

Syed Asad Ali Zaidi

Assistant Professor

Pakistan Navy Engineering College

Email: asadali@pnec.nust.edu.pk

Contact: 02134120454

LinkedIn: <https://www.linkedin.com/in/asadalizaidi/>



About

Dr. Syed Asad Ali Zaidi is working as Assistant Professor in the Pakistan Navy Engineering College. Dr. Syed Asad Ali Zaidi has a PhD in Power Engineering And Engineering Thermophysics. Dr. Syed Asad Ali Zaidi has published 64 research articles & conference papers having a citation count of 1345, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Power Engineering And Engineering Thermophysics Harbin Engineering University , China	2016 - 2019
MBA in Management And Administrative Science University of Karachi , Pakistan	2013 - 2015
MS in Materials Engineering NED UET Karachi , Pakistan	2010 - 2013
BE in Mechanical Engineering NUST, Islamabad , Pakistan	2005 - 2009

Experience

Assistant Professor Pakistan Navy Engineering College	2021- Present
Assistant Professor Pakistan Navy Engineering College	2019 - 2021
Lecturer Pakistan Navy Engineering College	2014 - 2019
PhD Researcher in Bioenergy Harbin Engineering University, China , Harbin Engineering University, China	2016 - 2019
Lecturer Nazeer Hussain University , Karachi	2013 - 2014
Mechanical Engineer Karachi Shipyard & Engineering Works Ltd ,	2009 - 2013
Visiting Lecturer Dow University of Health Sciences , Karachi	2009 - 2009

Awards

HEC Approved Supervisor	2020
Recognized as HEC Approved PhD Supervisor in the discipline of Engineering & Technology for a period of three (03) years	
Certificate of Reviewing	2017
Certificate of Reviewing Original Articles in recognition of the review made for 4th IEEE International Conference on Engineering Technologies and Applied Sciences (ICETAS 2017) held at AMA International University, Bahrain from 29 Nov-1 Dec, 2017.	
Certificate of Reviewing	2017
Certificate of Reviewing Original Articles in recognition to the review made for International Conference on Engineering Technologies and Social Sciences (ICETSS 2017) held at Asian Institute of Technology (AIT) Conference Center Bangkok Thailand from 7-8 August, 2017.	
CSC Scholarship	2016
CSC Scholarship was awarded by Chinese Scholarship Council for PhD study. The scholarship covered (including tuition fee, lodging, living allowance and medical insurance)	
Presentation Certificate	2016
Certificate for Presenting the Paper on 6th International Mechanical Engineering Congress on Green Systems and Innovation (2016).The certificate was awarded for presenting a paper on "Design and Thermal Analysis of Parabolic Trough Solar Thermal Power Plant", at IEP Convention Centre, Karachi. The event was jointly organized by IEP Karachi center and NED University in collaboration with HEC Pakistan.	
Participation Certificate	2015
Certificate of Participation for workshop on Nuclear Power and Policy. This certificate was awarded for attending a two-day workshop on Nuclear Power and Policy at Safety Analysis Centre (SAC) Pakistan Nuclear Regulatory Authority (PNRA) , Karachi held at 25-25 Nov 2015.	
Appreciation Certificate	2012
Certificate of Appreciation for working at F22P Ship No. 4 (PNS Aslat). This certificate of recognition and appreciation was awarded for performing duty on F22P ship No.4 (PNS Aslat) as Assistant Manager (Outfit Design) with Chinese TA Team from China Shipbuilding and Offshore Company.	

