

Zeshan

Professor

Institute of Environmental Sciences & Engineering

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About

Dr. Zeshan is working as Professor in the Institute of Environmental Sciences & Engineering. Dr. Zeshan has a PhD in Environmental Engineering and Management. Dr. Zeshan has published 68 research articles & conference papers having a citation count of 1913, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Environmental Engineering and Management Asian Institute of Technology , Thailand	2007 - 2012
MPhil in Soil and Environmental Sciences University of Agriculture Faisalabad , Pakistan	2005 - 2007
B.Sc (Hon) in Soil Science University of Agriculture Faisalabad , Pakistan	2001 - 2005

Experience

Professor Institute of Environmental Sciences & Engineering	2024- Present
Associate Professor Institute of Environmental Sciences & Engineering	2020 - 2020
Assistant Professor Institute of Environmental Sciences & Engineering	2016 - 2020
Assistant Professor Institute of Environmental Sciences & Engineering	2015 - 2016
Professor Institute of Environmental Sciences and Engineering (IESE), SCEE, NUST , IESE, NUST, Sector H-12, Islamabad	2024 - 2025
Associate Professor Institute of Environmental Sciences and Engineering (IESE), SCEE, NUST , IESE, NUST, Sector H-12, Islamabad	2020 - 2024
Assistant Professor Institute of Environmental Sciences and Engineering (IESE), SCEE, NUST , IESE, NUST, Sector H-12, Islamabad	2015 - 2020
Assistant Professor Department of Environmental Sciences (DES), Quaid-i-Azam University, Islamabad , Department of Environmental Sciences, Quaid-i-Azam University, Islamabad.	2013 - 2015

Awards

Best Young Scientist Best Young Scientist Oral Presentation Award, awarded in Challenges in Environmental Science & Engineering (CESE 2013) Conference, 29 October-2 November, 2013, Daegu,	2013
Silver Medal Silver Medal awarded by University of Agriculture, Faisalabad for 2nd highest percentage in BSc. (Hons.) session 2001-2005	2005

Professional Memberships

NIL

Research Projects

National Projects

Growing microalgal biomass as aquaculture feed in a scalable novel raceway pond using Vinasse from ethanol based industry

Funding Agency: NUST
Amount: PKR 1,000,000.00
Status: Approved_inprocess

Development of Biogas Production System for Waste Sludge

2017

Funding Agency: HEC
Amount: PKR 5,366,588.00
Status: Completed

Enhancing Biogas Production from Sewage Sludge and Ligno-Cellulosic Waste through Nanoparticles

2017

Assisted Chemical Pretreatment

Funding Agency: HEC
Amount: PKR 10,460,000.00
Status: Completed

International Projects

Circular Economy Approaches to Sustainable Settlement and Municipal Solid Waste Management in

2025

Murree

Funding Agency: International Centre for Integrated Mountain Development
Amount: PKR 5,670,000.00
Status: Approved_inprocess

Research Articles

Quorum sensing enhances microbial resistance to substrate toxicity during anaerobic caproate production

2025

Jihua Zhao Hongzhi Ma Fan Su Yichan Liu Chengxuanyuan Liu Yong Liang Shuang Wu Juncheng Song Dawei Liu Xingzhao Chen Xiaobin Yang Qunhui Wang Zeshan Ying Wang
Chemical Engineering Journal, Volume: 520, Article Number:166049

Impact Factor: 13.2 | Quartile: 1
DOI: <https://doi.org/10.1016/j.cej.2025.166049>

Anode substrate tailoring in fed-batch photosynthetic microbial desalination cell for industrial and domestic wastewater treatment

2025

Syeda Safina Ali Waheed Miran Zia Ullah Zeshan
International Journal of Environmental Science and Technology, Pages:16

Impact Factor: 3.4 | Quartile: 1
DOI: <https://doi.org/10.1007/s13762-025-06619-7>

Effect of Effluent Recirculation on the Performance of an Anaerobic Baffled Reactor in Municipal Wastewater Treatment: A Modeling Approach

