

Waheed Miran

Associate Professor
School of Chemical & Materials Engineering

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About

Dr. Waheed Miran is working as Associate Professor in the School of Chemical & Materials Engineering. Dr. Waheed Miran has a PhD in Environmental and Energy Engineering. Dr. Waheed Miran has published 75 research articles & conference papers having a citation count of 3073, carried out 3 projects and filed 2 intellectual property.

Qualifications

PhD in Environmental and Energy Engineering Kyungpook National University , South Korea	2014 - 2018
MSc in Environmental and Energy Engineering Kyungpook National University , South Korea	2012 - 2014
Post Grad Diploma in Petroleum and Gas University of the Punjab , Pakistan	2004 - 2009

Experience

Associate Professor School of Chemical & Materials Engineering	2025- Present
Associate Professor School of Chemical & Materials Engineering	2024 - 2024
Associate Professor School of Chemical & Materials Engineering	2023 - 2024
Assistant Professor School of Chemical & Materials Engineering	2021 - 2023
JSPS Postdoctoral Fellowship National Institute for Materials Science , Tsukuba, Japan	2019 - 2021
Postdoctoral Researcher National Institute for Materials Science , Tsukuba, Japan	2018 - 2019
Process Support Manager Lotte Chemicals , Port Qasim, Karachi	2009 - 2012

Research Projects

National Projects	
4th ASEAN-Pakistan Conference on Materials Science (APCoMS 2025) Funding Agency: ASEAN Pakistan Collaboration Fund Amount: PKR 24,780,568.00 Status: Approved_inprocess	2025
Two-Dimensional Transition Metal-Boride (MBenes) for Electrochemical Sensing of Hepcidin: A Biomarker of Iron-Related Disorders—An Experimental and DFT Study Funding Agency: Pakistan Academy of Sciences Amount: PKR 4,000,000.00 Status: Approved_inprocess	2025

International Projects

Industry Projects

National Projects

Testing Thermal Efficiency of Gas Storage Water Geyser	2024
Client: Hotwell industries	
Amount: PKR 50,000.00	
Status: Completed	

International Projects

Research Articles

Enhanced drug-loading potential through silver and strontium doping in iron oxide nanoparticles for drug delivery applications	2025
Syeda Sana Ali Naqvi Waheed Miran Ittikhar Hussain Gul Zakir Hussain Aneela Javed Usman Liaquat	
Journal of Materials Research , Volume:40, Issue:13, Page:2016-2025	
Impact Factor: 2.900 Quartile: 3	
DOI: https://doi.org/10.1557/s43578-025-01632-5	
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	
Assessment of textile sludge pyrolysis behaviour through advance predictive models for bioenergy production	2025
Arslan Khan Asif Hussain Salman Raza Naqvi Waheed Miran Imtiaz Ali	
Case Studies in Thermal Engineering , Volume 73, Article Number 106698	
Impact Factor: 6.400 Quartile: 1	
DOI: https://doi.org/10.1016/j.csite.2025.106698	
Investigating the influence of tank material and residual chlorine on the proliferation of bacterial biofilm growth in the drinking water storage systems	2025
Aiza Javed Hira Amjad Imran Hashmi Waheed Miran	
Journal of Water Sanitation and Hygiene for Development , Volume:15, Issue:4, Pages 305-321	
Impact Factor: 1.4 Quartile: 4 Citations: 1	
DOI: https://doi.org/10.2166/washdev.2025.285	
Impact of polypyrrole/MXene modified anode on bioelectricity generation in microbial fuel cells	2025
Fareeha Batool Waheed Miran Marghoob Ahmed Syed Rizwan Hussain Osama Naeem Hamza Zaheer Usman Liaquat	
Journal of Applied Electrochemistry , Pages 1-11	
Impact Factor: 2.400 Quartile: 3	
DOI: 10.1007/s10800-025-02275-4	
High-performance cauliflower-like Er2O3/NiO nanocomposite derived from Er-Ni-MOF for energy conversion and storage applications	2025
Sonadia Waheed Miran Zoya Iqbal Maryam Shah Ghulam Mustafa Muhammad Umair Mushtaq Anwar Ul-Hamid d Fahad Azad	
Journal of Energy Storage , Volume:108, Article Number: 115222	
Impact Factor: 8.9 Quartile: 1 Citations: 5	
DOI: https://doi.org/10.1016/j.est.2024.115222	
Cysteine-Grafted Cu MOF/ZnO/PANI Nanocomposite for Nonenzymatic Electrochemical Sensing of Dopamine	2024
Mariam Basharat Zakir Hussain Dooa Arif Waheed Miran	
ACS Omega , Volume:9, Issue:50, Pages 49545-49556	
Impact Factor: 3.700 Quartile: 2 Citations: 3	
DOI: https://doi.org/10.1021/acsomega.4c07452	
Two-dimensional MXene and molybdenum disulphide for the removal of hexavalent chromium from water: A comparative study	2024
Asma Maqsood Abbasi Waqas Qamar Zaman Hassan Anwer Fahad Azad Xizi Long Waheed Miran Musharib Khan	
Desalination and Water Treatment , Volume 320, Article Number 100693	