Research Articles

Performance and Environmental Sustainability of Fish Waste Biodiesel on Diesel Engines	2025
<i>Mehmood Ali Muhammad Shakaib Syed Asad Ali Zaidi Asad Javed Sohaib Zia Khan Ashraf Aly Hassan Sustainability</i> , Volume 17(12), Article Number 5385	
Impact Factor: 3.300 Quartile: 2	
DOI: https://doi.org/10.3390/su17125385	
Impact of different weight fractions of silica nanoparticles on the surface finish, rheological, and mechanical properties of photopolymer 3D printed nanocomposites using UV lasers	2025
<i>Sohaib Zia Khan Muhammad Asif Syed Asad Ali Zaidi Fitriani Imaduddin Abdulrahman Aljabri Ahmed A. D. Sarhan Progress in Additive Manufacturing</i> , Pages 1-18	
Impact Factor: 4.400 Quartile: 2	
DOI: https://doi.org/10.1007/s40964-025-01093-6	
Thermo-Mechanical Process-Induced Residual Stresses and Deformation Analysis during Manufacturing of Hull Structure	2024
<i>Muhammad Asif Syed Asad Ali Zaidi Saad Ahmed Memoria Investigaciones en Ingeniería</i> , Volume 26, Pages 91-109	
Impact Factor: 0.400 Quartile: 4	
DOI: https://doi.org/10.36561/ING.27.7	
Comparison of Machining Simulations of Aerospace Alloy Al6061-T6 Using Lagrangian and Smoothed Particle Hydrodynamics Techniques	2022
<i>Muhammad Nauman Nawaz Sohaib Zia Khan Muhammad Asif Abdulrahman Aljabri Asad Ali Zaidi Essam R. I. Mahmoud Lubricants</i> , Volume 10, Issue 11, Article Number 310	
Impact Factor: 3.584 Quartile: 2	
DOI: https://doi.org/10.3390/lubricants10110310	
Past, present and future of materials' applications for CO2 capture: A bibliometric analysis	2022
<i>Muhammad Nihal Naseer Syed Asad Ali Zaidi Kingshuk Dutta Yasmin Abdul Wahab Juhana Jaafar Rabia Nusrat Ibrar Ullah Bumjoo Kim Energy Reports</i> , Volume 8, Pages 4252-4264	
Impact Factor: 6.870 Quartile: 1 Citations: 19	
DOI: 10.1016/j.egy.2022.02.301	
Modeling, design optimization and field testing of a solar still with corrugated absorber plate and phase change material for Karachi weather conditions	2022