2025

Nadeem Ullah Zeshan Sarah Bader Alotaibi Mujahid Khan Aziz Ahmad
Sustainability, Volume:17, Issue:9, Article Number 3783

Impact Factor: 3.300 | Quartile: 2
DOI: 10.3390/su17093783

Socio-economic benefits and policy implications of generating sustainable energy from municipal solid waste in Pakistan

2024

Waqas Ahmad Muhammad Hassan Shah Fahad Bin Masud Muhammad Saad Amjad Fatin Samara Zeshan Mustafa Anwar Muhammad Zeeshan Rafique Tahir Nawaz
Energy and Climate Change, Volume 5, Article Number 100124

Impact Factor: 5.800 | Quartile: 2 | Citations: 8
DOI: <https://doi.org/10.1016/j.egycc.2023.100124>

Performance evaluation of sponge anaerobic baffled reactor for municipal wastewater treatment

2024

Nadeem Ullah Zeshan Owais Ahmad Sher Jamal Khan
Sustainability, Volume 16(21), Article Number 9398

Impact Factor: 3.300 | Quartile: 2
DOI: 22232454556

Effect of hydrothermal pretreatment on leachate fed <i>Scenedesmus</i> sp. biomass solubilization and biogas production <i>Sahar Saleem Zia Ullah Dr Naim Rashid Dr Zeshan</i> <i>Journal of Environmental Management</i> , Volume:365, Impact Factor: 8.0 Quartile: 1 Citations: 3 DOI: 10.1016/j.jenvman.2024.121515	2024
Effect of hydraulic retention time on wastewater treatment and microalgal growth at low light intensity <i>Ramsha Malik Sahar Saleem Muhammad Basharat Dr. Muhammad Faraz Bhatti Dr Zeshan</i> <i>Algal Research</i> , Volume:80, Article Number: 103545 Impact Factor: 4.6 Quartile: 1 Citations: 2 DOI: 10.1016/j.algal.2024.103545	2024
Hollow CoP/carbon as an efficient catalyst for the peroxymonosulfate activation derived from phytic acid assisted metal-organic framework <i>Muhammad Abdul Nasir Khan Prosper Kwame Klu Chengming Xiao Junwen Qi Tayyaba Noor Zeshan Kaleemullah Kalwar Jiansheng Li</i> <i>Chemosphere</i> , Volume 355, Article Number 141775 Impact Factor: 8.800 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.chemosphere.2024.141775	2024
Mycorrhizosphere bacteria inhibit greenhouse gas emissions from microplastics contaminated soil by regulating soil enzyme activities and microbial community structure <i>Zeeshan Khan Ghulam Haider Fazal Adnan Zeshan Muhammad Faraz Bhatti Tariq Shah Parvaiz Ahmad</i> <i>Journal of Environmental Management</i> , Volume 356, Article Number 120673 Impact Factor: 8.700 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1016/j.jenvman.2024.120673	2024
