Naqvi Muhammad Aslam Zakir Khan Hamish Mackey Gordon Mckay Tareq Al-Ansari</i> <i>Computers and Chemical Engineering</i> , Volume 150, Article Number 107325 Impact Factor: 3.845 Quartile: 2 Citations: 120 DOI: https://doi.org/10.1016/j.compchemeng.2021.107325	2021
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 Lai 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 Abdullallah Faisal Saleem
Fuel , Volume 285, Article Number 119107

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

DOI: [10.1016/j.fuel.2020.119107](https://doi.org/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 <i>B. Azeem K. KuShaari M. Naqvi L.K. Keong M.K. Almesfer Z.A-Qodah Salman Raza Naqvi Nouredine Elboughdiri</i> <i>Polymers</i> , Volume 12, Issue 2, Article Number 29 Impact Factor: 4.329 Quartile: 1 Citations: 71 DOI: https://doi.org/10.3390/polym12020400	2020
Thermodynamic Performance Analysis of Hydrofluoroolefins (HFO) Refrigerants in Commercial Air-Conditioning Systems for Sustainable Environment <i>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</i> <i>Processes</i> , Volume 8, Issue 2, Article Number 187 Impact Factor: 2.847 Quartile: 3 Citations: 9 DOI: https://doi.org/10.3390/pr8020187	2020
Experimental Study of CO2 Conversion into Methanol by Synthesized Photocatalyst (ZnFe2O4/TiO2) Using Visible Light as an Energy Source <i>Salman Raza Naqvi Umair Sikandar Numair Manzoor Muhammad Sadiq Muhammad Naqvi</i> <i>Catalysts</i> , Volume 10, Issue 2, Article Number 163 Impact Factor: 4.146 Quartile: 2 Citations: 19 DOI: https://doi.org/10.3390/catal10020163	2020
PVA/starch/propolis/anthocyanins rosemary extract composite films as active and intelligent food packaging materials <i>Pakeeza Mustafa Tahir Ahmed Muhammad Bilal Khan Niazi Zaib Jahan Ghufrana Samin Arshad Hussain Salman Raza Naqvi</i> <i>Journal of Food Safety</i> , Volume 40, Issue 1, Article Number e12725 Impact Factor: 1.953 Quartile: 3 Citations: 102 DOI: doi.org/10.1111/jfs.12725	2020
Polyetherimide-Montmorillonite Nano-Hybrid Composite Membranes: CO2 Permeance Study via Theoretical Models <i>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</i> <i>Processes</i> , Volume 8, Issue 1, Article Number 118 Impact Factor: 2.847 Quartile: 3 Citations: 2 DOI: https://doi.org/10.3390/pr8010118	2020
Use of Gasoline, LPG and LPG-HHO Blend in SI Engine: A Comparative Performance for Emission Control and Sustainable Environment <i>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</i> <i>Processes</i> , Volume 8, Issue 1, Article Number 74 Impact Factor: 2.847 Quartile: 3 Citations: 48 DOI: https://doi.org/10.3390/pr8010074	2020
Improved project control for sustainable development of construction sector to reduce environment risks <i>Summaira Malik Fareena Fatima Asma Imran Lai Fatt Chuah Ji?i Jaromír Klemes 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?i Jaromír Klemes 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</i> <i>Journal of Cleaner Production</i> , Volume 240, Pages 118-224 Impact Factor: 7.246 Quartile: 1 Citations: 39 DOI: https://doi.org/10.1016/j.jclepro.2019.118214	2019
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 <i>Zakir Khan Suzana Yusup Muhammad Aslam Abrar Inayat Muhammad Shahbaz Salman Raza Naqvi Robina Farooq Ian Watson</i> <i>Journal of Cleaner Production</i> , Volume 236, 1 November 2019, 117636 Impact Factor: 7.246 Quartile: 1 Citations: 45 DOI: 10.1016/j.jclepro.2019.117636	2019
Optimal integration of a biomass-based polygeneration system in an iron production plant for negative carbon emissions <i>Aristotle T Ubando Wei?Hsin Chen Raymond R Tan Salman Raza Naqvi Aristotle T Ubando Wei?Hsin Chen Raymond R Tan</i> <i>International Journal of Energy Research</i> , Pages 1- 17	2019