Hamza Ahmed Antash Najib Asad Ali Zaidi Muhammad Nihal Naseer Bumjoo Kim <i>Energy Reports</i> , Volume 8, Pages 11530-11546 Impact Factor: 4.937 Quartile: 2 Citations: 18 DOI: https://doi.org/10.1016/j.egy.2022.08.276	
Feasibility analysis of wind energy potential along the coastline of Pakistan Syed Sulman Ahmad Ans Al Rashid Syed Ali Raza Syed Asad Ali Zaidi Sohaib Zia Khan Muammer Koc <i>Ain Shams Engineering Journal</i> , Volume 13, Issue 1, Article Number 101542 Impact Factor: 3.180 Quartile: 2 Citations: 22 DOI: https://doi.org/10.1016/j.asej.2021.07.001	2022
Performance analysis of hydrogen fuel cell with two-stage turbo compressor for automotive applications Nabeel Ahsan Ans Al Rashid Asad A. Zaidi Ramsha Imran Sikandar Abdul Qadir <i>Energy Reports</i> , Volume 7, Pages 2635-2646 Impact Factor: 4.937 Quartile: 2 Citations: 38 DOI: https://doi.org/10.1016/j.egy.2021.05.007	2021
Statistical Modeling and Performance Optimization of a Two-Chamber Microbial Fuel Cell by Response Surface Methodology Muhammad Nihal Naseer Syed Asad Ali Zaidi Hamdullah Khan Sagar Kumar Muhammad Taha bin Owais Yasmin Abdul Wahab Kingshuk Dutta Juhana Jaafar Nor Aliya Hamizi Mohammad Aminul Islam Hanim Hussin Irfan Anjum Badruddin Hussein Alrobei <i>Catalysts</i> , Volume 11(10), Article Number 1202 Impact Factor: 4.146 Quartile: 2 Citations: 10 DOI: https://doi.org/10.3390/catal11101202	2021
Natural fiber reinforced composites: Sustainable materials for emerging applications Muhammad Yasir Khalid Ans Al Rashid Zia Ullah Arif Waqas Ahmed Hassan Arshad Asad A. Zaidi <i>Results in Engineering</i> , Volume 11, Article Number 100263 Impact Factor: - Citations: 455 DOI: https://doi.org/10.1016/j.rineng.2021.100263	2021
Effect of Autoclave Pretreatment on Biogas Production through Anaerobic Digestion of Green Algae RuiZhe Feng QiaoYan Li Asad A. Zaidi Hao Peng Yue Shi <i>Periodica Polytechnica Chemical Engineering</i> , Volume 65, Issue 4, Pages 483-492 Impact Factor: 1.744 Quartile: 3 Citations: 9 DOI: https://doi.org/10.3311/PPch.18064	2021
Recent developments in gallium nitride technology for sensor applications Yasmin Abdul Wahab Muhammad Nihal Naseer Ibrar Ullah Syed Asad Ali Zaidi Mohd Rafie Johan <i>Malaysian NANO-An International Journal (MNIJ)</i> , Volume 1, Issue 1, Page 28-46 Impact Factor: - DOI: https://doi.org/10.22452/mnij.vol1no1.3	2021
In-situ crossover diagnostics to assess membrane efficacy for non-aqueous redox flow battery Kashif Mushtaq Tiago Lagarteira Syed Asad Ali Zaidi Ad´elio Mendes <i>Journal of Energy Storage</i> , Volume 40, Article Number 102713 Impact Factor: 8.907 Quartile: 1 Citations: 17 DOI: https://doi.org/10.1016/j.est.2021.102713	2021
NaOH–urea pretreatment for biogas enhancement from algal biomass anaerobic digestion RuiZhe Feng Syed Asad Ali Zaidi QiaoYan Li Kun Zhang Yue Shi <i>Journal of Renewable and Sustainable Energy</i> , Volume 13, Article Number 033102 Impact Factor: 2.847 Quartile: 4 Citations: 4 DOI: https://doi.org/10.1063/5.0048341	2021
Nanoparticles Synergistic Effect with Various Substrate Pretreatment and their Comparison on Biogas Production from Algae Waste Asad A. Zaidi Sohaib Zia Khan Hamad Almohamadi Essam R. I. Mahmoud Muhammad Nihal Naseer <i>Bulletin of Chemical Reaction Engineering & Catalysis</i> , Volume 16 (2), Pages 374-382 Impact Factor: 0 Citations: 17 DOI: https://doi.org/10.9767/bcrec.16.2.10637.374-382	2021
Substrate degradation, biodiesel production, and microbial community of two electro-fermentation systems on treating oleaginous microalgae <i>Nannochloropsis</i> sp	2021