Effect of catholyte on performance of photosynthetic microbial fuel cell for wastewater treatment and energy recovery <i>Zeshan Zia Ullah</i> <i>Renewable Energy</i> , Volume 221, Article Number 119810 Impact Factor: 8.7 Quartile: 1 Citations: 12 DOI: 10.1016/j.renene.2023.119810	2024
Eco-friendly cultivation of microalgae using a horizontal twin layer system for treatment of real solid waste leachate <i>Sahar Saleem Zeshan Sheikh Rashid Iftikhar Mazhar Iqbal Zafar</i> <i>Journal of Environmental Management</i> , Volume 351, Article ID: 119847, Pages:14 Impact Factor: 8.7 Quartile: 1 Citations: 5 DOI: 10.1016/j.jenvman.2023.119847	2024
Performance comparison of a photosynthetic and mechanically aerated microbial fuel cell for wastewater treatment and bioenergy generation using different anolytes <i>Zia Ullah Waqas Qamar Zaman Zeshan Sheikh Muhammad Zeeshan Ali Khan Waheed Miran Jiansheng Li Muhammad Abdul Nasir Khan Shanza Shabbir</i> <i>Journal of Water Process Engineering</i> , Volume 56, Article Number 104358 Impact Factor: 7.0 Quartile: 1 Citations: 6 DOI: 10.1016/j.jwpe.2023.104358	2023
Hollow Fe0/graphitized carbon nanocubes derived from the metal-organic framework for enhanced activation of peroxymonosulfate <i>Zeshan Muhammad Abdul Nasir Khan Prosper Kwame Klu Chengming Xiao Ming Zhang Wuxiang Zhang Yue Yang Yujun Zhou Zhigao Zhu Junwen Qi Jiansheng Li</i> <i>Separation and Purification Technology</i> , Volume 320, Article Number 124101 Impact Factor: 8.6 Quartile: 1 Citations: 11 DOI: 10.1016/j.seppur.2023.124101	2023
Antibiotics induced changes in nitrogen metabolism and antioxidative enzymes in mung bean (<i>Vigna radiata</i>) <i>Marium Fiaz Iftikhar Ahmed Sumara Masood Ul Hassan Adnan Khan Niazi Muhammad Faheem Khokhar Zeshan Muhammad Ansar Farooq Muhammad Arshad</i> <i>Science of the Total Environment</i> , Volume 873, Article Number 162449 Impact Factor: 10.753 Quartile: 1 Citations: 16 DOI: http://dx.doi.org/10.1016/j.scitotenv.2023.162449	2023
Microalgal treatment of high-nutrient wastewater using twin layer cultivation system	2023