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 <i>Abrar Inayat Muhammad Ayoub Ahmad Z. Abdullah Sami Ullah Salman Raza Naqvi</i> <i>Environmental Progress & Sustainable Energy</i> , Volume 38, Issue 4, Article Number UNSP 13129 Impact Factor: 1.989 Quartile: 3 Citations: 8 DOI: 10.1002/ep.13129	2019
Oxidative reaction interaction and synergistic index of emulsified pyrolysis bio-oil/diesel fuels <i>Bo-JhihLin Wei-Hsin Chen Tzu-Hsien Hsieh Hwai Chyuan Ong Pau Loke Show Salman Raza Naqvi</i> <i>Renewable Energy</i> , Volume 136, Pages 223-234 Impact Factor: 6.274 Quartile: 1 Citations: 35 DOI: 10.1016/j.renene.2018.12.111	2019
Tailored hydrotalcite-based Mg-Ni-Al catalyst for hydrogen production via methane decomposition: Effect of nickel concentration and spinel-like structures <i>Mohamad Fakhru Samsudin Suriati Sufian KuZilati KuShaari Chong Fai Kait Salman Raza Naqvi Wei-Hsin Chen Umair Sikander</i> <i>International Journal of Hydrogen Energy</i> , 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	2019
Demonstrating the suitability of canola residue biomass to biofuel conversion via pyrolysis through reaction kinetics, thermodynamics and evolved gas analyses <i>Mudassir Hussain Tahir Gülce Çakman Jillian L.Goldfar Yildiray Topcu Yildiray Topcu Salman Raza Naqvi Selim Ceylan</i> <i>Bioresource Technology</i> , Volume 279, Pages 67-73 Impact Factor: 7.539 Quartile: 1 Citations: 119 DOI: 10.1016/j.biortech.2019.01.106	2019
Thermo-kinetics and gaseous product analysis of banana peel pyrolysis for its bioenergy potential <i>Mudassir HussainTahir Zilong Zhao Jianmin Ren Tanveer Rasool Salman Raza Naqvi</i> <i>Biomass & Bioenergy</i> , Volume 122, Pages 193-201 Impact Factor: 3.551 Quartile: 1 Citations: 115 DOI: 10.1016/j.biombioe.2019.01.009	2019
Effect of ultra-violet cross-linking on the properties of boric acid and glycerol co-plasticized thermoplastic starch films <i>Bahram Khan Muhammad Bilal Khan Niazi Zaib Jahan Wasif Farooq Salman Raza Naqvi Majid Ali Israr Ahmed Arshad Hussain</i> <i>Food Packaging and Shelf Life</i> , Volume 19, Pages 184-192 Impact Factor: 4.244 Quartile: 1 Citations: 25 DOI: 10.1016/j.fpsl.2018.05.006	2019
Synergistic effect on co-pyrolysis of rice husk and sewage sludge by thermal behavior, kinetics, thermodynamic parameters and artificial neural network <i>Salman Raza Naqvi Zeeshan Hameed Rumaisa Tariq Syed A. Taqvi Imtiaz Ali Muhammad Bilal Khan Niazi Tayyaba Noor Arshad Hussain Naseem Iqbal Muhammad Shahbaz</i> <i>Waste Management</i> , NULL Impact Factor: 5.448 Quartile: 1 Citations: 194 DOI: 10.1016/j.wasman.2018.12.031	2019
Pyrolysis of high-ash sewage sludge: Thermo-kinetic study using TGA and artificial neural networks <i>Salman Raza Naqvi Rumaisa Tariq Zeeshan Hameed Imtiaz Ali Syed A. Taqvi Muhammad Naqvi Muhammad Bilal Khan Niazi Tayyaba Noor Wasif Farooq</i> <i>Fuel</i> , Volume 233, Pages 529-538 Impact Factor: 5.128 Quartile: 1 Citations: 190 DOI: 10.1016/j.fuel.2018.06.089	2018
New trends in improving gasoline quality and octane through naphtha isomerization: a short review <i>Salman Raza Naqvi Muhammad Naqvi Tayyaba Noor Abdul?Sattar Nizami Mohammad Rehan Muhammad Ayoub Ayesha Bibi</i> <i>Applied Petrochemical Research</i> , Volume 8, Pages 131–139 Impact Factor: - DOI: 10.1007/s13203-018-0204-y	2018
A critical review on recycling of end-of-life carbon fibre/glass fibre reinforced composites waste using pyrolysis towards a circular economy <i>Salman Raza Naqvi H. Mysore Prabhakara E.A. Bramer W. Dierkes R. Akkerman G. Brem</i> <i>Resources, Conservation & Recycling</i> , NULL	2018