Impact Factor: 1.000 Quartile: 4 Citations: 3 DOI: doi.org/10.1016/j.dwt.2024.100693	
Tailored Flower-Like Ni-Fe-MOF-Derived oxide Composites: Highly active and durable electrocatalysts for overall water splitting <i>Zoya Iqbal Sonadia Waheed Miran Anwar Ul-Hamid Manzar Sohail Fahad Azad</i> <i>Fuel</i> , Volume:372, Article Number:132112 Impact Factor: 6.7 Quartile: 1 Citations: 10 DOI: 10.1016/j.fuel.2024.132112	2024
Mitigation of uranium toxicity in rice by <i>Sphingopyxis</i> sp. YF1: Evidence from growth, ultrastructure, subcellular distribution, and physiological characteristics <i>Jun Liu Xinting Fan Juan Ni Meihan Cai Danping Cai Yuanyuan Jiang Aili Mo Waheed Miran Tangjian Peng Xizi Long Fei Yang</i> <i>Plant Physiology and Biochemistry</i> , Volume 214, Article Number 108958 Impact Factor: 6.100 Quartile: 1 Citations: 2 DOI: 10.1016/j.plaphy.2024.108958	2024
An electrochemical sensor based on copper oxide nanoparticles loaded on a mesoporous MCM-41 for non-enzymatic detection of glucose <i>Zohaa Dooa Arif Muneeb Hassan Muhammad Abdullah Waheed Miran Muhammad Ahsan Nasir Sadaf Batool Muhammad Aslam Baig Usman Liaqat</i> <i>Ceramics International</i> , Volume: 50, Issue: 7, Part B, Pages: 12614-12620 Impact Factor: 5.2 Quartile: 1 Citations: 19 DOI: 10.1016/j.ceramint.2024.01.171	2024
Green synthesized silver nanoparticles using <i>Rhazya stricta</i> extract for delivery of HDAC inhibitor panobinostat in MDA- MB-231 breast cancer cell line <i>Tayyaba Nawaz Adeeb Shehzad Waheed Miran Aroosa Younis Nadeem Tooba Nawaz</i> <i>Nanomedicine Journal</i> , Volume 10(2), Pages 187-195 Impact Factor: 1.400 Quartile: 4 Citations: 2 DOI: 10.22038/NMJ.2024.75733.1839	2024
Enhanced Electrocatalytic Performance of Erbium-Incorporated Nickel-Based Metal–Organic Frameworks for Water Splitting <i>Sonadia Zoya Iqbal Waheed Miran Anwar-Ul-Hamid Khurram Shehzad Ayub Fahad Azad</i> <i>Energy Fuels</i> , Vol:38, Issue: 6, Pages:5397-5406 Impact Factor: 5.3 Quartile: 1 Citations: 12 DOI: 10.1021/acs.energyfuels.3c04609	2024
Whitlockite -A study on the effect of reaction parameters on morphology in one-solvent system. <i>Anum Ayub Usman Liaqat Zakir Hussain Waheed Miran</i> <i>Materials Chemistry and Physics</i> , Volume 314, Article Number: 128932 Impact Factor: 4.6 Quartile: 2 Citations: 1 DOI: 10.1016/j.matchemphys.2024.128932	2024
Electrochemical Characterization of Two Gut Microbial Strains Cooperatively Promoting Multiple Sclerosis Pathogenesis <i>Divya Naradasu Waheed Miran Akihiro Okamoto</i> <i>Microorganisms</i> , Volume 12, Issue 2, Article Number 257 Impact Factor: 4.5 Quartile: 2 Citations: 1 DOI: 10.3390/microorganisms12020257	2024
Optimized electrocatalytic degradation of ciprofloxacin using Co3O4 coated stainless steel electrodes <i>Muhammad Usman Saleem Muhammad Jawad Fahad Azad Muhammad Asif Nawaz Waqas Qamar Zaman Waheed Miran</i> <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , Volume 681, Article Number 132738 Impact Factor: 5.2 Quartile: 2 Citations: 6 DOI: 10.1016/j.colsurfa.2023.132738	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
The synergistic triad of graphene quantum dots, polymer, and ferrites for the photodegradation of dyes in aqueous solution	2023