<p><i>Nabia Farrukh Sohail Zeshan Rashid Ittikhar Sahar Saleem</i> <i>Journal of Environmental Chemical Engineering</i>, Volume 11, Issue 2, Article Number 109248</p> <p>Impact Factor: 7.968 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.jece.2022.109248</p>	2023
<p>Functional annotation and comparative analysis of four Botrytis cinerea mitogenomes reported from Punjab, Pakistan</p> <p><i>Tehsin Fatma Haris Ahmed Khan Aqeel Ahmed Fazal Adnan Zeshan Nasar Um Minullah Muhammad Faraz Bhatti</i> <i>Saudi Journal of Biological Sciences</i>, Volume 30, Issue 4, Article Number 103605</p> <p>Impact Factor: 4.052 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1016/j.sjbs.2023.103605</p>	2023
<p>Municipal wastewater treatment with corrugated PVC carrier anaerobic baffled reactor</p> <p><i>Nadeem Ullah Zeshan Malik Badshah</i> <i>Water Science and Technology</i>, Volume 87, Issue 3, Pages 660-671</p> <p>Impact Factor: 2.7 Quartile: 2 Citations: 4 DOI: 10.2166/wst.2022.414</p>	2023
<p>Mussel shell based CaO nano-catalyst doped with praseodymium to enhance biodiesel production from castor oil</p> <p><i>Sana Gohar Khan Muhammad Hassan Mustafa Anwar Zeshan Uneeb Masood Khan Chao Zhao</i> <i>Fuel</i>, Volume 330, Article Number 125480</p> <p>Impact Factor: 8.035 Quartile: 1 Citations: 40 DOI: https://doi.org/10.1016/j.fuel.2022.125480</p>	2022
<p>Operation of microalgal horizontal twin layer system for treatment of real wastewater and production of lipids</p> <p><i>Sahar Saleem Zeshan Rashid Ittikhar Muhammad Arshad Muhammad Zeeshan Ali Khan Muhammad Hassan</i> <i>Journal of Water Process Engineering</i>, Volume 48, Article Number 102932</p> <p>Impact Factor: 7.340 Quartile: 1 Citations: 5 DOI: 10.1016/j.jwpe.2022.102932</p>	2022
<p>Proximate and elemental analysis of solid recovered fuel, its comparison with existing fossil fuels in terms of physical characteristics and economic benefits</p> <p><i>Waqas Ahmad Muhammad Hassan Zeshan Shah Fahad Bin Masud Saira Kamwal Ram Sarup Singh Mustafa Anwar Esmaeil Mehryar Chao Zhao</i> <i>Bioresource Technology Reports</i>, Volume 18, Article Number 101049</p> <p>Impact Factor: 0 Citations: 10 DOI: https://doi.org/10.1016/j.biteb.2022.101049</p>	2022
<p>Effect of low levels of oxytetracycline on anaerobic digestion of cattle manure</p> <p><i>Moniba Mushtaq Zeshan Muhammad Zeeshan Ali Khan Ismat Nawaz Muneeb Hassan</i> <i>Bioresource Technology</i>, Volume 349, Article Number 126894</p> <p>Impact Factor: 11.4 Quartile: 1 Citations: 17 DOI: 10.1016/j.biortech.2022.126894</p>	2022
<p>Biological carbon capture, growth kinetics and biomass composition of novel microalgal species</p> <p><i>Rabia Liaquat Tahreem Assad Khan Zeshan Asif Hussain Khoja Atia Bano</i> <i>Bioresource Technology Reports</i>, Volume 17, Article Number 100982</p> <p>Impact Factor: N/A Citations: 7 DOI: doi.org/10.1016/j.biteb.2022.100982</p>	2022
<p>Performance Evaluation of Integrated Anaerobic and Aerobic Reactors for Treatment of Real Textile Wastewater</p> <p><i>Muhammad Usman Saleem Sher Jamal Khan Hafiz Muhammad Aamir Shahzad Zeshan</i> <i>International Journal of Environmental Science and Technology</i>, Pages 1-12</p> <p>Impact Factor: 2.860 Quartile: 3 Citations: 9 DOI: https://doi.org/10.1007/s13762-021-03830-0</p>	2022
<p>Growth kinetics of microalgae cultivated in different dilutions of fresh leachate for sustainable nutrient recovery and carbon fixation</p> <p><i>Sahar Saleem Zeshan Rashid Ittikhar Mazhar Iqbal Zafar Nabia Farrukh Sohail</i> <i>Biochemical Engineering Journal</i>, Volume 178, Article Number 108299</p> <p>Impact Factor: 3.978 Quartile: 2 Citations: 18 DOI: 10.1016/j.bej.2021.108299</p>	2022