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 <i>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</i> <i>Applied Energy</i> , NULL Impact Factor: 8.426 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.apenergy.2018.05.005	2018
Kinetic and Thermodynamic Analyses of Sugar Cane Bagasse and Sewage Sludge Co-pyrolysis Process <i>Zeeshan Hameed Salman Raza Naqvi Rumaisa Tariq Imtiaz Ali Anas A. Makki Zaeem Aman</i> <i>Energy & Fuels</i> , NULL Impact Factor: 3.021 Quartile: 2 Citations: 64 DOI: 10.1021/acs.energyfuels.8b01972	2018
Artificial neural network approach for the steam gasification of palm oil waste using bottom ash and CaO <i>Muhammad Shahbaz Syed A. Taqvi Adrian Chun Minh Loy Abrar Inayat Fahim Uddin Awais Bokhari Salman Raza Naqvi</i> <i>Renewable Energy</i> , Volume: 132 Pages: 243-254 Impact Factor: 5.439 Quartile: 1 Citations: 120 DOI: 10.1016/j.renene.2018.07.142	2018
Pyrolysis of high ash sewage sludge: Kinetics and thermodynamic analysis using Coats-Redfern method <i>Salman Raza Naqvi Rumaisa Tariq Zeeshan Hameed Imtiaz Ali Muhammad Naqvi Wei-Hsin Chen Selim Ceylan Harith Rashid Junaid Ahmad Syed A. Taqvi</i> <i>Muhammad Shahbaz</i> <i>Renewable Energy</i> , NULL Impact Factor: 5.439 Quartile: 1 Citations: 335 DOI: https://doi.org/10.1016/j.renene.2018.07.094	2018
Effect of drying parameters on the physical, morphological and thermal properties of spray-dried inulin <i>Israr Ahmed Muhammad Bilal Khan Niazi Zaib Jahan Dr. Salman Raza Naqvi</i> <i>Journal of Polymer Engineering</i> , NULL Impact Factor: 1.072 Quartile: 4 Citations: 8 DOI: https://doi.org/10.1515/polyeng-2017-0064	2018
Catalytic fast pyrolysis of rice husk: Influence of commercial and synthesized microporous zeolites on deoxygenation of biomass pyrolysis vapors <i>Salman Raza Naqvi Muhammad Naqvi</i> <i>International Journal of Energy Research</i> , NULL Impact Factor: 3.343 Quartile: 1 Citations: 50 DOI: https://doi.org/10.1002/er.3943	2018
Kinetic analysis of Botryococcus braunii pyrolysis using model-free and model fitting methods <i>Imtiaz Ali Salman Raza Naqvi Ali Bahadar</i> <i>Fuel</i> , NULL Impact Factor: 5.128 Quartile: 1 Citations: 74 DOI: https://doi.org/10.1016/j.fuel.2017.11.046	2018
Influence of Plasticizers on Mechanical and Thermal Properties of Methyl Cellulose-Based Edible Films <i>Awais Khan Muhammad Bilal Khan Niazi Salman Raza Naqvi Wasif Farooq</i> <i>Journal of Polymers and the Environment</i> , Volume 26, Pages 291–300 Impact Factor: 2.765 Quartile: 2 Citations: 15 DOI: doi:10.1007/s10924-017-0953-1	2018
Syngas Production from Steam Gasification of Palm Kernel Shell with Subsequent CO2 Capture Using CaO Sorbent: An Aspen Plus Modeling <i>Muhammad Shahbaz Suzana Yusup Abrar Inayat Muhammad Ammar David Onoja Patrick Angga Pratama Salman Raza Naqvi</i> <i>Energy & Fuels</i> , Volume 31(11), Pages 12350–12357 Impact Factor: 3.024 Quartile: 2 Citations: 97 DOI: 10.1021/acs.energyfuels.7b02670	2017
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