<p><i>Yue Shi Kaiguo Huang Xinxiang Pan Guobing Liu Yuhang Cai Asad A. Zaidi Kun Zhang</i> <i>Bioresource Technology</i>, Volume 329, Article Number 124932</p> <p>Impact Factor: 11.889 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1016/j.biortech.2021.124932</p>	
<p>Fuel Cell designing with optimal high speed air compressor</p> <p><i>Nabeel Ahsan Mahrukh Mehmood Asad A. Zaidi</i> <i>Energy and Thermofluid Engineering</i>, Volume 1, Issue 1, Pages 29-38</p> <p>Impact Factor: 0 DOI: https://doi.org/10.38208/ete.v1i1.11</p>	2021
<p>Effect of helium xenon as working fluid on centrifugal compressor of power conversion unit of closed Brayton cycle power plant</p> <p><i>Adil Malik Qun Zheng Shafiq ur Rehman Qureshi Syed Asad Ali Zaidi Tasneem Yaqoob Arif Aziz</i> <i>International Journal of Hydrogen Energy</i>, Volume 46, Issue 10, Pages 7546-7557</p> <p>Impact Factor: 4.939 Quartile: 2 Citations: 23 DOI: https://doi.org/10.1016/j.ijhydene.2020.11.255</p>	2021
<p>Reliability Centered Maintenance (RCM) of a Commercial HVAC Air Handling and Condensing Unit</p> <p><i>Sohaib Ahmed Muhammad Asif Syed Asad A Zaidi</i> <i>European Journal of Advances in Engineering and Technology</i>, Volume 7(7), Pages 1-6</p> <p>Impact Factor: - DOI: NA</p>	2020
<p>Effect of Volume Loading Rate and C/N on Ship Domestic Sewage Treatment by Two Membrane Bioreactors</p> <p><i>Yuhang Cai Asad A. Zaidi Peiqi Sun Yue Shi Kun Zhang Aqiang Lin</i> <i>Periodica Polytechnica-Chemical Engineering</i>, Volume 64(3), Pages 328-339</p> <p>Impact Factor: 3.778 Quartile: 2 Citations: 7 DOI: https://doi.org/10.3311/PPch.14672</p>	2020
<p>Pre-Feasibility Study of a Biogas Pant for Cattle Farms Based in Pakistan</p> <p><i>Syed Tahaul Huda Muhammad Saad Chinoy Muhammad Hamza Zafar Malick Asad Yaqoob Muhammad Asif Asad A Zaidi</i> <i>European Journal of Advances in Engineering and Technology</i>, Volume 7(5), Pages 11-16</p> <p>Impact Factor: - DOI: N/A</p>	2020
<p>Effect of helium xenon as working fluid on the compressor of power conversion unit of closed Brayton cycle HTGR power plant</p> <p><i>Adil Malik Qun Zheng Shafiq ur Rehman Qureshi Asad A. Zaidi</i> <i>International Journal of Hydrogen Energy</i>, Volume 45, Issue 16, Pages 10119-10129</p> <p>Impact Factor: 5.816 Quartile: 2 Citations: 21 DOI: https://doi.org/10.1016/j.ijhydene.2020.01.220</p>	2020
<p>Energy and exergy analyses of a solar desalination plant for Karachi Pakistan</p> <p><i>Adil Malik Shafiq R. Qureshi Nasir Abbas Asad A. Zaidi</i> <i>Sustainable Energy Technologies and Assessments</i>, Volume 37, Article Number 100596</p> <p>Impact Factor: 2.713 Quartile: 1 Citations: 27 DOI: https://doi.org/10.1016/j.seta.2019.100596</p>	2020
<p>A case study in the textile industry for the reduction of cost of quality</p> <p><i>Muhammad Rehan Yasin M Nasir Bashir Syed Asad Ali Zaidi</i> <i>Journal of Advances in Technology and Engineering Research</i>, Volume 5(6), Pages 219-230</p> <p>Impact Factor: 0 DOI: https://doi.org/10.20474/jater-5.6.1</p>	2019
<p>Effects of sono-assisted modified precipitation on the crystallinity, size, morphology, and catalytic applications of hematite (α-Fe₂O₃) nanoparticles: A comparative study</p> <p><i>Diaa Eldin Fouad Chunhong Zhang Tadele Daniel Mekuria Changlong Bi Asad A. Zaidi Ahmer Hussain Shah</i> <i>Ultrasonics Sonochemistry</i>, Volume 59, Article No.104713</p> <p>Impact Factor: 6.513 Quartile: 1 Citations: 43 DOI: 10.1016/j.ultsonch.2019.104713</p>	2019
<p>Influence of salinity on the biological treatment of domestic ship sewage using an air-lift multilevel circulation membrane reactor</p>	2019