Production of bioethanol and biogas from Spirodela polyrhiza in a biorefinery concept and output energy analysis of the process <i>Qurrat ul Ain Rana Muhammad Adil Nawaz Khan Zeshan Sheikh Saleha Parveen Safia Ahmed Muhammad Irfan Aamer Ali Shah Asif Jamal Samiullah Khan Malik Badshah Rahul Gauttam</i> <i>Biomass Conversion and Biorefinery</i> , Pages 1-10 Impact Factor: 4.987 Quartile: 1 Citations: 6 DOI: 10.1007/s13399-021-02066-9	2021
Computational Assessment of Botrytis cinerea Lipase for Biofuel Production <i>Tehsin Fatma Zeeshan Zafar Sidra Fatima Rehan Zafar Paracha Fazal Adnan Zeshan Nasar Virk Muhammad Faraz Bhatti</i> <i>Catalysts</i> , Volume 11(11), Article Number 1319 Impact Factor: 4.146 Quartile: 2 Citations: 5 DOI: https://doi.org/10.3390/catal11111319	2021
Evaluating the performance of anaerobic moving bed bioreactor and upflow anaerobic hybrid reactor for treating textile desizing wastewater <i>Hafiz Muhammad Aamir Shahzad Prof. Dr. Sher Jamal Khan Zeshan Yousuf Jamal Zunaira Habib</i> <i>Biochemical Engineering Journal</i> , Volume 174, Article Number 108123 Impact Factor: 3.978 Quartile: 2 Citations: 26 DOI: 10.1016/j.bej.2021.108123	2021
Enhanced Methane Production from Anaerobic Co-digestion of wheat straw rice straw and sugarcane bagasse: A Kinetic Analysis <i>Sadia Meraj Rabia Liaquat Salman Raza Naqvi Zeshan Sheikh Atoofa Zainab Asif Hussain Khoja Dagmar Juchelkova Abdulaziz Atabani</i> <i>Applied Sciences</i> , Volume 11(13), Article Number 6069 Impact Factor: 2.838 Quartile: 2 Citations: 30 DOI: https://doi.org/10.3390/app11136069	2021
Enhancing biogas production through co-digestion and thermal pretreatment of wheat straw and sunflower meal <i>Asad Ayub Rajput Zeshan Muhammad Hassan</i> <i>Renewable Energy</i> , Volume 168, Pages 1-10 Impact Factor: 8.634 Quartile: 1 Citations: 39 DOI: https://doi.org/10.1016/j.renene.2020.11.149	2021
Enhancing methane production from dewatered waste activated sludge through alkaline and photocatalytic pretreatment <i>Ayesha Maryem Zeshan Malik Badshah Mariam Sabeeh Sher Jamal Khan</i> <i>Bioresource Technology</i> , Volume 325, Article Number 124677 Impact Factor: 11.889 Quartile: 1 Citations: 51 DOI: 10.1016/j.biortech.2021.124677	2021
Application of material flow analysis for the assessment of current municipal solid waste management in Karachi, Pakistan <i>Shiza Aslam Faizan Ali Amna Naseer Zeshan Sheikh</i> <i>Waste Management & Research</i> , Pages 1-10 Impact Factor: 3.549 Quartile: 2 Citations: 28 DOI: 10.1177/0734242X211000427	2021
A comprehensive study on upgradation of pyrolysis products through co-feeding of waste tire into rice straw under broad range of co-feed ratios in a bench-scale fixed bed reactor <i>Shoaib Raza Khan Muhammad Faheem Khokhar Zeshan Muhammad Zeeshan Ittikhar Ahmad</i> <i>Biomass Conversion and Biorefinery</i> , Pages 1-15 Impact Factor: 4.987 Quartile: 1 Citations: 18 DOI: doi.org/10.1007/s13399-021-01434-9	2021
Effect of Solvents on Extraction of Bioactive Substances from CITRULLUS COLOCYNTHIS and Their Antioxidant, Antimicrobial and Antiglycation Activities <i>Tahir Mehmood Kousain Kousar Hina Arshad Mudassir Iqbal Zeshan</i> <i>Pharmaceutical Chemistry Journal</i> , Volume 55(3), Pages 275-283 Impact Factor: 1.063 Quartile: 4 Citations: 2 DOI: 10.1007/s11094-021-02411-2	2021
Effect of alkaline and alkaline-photocatalytic pretreatment on characteristics and biogas production of rice straw	2020