<i>Salman Raza Naqvi Imtiaz Ali A.E. Atabani</i> 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 <i>Muhammad Shozab Mehdi Muhammad Taqi Mehran Salman Raza Naqvi Shafiq Uz Zaman Asif Hussain Khoja Ali Bahadar</i> 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	2021
Recovery of Carbon Fibers from End-of-Life Carbon Fiber Reinforced Composite Wastes Through a Two Steps Pyrolysis Process <i>Salman Raza Naqvi G. Brem</i> International Conference on Energy, Water and Environment – ICEWE-2021, res.country(177,) Citations: N/A DOI: 978-969-23447-1-5	2021
Development of Reaction Kinetics Model for the Production of Synthesis Gas from Dry Methane Reforming <i>Abrar Inayat Muhammad A.B. Ahmad Mohsin Raza Chaouki Ghenai Salman Raza Naqvi Muhammad Ayoub</i> 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	2021
Partial oxidation of methane using ash derived Co/Zelite catalyst for hydrogen rich syngas production <i>Amer Zafar Bilal Khan Asif Hussain Khoja Taqi Mehran Salman Raza Naqvi Majid Ali</i> International Conference (Virtual) on Sustainable Energy & Catalysis (ICSEC 2021, res.country(157,) Citations: N/A DOI: NA	2021
RECENT DEVELOPMENTS ON BIOMASS UTILIZATION FOR BIOENERGY PRODUCTION IN PAKISTAN <i>Salman Raza Naqvi</i> 4TH ASIAINTERNATIONAL MULTIDISCIPLINARY CONFERENCE , res.country(157,) Citations: N/A DOI: https://doi.org/10.31580/sps.v2i2.1461	2020
Catalytic Impact of Layered and Delaminated Zeolites on Fast Pyrolysis of Microalgae using Fixed-Bed Reactor and PY-GC/MS <i>Salman Raza Naqvi Muhammad Naqvi Abrar Inayat</i> 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	2019
Recovery of glass fibers from wind turbine blades composite using a two steps pyrolysis process <i>Salman Raza Naqvi G. Brem R. Akkerman</i> International Conference on Nanoscience and Nanotechnology (ICONN 2018), res.country(177,) Citations: N/A DOI: N/A	2018
Olefins Production Using MCM-22 <i>Ali Ahmad Habib Nasir Muhammad Rafique Salman Raza Naqvi</i> 3rd Conference on Emerging Materials and Processes (CEMP), res.country(177,) Citations: N/A DOI: http://cemp.scme.nust.edu.pk/	2017
Gasification Integrated with Small Chemical Pulp Mills for Fuel and Energy Production <i>Muhammad Naqvi Erik Dahlquist Abdul-Sattar Nizami Muhammad Danish Salman Naqvi Usman Farooq Abdul Sattar Qureshi M.Rehan</i> 9th International Conference on Applied Energy, ICAE2017, res.country(231,) Citations: N/A DOI: 10.1016/j.egypro.2017.12.156	2017
Fruit Waste to Energy through Open Fermentation <i>Abdul Sattar Qureshi Imrana Khushk Salman Raza Naqvi Salman Ahmed Simiar Haider Ali Muhammad Naqvi Muhammad Danish Ayyaz Ahmed Hamid</i>	2017