<p><i>Yuhang Cai Asad A. Zaidi Yue Shi Kun Zhang Xin Li Shihao Xiao Aqiang Lin</i> <i>Environmental Science and Pollution Research</i> , Volume 26, Issue 36, Pages 37026–37036</p> <p>Impact Factor: 3.056 Quartile: 2 Citations: 20 DOI: https://doi.org/10.1007/s11356-019-06813-4</p>	2019
<p>Effect of hydraulic retention time on pollutants removal from real ship sewage treatment via a pilot-scale air-lift multilevel circulation membrane bioreactor</p> <p><i>Xin Li Asad A. Zaidi Yue Shi Kun Zhang Ruizhe Feng Aqiang Lin Chen Liu Yuhang Cai</i> <i>Chemosphere</i> , Volume 236, Article No. 124338</p> <p>Impact Factor: 5.778 Quartile: 1 Citations: 45 DOI: https://doi.org/10.1016/j.chemosphere.2019.07.069</p>	2019
<p>Concept Design of the Underwater Manned Seabed Walking Robot</p> <p><i>Asghar Khan Wang Liquan Wang Gang Muhammad Imran Hafiz Muhammad Waqas Asad A. Zaidi</i> <i>Journal of Marine Science and Engineering</i> , Volume 7, Issue 10, Article No. 366</p> <p>Impact Factor: 2.033 Quartile: 2 Citations: 14 DOI: https://doi.org/10.3390/jmse7100366</p>	2019
<p>Effect of pH on Pollutants Removal of Ship Sewage Treatment in an Innovative Aerobic-Anaerobic Micro-Sludge MBR System</p> <p><i>Yuhang Cai Teng Ben Asad A. Zaidi Yue Shi Kun Zhang Aqiang Lin Chen Liu</i> <i>Water Air and Soil Pollution</i> , Vol. 230:163</p> <p>Impact Factor: 1.900 Quartile: 3 Citations: 25 DOI: https://doi.org/10.1007/s11270-019-4211-0</p>	2019
<p>Nitrogen removal augmentation of ship sewage by an innovative aerobic-anaerobic micro-sludge MBR technology</p> <p><i>Yuhang Cai Teng Ben Asad A. Zaidi Yue Shi Kun Zhang</i> <i>Process Biochemistry</i> , Volume 82, Pages 123-134</p> <p>Impact Factor: 2.952 Quartile: 2 Citations: 26 DOI: https://doi.org/10.1016/j.procbio.2019.04.020</p>	2019
<p>Conjoint effect of microwave irradiation and metal nanoparticles on biogas augmentation from anaerobic digestion of green algae</p> <p><i>Syed Asad Ali Zaidi Feng RuiZhe Adil Malik Sohaib Zia Khan Asad J. Bhutta Yue Shi Kashif Mushtaq</i> <i>International Journal of Hydrogen Energy</i> , Volume 44, Issue 29, Pages 14661-14670</p> <p>Impact Factor: 4.939 Quartile: 2 Citations: 47 DOI: 10.1016/j.ijhydene.2019.02.245</p>	2019
<p>Conceptual Design of Composite Sandwich Structure Submarine Radome</p> <p><i>Lili Tong Asad A. Zaidi Javid Iqbal Waqas Ahmed Fazal e Ahad Hafiz Muhammad Waqas Dongyan Shi Muhammad Imran Sohaib Zia Khan</i> <i>Materials</i> , Vol. 12 No.12, Paper No. 1966</p> <p>Impact Factor: 3.057 Quartile: 2 Citations: 21 DOI: https://doi.org/10.3390/ma12121966</p>	2019
<p>Effect of vacuum heat treatment process on toughness and wear of H13 tool steel material</p> <p><i>Sajid H. Siyal Asad A. Zaidi Muhammad Samiuddin Subhan A. Jogi Imran Samo Asif Shah</i> <i>European Journal of Advances in Engineering and Technology</i>, Volume 6(5), Pages 42-49</p> <p>Impact Factor: - DOI: v</p>	2019
<p>Processing Efficiency, Simulation and Enzyme Activities Analysis of an Air-Lift Multilevel Circulation Membrane Bioreactor (AMCMBR) on Marine Domestic Sewage Treatment</p> <p><i>Yuhang Cai Xin Li Asad A. Zaidi Yue Shi Kun Zhang Peiqi Sun Zheng Lu</i> <i>Periodica Polytechnica Chemical Engineering</i> , Vol.63, No.3, Pages 448-458</p> <p>Impact Factor: 1.257 Quartile: 3 Citations: 16 DOI: https://doi.org/10.3311/PPch.13389</p>	2019
<p>Combining Microwave Pretreatment with Iron Oxide Nanoparticles Enhanced Biogas and Hydrogen Yield from Green Algae</p> <p><i>Syed Asad Ali Zaidi Ruizhe Feng Adil Malik Sohaib Zia Khan Yue Shi Asad Javed Ahmer H. Shah</i> <i>Processes</i> , Vol.7, Issue 1, Article No. 24</p> <p>Impact Factor: 2.753 Quartile: 2 Citations: 75 DOI: https://doi.org/10.3390/pr7010024</p>	2019