<p><i>Zeshan Rabia Liaquat Mariam Sabeeh Ayesha Maryam</i> <i>Bioresource Technology</i> , Volume 309, Article Number 123449</p> <p>Impact Factor: 9.642 Quartile: 1 Citations: 59 DOI: 10.1016/j.biortech.2020.123449</p>	
<p>Effect of substrate type and concentration on the performance of a double chamber microbial fuel cell</p> <p><i>Zia Ullah Zeshan Sheikh</i> <i>Water Science and Technology</i> , Volume: 81, Issue: 7, Pages: 1336-1344</p> <p>Impact Factor: 1.915 Quartile: 3 Citations: 96 DOI: doi: 10.2166/wst.2019.387</p>	2020
<p>Performance evaluation of anaerobic moving bed bioreactor (An-MBBR) for pretreatment of desizing wastewater</p> <p><i>Hafiz Muhammad Aamir Shahzad Charel Baumann Sher Jamal Khan Harald Schönberger Frank-Andreas Weber Zeshan</i> <i>Desalination and Water Treatment</i> , Volume 181, Pages 123-130</p> <p>Impact Factor: 1.254 Quartile: 4 Citations: 10 DOI: 10.5004/dwt.2020.25106</p>	2020
<p>Influence of Pseudomonas japonica and organic amendments on the growth and metal tolerance of Celosia argentea L.</p> <p><i>Ameena Iqbal Muhammad Umair Mushtaq Aqib Hassan Ali Khan Zeshan Mazhar Iqbal Ismat Nawaz Sohail Yousaf</i> <i>Environmental Science and Pollution Research</i> , -</p> <p>Impact Factor: 3.056 Quartile: 2 Citations: 28 DOI: 10.1007/s11356-019-06181-z</p>	2019
<p>Effect of inoculum type and organic loading on biogas production of sunflower meal and wheat straw</p> <p><i>Zeshan Sheikh Asad Ayub Rajput</i> <i>Sustainable Environment Research</i> , Volume 29, Issue 4</p> <p>Impact Factor: 0 Citations: 53 DOI: 10.1186/s42834-019-0003-x</p>	2019
<p>Synergistic effect of alkaline pretreatment and magnetite nanoparticle application on biogas production from rice straw</p> <p><i>Muhammad Junaid Khalid Zeshan Adeel Waqas Ismat Nawaz</i> <i>Bioresource Technology</i> , Volume 275, Pages 288-296</p> <p>Impact Factor: 7.539 Quartile: 1 Citations: 97 DOI: 10.1016/j.biortech.2018.12.051</p>	2019
<p>Effect of thermal pretreatment on chemical composition, physical structure and biogas production kinetics of wheat straw</p> <p><i>Asad Ayub Rajput Zeshan Sheikh Chettiyappan Visvanathan</i> <i>Journal of Environmental Management</i> , NULL</p> <p>Impact Factor: 4.865 Quartile: 1 Citations: 213 DOI: 10.1016/j.jenvman.2018.05.011</p>	2018
<p>Combined application of biochar, compost, and bacterial consortia with Italian ryegrass enhanced phytoremediation of petroleum hydrocarbon contaminated soil</p> <p><i>Fida Hussain Imran Hussain Aqib Hassan Ali Khan Yousaf Shad Muhammad Mazhar Iqbal Gerhard Soja Thomas Gerhard Reichenauer Zeshan Sohail Yousaf</i> <i>Environmental and Experimental Botany</i> , NULL</p> <p>Impact Factor: 3.712 Quartile: 1 Citations: 165 DOI: https://doi.org/10.1016/j.envexpbot.2018.05.012</p>	2018
<p>Thermal management of conventional photovoltaic module using phase change materials?An experimental investigation</p> <p><i>Adeel Waqas Jie Ji Ali Bahadar Lijie Xu Zeshan Mawufemo Modjinou</i> <i>Energy Exploration & Exploitation</i> , Volume 37, Issue 5, Pages 1516-1540</p> <p>Impact Factor: 1.204 Quartile: 3 Citations: 23 DOI: 10.1177/0144598718795697</p>	2017
<p>Effect of Chelators and Substrates on Phytoremediation of Synthetic Leachate for Removal of Trace Elements</p> <p><i>Ammara Batool Zeshan Sheikh</i></p>	2017