Saima Perveen Waheed Miran Gajanan Ghodake Waqar Azeem Xizi Long Fahad Azad

Heliyon , Volume 9, Issue 11, Article Number e21739

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 4

DOI: <https://doi.org/10.1016/j.heliyon.2023.e21739>

Wood as a green and sustainable alternative for environmentally friendly & flexible electronic devices

2023

Nouman Ahmed Hizbullah Malik Muhammad Bilal Khan Niazi Waheed Miran Ahmed M. Tawfeek Zaib Jahan Emadeldin M. Kamel Muhammad Saeed Akhtar

Chemosphere , Volume 336, Article Number 139213

Impact Factor: 8.8 | **Quartile:** 1 | **Citations:** 10

DOI: [10.1016/j.chemosphere.2023.139213](https://doi.org/10.1016/j.chemosphere.2023.139213)

Novel cytotoxicity study of strontium (Sr) doped iron oxide (Fe₃O₄) nanoparticles aided with ibuprofen for drug delivery applications

2023

Imad Ud Din Irum Shahid Khan Iftikhar Hussain Gul Zakir Hussain Waheed Miran Farhan Javaid Usman Liaquat

Naunyn-Schmiedeberg's Archives of Pharmacology , Pages 1-17

Impact Factor: 3.6 | **Quartile:** 2 | **Citations:** 7

DOI: <https://doi.org/10.1007/s00210-023-02582-7>

Nonthermal plasma catalysis using ferrites as an efficient catalyst for toluene degradation

2023

Khurram Shahzad Ayub Zain Abbas Waqas Qamar Zaman Shoaib Rauf Muazzam Arshad Meesam Ali Waheed Miran Umair Mushtaq Haroon Khalid Ji Yang

Research on Chemical Intermediates , Volume 49, Pages 2399-2415

Impact Factor: 3.134 | **Quartile:** 3 | **Citations:** 2

DOI: [10.1007/s11164-023-05010-w](https://doi.org/10.1007/s11164-023-05010-w)

Feasibility Study of Anaerobic Baffled Reactor Coupled with Anaerobic Filter Followed by Membrane Filtration for Wastewater Treatment

2023

Aamir Khan Sher Jamal Khan Waheed Miran Waqas Qamar Zaman Alia Aslam Hafiz Muhammad Aamir Shahzad

Membranes , Volume 13(1), Article Number 79

Impact Factor: 4.562 | **Quartile:** 1 | **Citations:** 6

DOI: <https://doi.org/10.3390/membranes13010079>

Multivariate landscapes constructed by Bayesian estimation over five hundred microbial electrochemical time profiles

2022

Waheed Miran Wenyan Huang Xizi Long Gaku Imamura Akihiro Okamoto

Patterns , Volume 3, Issue 11, Article Number 100610

Impact Factor: N/A | **Citations:** 5

DOI: [10.1016/j.patter.2022.100610](https://doi.org/10.1016/j.patter.2022.100610)

Efficient post-plasma catalytic degradation of toluene via series of Co–Cu/TiO₂ catalysts

2022

Waqas Qamar Zaman Waheed Miran Meesam Ali Zain Abbas Umair Mushtaq Asif Shahzad Ji Yang Khurram Shahzad Ayub

Research on Chemical Intermediates , Pages 1-22

Impact Factor: 3.134 | **Quartile:** 3 | **Citations:** 13

DOI: [10.1007/s11164-022-04805-7](https://doi.org/10.1007/s11164-022-04805-7)

Methane dry reforming with CO₂ over ceria supported Ni catalyst prepared by reverse microemulsion synthesis

2022

Muhammad Usman Rashid Wan Mohd Ashri Wan Daud Nur Atikah Mohidem Mardawani Binti Mohamad Javaid Akhtar Mudussar Azam Waheed Miran