Design study of community-scale reverse osmosis (RO) based solar powered desalination system for remote locations in Pakistan <i>Danial Laiq Abdul Aleem Asad A. Zaidi</i> <i>European Journal of Advances in Engineering and Technology</i> , Volume 5, Issue 9, Pages 730-739 Impact Factor: - DOI: N/A	2018
Nanoparticles augmentation on biogas yield from microalgal biomass anaerobic digestion <i>Asad A. Zaidi Feng RuiZhe Yue Shi Sohaib Z. Khan Kashif Mushtaq</i> <i>International Journal of Hydrogen Energy</i> , Volume 43, Issue 31, Pages 14202-14213 Impact Factor: 4.084 Quartile: 2 Citations: 123 DOI: 10.1016/j.ijhydene.2018.05.132	2018
An Experimental and Comparative study about the engine emissions of conventional diesel engine and dual fuel engine. <i>Ghazanfer Mehdi Asad A. Zaidi M. Mustafa Azeem Salman Abdu</i> <i>Sukkur IBA Journal of Emerging Technologies (SJET)</i> , Volume 1, Issue 1, Pages 81-87 Impact Factor: 0 DOI: N/A	2018
Optimisation of Microwave Pretreatment for Biogas Enhancement through Anaerobic Digestion of Microalgal Biomass. <i>RuiZhe Feng Kun Zhang Yue Shi Asad A. Zaidi</i> <i>Periodica Polytechnica Chemical Engineering</i> , Volume 63, Issue 1, Page 65-72 Impact Factor: 1.382 Quartile: 3 Citations: 49 DOI: 10.3311/PPch.12334	2018
Performance Enhancement of Centrifugal Compressor with Addition of Splitter Blade Close to Pressure Surface <i>Adil Malik Qun Zheng Asad A. Zaidi Hamza Fawzy</i> <i>Journal of Applied Fluid Mechanics</i> , Volume 11, Issue 4, Pages 919-928 Impact Factor: 0.914 Quartile: 4 DOI: 10.18869/acadpub.jafm.73.247.28658	2018
Progress of Microalgal Biodiesel Research in Pakistan <i>Asad A. Zaidi Adil Malik Kashif Mushtaq Feng RuiZhe Yue Shi</i> <i>HSOA Journal of Plant Science: Current Research</i> , Volume 2, Issue 1, Article Number 100004 Impact Factor: - DOI: 10.24966/PSCR-3743/100004	2018
Design and Performance Analysis of a Solar Powered Hybrid Rickshaw for Commercial Use in Pakistan <i>N. Saleh Kashif Mushtaq Asad A. Zaidi Serkan Abbasoglu Syed Faiz Ahmed</i> <i>Journal of Environmental Science and Technology</i> , Volume 9, Issue 6, Pages 472-480 Impact Factor: N/A Citations: 17 DOI: 10.3923/jest.2016.472.480	2016
Design and Performance Analysis of Floating Dome Type Portable Biogas Plant for Domestic Use in Pakistan-manufacturing Cost Optimization <i>Syed Faiz Ahmed Kashif Mushtaq Asad A. Zaidi</i> <i>Biotechnology</i> , Volume 15, Issue 5, Pages 112-118 Impact Factor: - Citations: 14 DOI: 10.3923/biotech.2016.112.118	2016
Design and performance analysis of floating dome type portable biogas plant for domestic use in Pakistan <i>Kashif Mushtaq Asad A. Zaidi Syed Jawid Askari</i> <i>Sustainable Energy Technologies and Assessments</i> , Volume 14, Pages 21-25 Impact Factor: 0 Citations: 40 DOI: 10.1016/j.seta.2016.01.001	2016

Conference Proceedings

STUDENT LEARNING TIME (SLT) ANALYSIS FOR BALANCING LOAD IN ENGINEERING EDUCATION DURING ONLINE CLASSES IN COVID-19 ERA	2020
---	------