Soil and Sediment Contamination , Volume: 26 Issue: 2 Pages: 220-233 Published: 2017

Impact Factor: 0.969 | Quartile: 4 | Citations: 4

DOI: 10.1080/15320383.2017.1274958

Photocatalytic degradation of textile dyes on Cu2O-CuO/TiO2 anatase powders

2016

Zeshan A. Ajmal I. Majeed R.N. Malik M. Iqbal M. Arif Nadeem I. Hussain S. Yousaf G. Mustafaa M.I. Zafar M. Amtiaz Nadeem

Journal of Environmental Chemical Engineering, Volume 4, Issue 2, Pages 2138-2146

Impact Factor: 0 | Citations: 129

DOI: 10.1016/j.jece.2016.03.041

High-solids anaerobic co-digestion of food waste and rice husk at different organic loading rates

2015

Maliha Jabeen Zeshan Sheikh Sohail Yousaf Muhammad Rizwan Haider Riffat Naseem Malik

International Biodeterioration & Biodegradation , Volume 102, Pages 149-153

Impact Factor: 2.429 | Quartile: 2 | Citations: 94

DOI: 10.1016/j.ibiod.2015.03.023

Effect of mixing ratio of food waste and rice husk co-digestion and substrate to inoculum ratio on biogas production

2015

Muhammad Rizwan Haider Chettiyappan Visvanathan Zeshan Sohail Yousaf Riffat Naseem Malik

Bioresource Technology , Volume 190, Pages 451-457

Impact Factor: 4.917 | Quartile: 1 | Citations: 168

DOI: 10.1016/j.biortech.2015.02.105

Evaluation of anaerobic digestate for greenhouse gas emissions at various stages of its management

2014

Chettiyappan Visvanathan Zeshan Sheikh

International Biodeterioration & Biodegradation , Volume 95, Pages 167-175

Impact Factor: 2.131 | Quartile: 2 | Citations: 54

DOI: 10.1016/j.ibiod.2014.06.020

Effect of C/N ratio and ammonia-N accumulation in a pilot-scale thermophilic dry anaerobic digester

2012

Obuli. P. Karthikeyan Chettiyappan Visvanathan Zeshan

Bioresource Technology , Volume 113, Pages 294-302, Special Issue SI

Impact Factor: 4.750 | Quartile: 1 | Citations: 200

DOI: 10.1016/j.biortech.2012.02.028

Conference Proceedings

Key Note Speaker: Combating Climate Change through Technological Interventions in the Waste Sector

2024

Zeshan

2nd International Conference on Climate Induced Natural Disasters and Mitigation (ICCINDM) , res.country(177,)

Citations: N/A

DOI: Nil

Enhancing Fecal Sludge Biodegradation through Anaerobic Co-Digestion: Investigating the Impact of Co-Substrate

2024

Nida Maqbool Sher Jamal Khan Kamran Manzoor Rabia Liaquat Zeshan

16th International Conference on Sustainable Energy & Environmental Protection SEEP 2024 , res.country(12,)

Citations: N/A

DOI: Accepted

Assessment of Algae-assisted Microbial fuel Cell Performance for Wastewater Treatment and Energy Recovery Using Two Different Wastewaters as Catholyte

2022

Zia Ullah Zeshan

14th International Conference on Sustainable Energy & Environmental Protection, (SEEP2022), res.country(231,)

Citations: N/A

DOI: Nil

Assessment of the Performance of Microbial Fuel Cell for Wastewater Treatment and Energy Recovery

2022

Zia Ullah Zeshan

2nd International Conference on Water, Energy, and Environment for Sustainability, (IC-WEES-2022), res.country(177,)