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 Yoshimitsu 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 <i>Le K.H. Pham Suwadee Kongparakul Prasert Reubroycharoen Surachai Karnjanakom Salman Raza Naqvi Guoqing Guan Chanatip Samart</i> In: <i>Book on Innovations in Thermochemical Technologies for Biofuel Processing</i> , 1st Edition, Chapter 6, Pages 147-177 Citations: 5 DOI: https://doi.org/10.1016/B978-0-323-85586-0.00012-3	2022
Circular Economy Approach to Address the Industrial Solid Waste Management <i>Salman Raza Naqvi Bilal Beig Muhammad Naqvi</i> In: <i>Handbook of Solid Waste Management</i> , Pages 1-20 Citations: N/A DOI: https://doi.org/10.1007/978-981-15-7525-9_62-1	2021
Catalytic pyrolysis of biomass using shape-selective zeolites for bio-oil enhancement <i>Salman Raza Naqvi Syed Ali Ammar Taqvi M. Taqi Mehran Asif Hussain Khoja Awais Bokhari M. Naqvi Nor Aishah Saidina Amin</i> In: <i>Book on Bioenergy Resources and Technologies</i> , Chapter 2, Pages 39-60 Citations: 7 DOI: https://doi.org/10.1016/B978-0-12-822525-7.00002-0	2021
Advance strategies for tar elimination from biomass gasification techniques <i>Muddasser Inayat Muhammad Shahbaz Salman Raza Naqvi Shaharin A Sulaiman</i> In: <i>Book on Bioenergy Resources and Technologies</i> , Chapter 3, Pages 61-88 Citations: 12 DOI: https://doi.org/10.1016/B978-0-12-822525-7.00010-X	2021
Glycerol Conversion to Diglycerol via Etherification under Microwave Irradiation <i>Muhammad Ayoub Wan Jie Wei Manzoor Ahmad Ranitha Mathialagan Mohammed Danish Sami Ullah Salman Raza Naqvi Sarah Farrukh</i> In: <i>Book on Apolipoproteins, Triglycerides and Cholesterol</i> , Chapter 7, Pages 115-231 Citations: N/A DOI: 10.5772/intechopen.90513	2020
Adsorption of Chromium from Aqueous Solution using Powder of Potato Peelings as a Sorbent <i>Sarah Farrukh Salman Raza Naqvi Muhammad Ayoub Mohd Hizami Mohd Yusoff Aqsha Sami Ullah Mushtaq Ahmad Muhammad Zafar</i> In: <i>Nurture Young Talent, MNNF Publisher</i> , 1st edition Citations: N/A DOI: https://www.pnm.gov.my/	2019
Chapter 6 - Microwave enhanced catalytic conversion of canola-based methyl ester: Optimization and parametric study <i>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</i> In: <i>Advanced Biofuel</i> , Pages 153-166 Citations: 42 DOI: 10.1016/B978-0-08-102791-2.00006-4	2019

Editorial Activities

Edited Journal Issue / Proceeding / Book Impact Factor: 4.14	2021
Reviewed Papers for Journals Impact Factor: 5.5	2020
Reviewed Papers for Journals Impact Factor: 5.5	2020
Reviewed Papers for Journals Impact Factor: 1.711	2020
Reviewed Papers for Journals	2020

Impact Factor: 3.4	
Reviewed Papers for Journals	2020
Impact Factor: 5.5	
Reviewed Papers for Journals	2020
Impact Factor: 5.44	
Reviewed Papers for Journals	2020
Impact Factor: 5.5	
Reviewed Papers for Journals	2019
Impact Factor: 0	
Reviewed Papers for Journals	2019
Impact Factor: 5.7	
Reviewed Papers for Journals	2019
Impact Factor: 5.5	
Reviewed Papers for Journals	2019
Impact Factor: 5.7	
Reviewed Papers for Journals	2019
Impact Factor: 3.741	
Reviewed Papers for Journals	2019
Impact Factor: 1.711	
Reviewed Papers for Journals	2019
Impact Factor: 1.1	
Reviewed Papers for Journals	2019
Impact Factor: 7.181	
Reviewed Papers for Journals	2019
Impact Factor: 0.856	
Reviewed Papers for Journals	2019
Impact Factor: 1.711	
Reviewed Papers for Journals	2019
Impact Factor: 26.46	
Reviewed Papers for Journals	2019
Impact Factor: 7.181	
Reviewed Papers for Journals	2019
Impact Factor: 3.537	
Reviewed Papers for Journals	2019
Impact Factor: 4.72	
Reviewed Papers for Journals	2019

Reviewed Papers for Journals	
Impact Factor: 3.413	
	2019
Reviewed Papers for Journals	
Impact Factor: 4.72	
	2019
Reviewed Papers for Journals	
Impact Factor: 4.908	
	2019
Reviewed Papers for Journals	
Impact Factor: 4.908	
	2019
Reviewed Papers for Journals	
Impact Factor: 4.72	
	2018
Reviewed Papers for Journals	
Impact Factor: 2.358	
	1970
Reviewed Papers for Journals	
Impact Factor: 5.44	