<p><i>Sohaib Z. Khan Asad A. Zaidi Habibah Norehan Haron</i> <i>International Conference on Studies in Engineering, Science, and Technology (ICSEST)</i>, res.country(224,)</p> <p>Citations: N/A DOI: N/A</p>	
<p>OPEN-ENDED LAB ASSESSMENT OF PSYCHOMOTOR LEARNING IN OUTCOME BASED EDUCATION IMPLEMENTED AT AN ENGINEERING COLLEGE IN PAKISTAN</p> <p><i>Sohaib Z. Khan Asad A. Zaidi Habibah Norehan Haron Talish Mahmood</i> <i>International Conference on Studies in Engineering, Science, and Technology (ICSEST)</i>, res.country(224,)</p> <p>Citations: N/A DOI: N/A</p>	2020
<p>Combined MgO nanoparticle and microwave pre-treatment on biogas increase from Enteromorpha during anaerobic digestion</p> <p><i>Yue Shi Kaiguo Huang Ruizhe Feng Renjie Wang Guobing Liu Asad A. Zaidi Kun Zhang</i> <i>2nd International Conference on Air Pollution and Environmental Engineering 15-16 December 2019, Xi'an, China</i>, res.country(48,)</p> <p>Citations: N/A DOI: 10.1088/1755-1315/450/1/012025</p>	2019
<p>Optimization of nickel nanoparticles concentration for biogas enhancement from green algae anaerobic digestion</p> <p><i>Asad A. Zaidi Sohaib Z.Khan Yue Shi</i> <i>IE 2019: Sustainable & Integrated Engineering International Conference</i>, res.country(157,)</p> <p>Citations: N/A DOI: https://doi.org/10.1016/j.matpr.2020.04.762</p>	2019
<p>Numerically simulated performance assessment for integration of PEM fuel cell stack into an automobile</p> <p><i>Nabeel Ahsan Kashif Mushtaq Asad A. Zaidi</i> <i>3rd Doctoral Congress Engineering (DCE19)</i>, res.country(183,)</p> <p>Citations: N/A DOI: N/A</p>	2019
<p>Impact of flow-fields on the performance of vanadium redox flow battery</p> <p><i>Kashif Mushtaq Asad A. Zaidi Adelio Mendes</i> <i>3rd Doctoral Congress Engineering (DCE19)</i>, res.country(183,)</p> <p>Citations: N/A DOI: N/A</p>	2019
<p>Design and Fabrication of Automatic Single Axis Solar Tracker for Solar Panel</p> <p><i>Ghazanar Mehdi Naveed Ali Shafquat Hussain Asad A. Zaidi Ahmer Hussain Shah M. Mustafa Azeem</i> <i>2nd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET)</i>, res.country(177,)</p> <p>Citations: N/A DOI: 10.1109/ICOMET.2019.8673496</p>	2019
<p>Design and aerodynamic analysis of 50 kw combine cooling, heating and power (CCHP) micro-gas turbine plant and its vaneless centrifugal compressor</p> <p><i>Adil Malik Qun Zheng Shafiq ur Rehman Qureshi Asad A. Zaidi Salman Abdu Ahmad</i> <i>IEEE 5th International Conference on Engineering Technologies and Applied Sciences (ICETAS)</i>, res.country(217,)</p> <p>Citations: N/A DOI: 10.1109/ICETAS.2018.8629106</p>	2018
<p>Comparative and numerical evaluation of methanol blends in CI diesel engine</p> <p><i>Asad A. Zaidi Salman Abdu Ahmed Song Zhou Yongming Feng Yuanqing Zhu Adil Malik</i> <i>2018 IEEE 5th International Conference on Engineering Technologies & Applied Sciences</i>, res.country(217,)</p> <p>Citations: N/A DOI: 10.1109/ICETAS.2018.8629171</p>	2018
<p>The Electrochemical Society, find out more Current Density Improvement for Vanadium Redox Flow Cell Having Interdigitated Flow-Field</p> <p><i>Kashif Mushtaq Ricardo Monteiro Asad A. Zaidi Nuno Delgado Adelio Mendes</i> <i>AiMES 2018 Meeting</i>, res.country(156,)</p> <p>Citations: N/A DOI: https://doi.org/10.1149/MA2018-02/1/28</p>	2018