Citations: N/A

DOI: Nil

Wastewater Treatment and Simultaneous Production of Biogas and Electricity Generation by Algae-assisted Microbial Fuel Cell <i>Shanza Shabbir Zeshan</i> <i>2nd International Conference on Water, Energy and Environment for Sustainability, (ICWEES2022), res.country(177,)</i> Citations: N/A DOI: Nil	2022
Operation of Inclined Porous Substrate Bioreactor for Wastewater Treatment Using Microalgae and Sustainable Biodiesel-Lipid Production <i>Sahar Saleem Zeshan Rashid Iftikhar Muhammad Arshad Muhammad Hassan</i> <i>13th International Conference on Sustainable Energy & Environmental Protection, University of Natural Resources and Life Science, res.country(12,)</i> Citations: N/A DOI: Nil	2021
Analysis of Physico-chemical Characteristics of Rice Straw Pretreated with Sodium Hydroxide <i>Muhammad Junaid Khalid Zeshan</i> <i>2nd International Conference on Energy Systems for Sustainable Development, (ESSD 2018), res.country(177,)</i> Citations: N/A DOI: Nil	2018
Hand Driven Energy Efficient Reactor for Biogas Production From Organic Solid Waste <i>Shiza Aslam Rimsha Zafar Nauman Akber Zeshan Sheikh</i> <i>First International Conference on Emerging Trends in Earth and Environmental Sciences, res.country(177,)</i> Citations: N/A DOI: Nil	2017
Effect of substrates on phytoremediation of trace metals from solid waste leachate <i>Ammara Batool Zeshan Muhammad Arshad Sher Jamal Khan</i> <i>International Conference on Bio Approaches for Environment and sustainability, NUST, Islamabad, res.country(177,)</i> Citations: N/A DOI: Nil	2017
Start-Up of Thermophilic Dry Anaerobic Digestion of Organic Fraction of Municipal Solid Waste <i>Zeshan C. Visvanathan</i> <i>2nd Conference on Emerging Materials and Processes (CEMP-2015), , SCME, NUST, Islamabad, res.country(177,)</i> Citations: N/A DOI: Nil	2015
Continuous high solids co-digestion of food waste and rice husk under mesophilic conditions at pilot scale <i>Maliha Jabeen Zeshan Sohail Yousaf</i> <i>7th Annual Conference on the Challenges in Environmental Science & Engineering (CESE 2014), Johor Bahru, res.country(157,)</i> Citations: N/A DOI: Nil	2014
Anaerobic Co-Digestion of Food Waste and Rice Husk: Effect of Co-Substrate Mixing Ratios and Substrate to Inoculum Ratio on Biogas Production <i>Zeshan Sohail Yousaf Muhammad Rizwan Haider</i> <i>7th Annual Conference on the Challenges in Environmental Science & Engineering (CESE 2014), Johor Bahru, res.country(157,)</i> Citations: N/A DOI: Nil	2014
Effect of organic loading rate on the performance of a pilot-scale thermophilic dry anaerobic digester under high recirculation rate <i>Zeshan C. Visvanathan</i> <i>6th Annual Conference on the Challenges in Environmental Science & Engineering (CESE 2013), Daegu , res.country(259,)</i> Citations: N/A DOI: NA.	2013
Digestate management from perspectives of GHG emissions <i>Zeshan C. Visvanathan</i> <i>6th Annual Conference on the Challenges in Environmental Science & Engineering (CESE 2013) , res.country(259,)</i> Citations: N/A DOI: Nil	2013

Dry anaerobic digestion of municipal solid waste: Potentials and problems 2012

Zeshan C. Visvanathan

2nd International Conference on Anaerobic Digestion for Waste and Wastewater Treatment, Bangkok, res.country(217,)

Citations: N/A

DOI: Nil

Ammonia inhibition in dry thermophilic anaerobic digestion of organic fraction of municipal solid waste 2011

Zeshan C. Visvanathan

Presented in 4th International Conference on Challenges in Environmental Science and Engineering (CESE 2011), Tainan , res.country(227,)

Citations: N/A

DOI: NA.

CSR activities in Thailand 2010

Zeshan Sheelva Shakya

Young environmental leaders summit 2010 , res.country(113,)

Citations: N/A

DOI: Nil

Book Chapters

The Fermentation Process for Biomass Conversion to Hydrogen 2024

Sadia Fida Zia Ullah Zeshan

In: *Hydrogen Production from Renewable Resources and Wastes*, 1st Edition, Chapter 11, Pages:38

Citations: N/A

DOI: 10.1201/9781003382270-14

Current Approaches for the Assessment of In Situ Remediation of Xenobiotics 2017

Dr Zeshan Waseem Hassan Safdar Bashir Nabeel Khan Niazi Irshad Bibi Niaz Ahmed

In: *Xenobiotics in the Soil Environment*, Chapter: 13, Pages: 171-196

Citations: N/A

DOI: 10.1007/978-3-319-47744-2_13

Editorial Activities

Journal of Environmental Management 2024

Reviewed Papers for Journals

Impact Factor: 8.0

Environmental science. Water research & technology 2024

Reviewed Papers for Journals

Impact Factor: 3.5

Journal of Environmental Management 2024

Reviewed Papers for Journals

Impact Factor: 8.0

Renewable Energy 2023

Reviewed Papers for Journals

Impact Factor: 9.0

Journal of Water Process Engineering 2023

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