Biogas production via microalgal biomass anaerobic fermentation-Experimental and modelling approach (Effect of Metal Nanoparticles)	2018
<i>Asad A. Zaidi Shi Yue Sohaib Zia Khan Adil Malik Kashif Mushtaq</i> <i>17th International Conference on Sustainable Energy Technologies – SET 2018, res.country(48,)</i> Citations: N/A DOI: N/A	
Performance optimization of centrifugal compressor through double splitter impeller	2018
<i>Adil Malik Qun Zheng Shafiq-ur-Rehman Qureshi Guo-qiang Yue Syed Asad Ali Zaidi</i> <i>Third Chinese International Turbomachinery Conference (CITC-2018) , res.country(48,)</i> Citations: N/A DOI: N/A	
Development of natural fiber reinforced polymer composite as construction material for thermal insulation application	2017
<i>Kashif Mushtaq Asad A. Zaidi Muhammad Asif Kashif Mushtaq Asad A. Zaidi Muhammad Asif</i> <i>2nd Doctoral Congress in Engineering, res.country(183,)</i> Citations: N/A DOI: N/A	
Designing and fabrication of a portable water purification system for remote regions and disaster affected areas	2017
<i>Kashif Mushtaq Asad A. Zaidi Muhammad Asif</i> <i>2nd Doctoral Congress in Engineering, res.country(183,)</i> Citations: N/A DOI: N/A	
Financial aspect for commercial production of portable biogas plant in Pakistan	2017
<i>Kashif Mushtaq Asad A. Zaidi Syed Jawid Askari</i> <i>2nd Doctoral Congress in Engineering, res.country(183,)</i> Citations: N/A DOI: N/A	

Book Chapters

Historical overview of geothermal energy	2022
<i>Muhammad Azhar Syed Asad Ali Zaidi Muhammad Nihal Naseer Younes Noorollahi Muhammad Uzair</i> In: <i>Utilization of Thermal Potential of Abandoned Wells: Fundamentals, Applications and Research</i> , 1st Edition, Chapter 1, Pages 3-10 Citations: 4 DOI: 10.1016/B978-0-323-90616-6.00001-4	
Capacitors: A Deliberate Insight Into State of Art and Future Prospects	2022
<i>Yasmin Abdul Wahab Muhammad Nihal Naseer Hamza Abbasi Mobin Siddiqi Talha Umair Syed Asad Ali Zaidi</i> In: <i>Book on Encyclopedia of Energy Storage</i> , 1st Edition, Volume 4, Pages 314-325 Citations: N/A DOI: https://doi.org/10.1016/B978-0-12-819723-3.00026-3	
Energy Analysis of Methanol Synthesis via Reverse Water-Gas Shift Reactor	2021
<i>Asad A. Zaidi Muhammad Nihal Naseer Tahir Abdul Hussain Ratlamwala</i> In: <i>Book on Methanol - Energy, Environment, and Sustainability</i> , Pages 85-100 Citations: 2 DOI: https://doi.org/10.1007/978-981-16-1224-4_4	
Super Capacitors in Various Dimensionalities: Applications and Recent Advancements	2020
<i>Yasmin Abdul Wahab Muhammad Nihal Naseer Asad A. Zaidi Talha Umair Hamdullah Khan Muhammad Mobin Siddiq Muhammad Sabir Javed</i> In: <i>Book on Reference Module in Earth Systems and Environmental Sciences</i> , Pages 1-10 Citations: 17 DOI: https://doi.org/10.1016/B978-0-12-819723-3.00020-2	

Editorial Activities

Reviewed Papers for Journals Impact Factor: 1.74	2021
Reviewed Papers for Journals Impact Factor: N/A	2021
Reviewed Papers for Journals Impact Factor: 1.45	2021
Reviewed Papers for Journals Impact Factor: 1.776	2021
Reviewed Papers for Journals Impact Factor: N/A	2021
Reviewed Papers for Journals Impact Factor: 6.082	2021
Reviewed Papers for Journals Impact Factor: 2.213	2021
Reviewed Papers for Journals Impact Factor: 1.508	2021
Edited Journal Issue / Proceeding / Book Impact Factor: N/A	2020