Fuel , Volume:317

Impact Factor: 8.035 | **Quartile:** 1 | **Citations:** 17

DOI: [10.1016/j.fuel.2022.123433](https://doi.org/10.1016/j.fuel.2022.123433)

Current Production Capability of Drug-Resistant Pathogen Enables Its Rapid Label-Free Detection Applicable to Wastewater-Based Epidemiology

2022

Waheed Miran Xizi Long Wenyan Huang Akihiro Okamoto

Microorganisms , Volume 10(2), Article Number 472

Impact Factor: 4.926 | **Quartile:** 2 | **Citations:** 5

DOI: [10.3390/microorganisms10020472](https://doi.org/10.3390/microorganisms10020472)

MXene-coated biochar as potential biocathode for improved microbial electrosynthesis system

2021

Khurram Tahir Waheed Miran Jiseon Jang Nagesh Maile Asif Shahzad Mokrema Moztahida Ahsan Abdul Ghani Bolam Kim Hyeji Jeon Dae Sung Lee

Science of the Total Environment , Volume 773, Article Number 145677

Impact Factor: 7.14 | **Quartile:** 1 | **Citations:** 32

DOI: [10.1016/j.scitotenv.2021.145677](https://doi.org/10.1016/j.scitotenv.2021.145677)

Biogenesis of Outer Membrane Vesicles Concentrates the Unsaturated Fatty Acid of Phosphatidylinositol in <i>Capnocytophaga ochracea</i> <i>Divya Naradasu Waheed Miran Shurti Sharma Satoshi Takenawa Takamitsu Soma Nobuhiko Nomura Masanori Toyofuku Akihiro Okamoto</i> <i>Frontiers in Microbiology</i> , Volume 12, Article Number 682685 Impact Factor: 6.064 Quartile: 1 Citations: 17 DOI: 10.3389/fmicb.2021.682685	2021
Enhanced product selectivity in the microbial electrosynthesis of butyrate using a nickel ferrite-coated biocathode <i>Khurram Tahir Waheed Miran Jiseon Jang Seung Han Woo Dae Sung Lee</i> <i>Environmental Research</i> , Volume 196, Article Number 110907 Impact Factor: 8.431 Quartile: 1 Citations: 34 DOI: 10.1016/j.envres.2021.110907	2021
Nickel ferrite/MXene-coated carbon felt anodes for enhanced microbial fuel cell performance <i>Khurram Tahir Jiseon Jang Nagesh Maile Asif Shahzad Waheed Miran Mokrema Moztahida Ahsan Abdul Ghani Bolam Kim Hyeji Jeon Seong-Rin Lim Dae Sung Lee</i> <i>Chemosphere</i> , Volume 268, Article Number 128784 Impact Factor: 8.943 Quartile: 1 Citations: 61 DOI: 10.1016/j.chemosphere.2020.128784	2021
Carbamazepine biodegradation and volatile fatty acids production by selectively enriched sulfate-reducing bacteria and fermentative acidogenic bacteria <i>Khurram Tahir Waheed Miran Jiseon Jang Asif Shahzad Mokrema Moztahida Bolam Kim Seong-Rin Lim Dae Sung Lee</i> <i>Journal of Chemical Technology and Biotechnology</i> , Volume 96, Issue 3, Pages 592-602 Impact Factor: 3.709 Quartile: 2 Citations: 9 DOI: 10.1002/jctb.6572	2021
MnCo2O4 coated carbon felt anode for enhanced microbial fuel cell performance <i>Khurram Tahir Waheed Miran Jiseon Jang Nagesh Maile Asif Shahzad Mokrema Moztahida Ahsan Abdul Ghani Bolam Kim Dae Sung Lee</i> <i>Chemosphere</i> , Volume 265, Article Number 129098 Impact Factor: 8.943 Quartile: 1 Citations: 53 DOI: 10.1016/j.chemosphere.2020.129098	2021
Selectively enriched mixed sulfate-reducing bacteria for acrylamide biodegradation <i>Khurram Tahir Waheed Miran Jiseon Jang Mokrema Moztahida H. Jeon Bolam Kim Seong-Rin Lim Dae Sung Lee A. Shahzad</i> <i>International Journal of Environmental Science and Technology</i> , Volume 17, Issue 12, Pages 4693-4702 Impact Factor: 2.860 Quartile: 3 Citations: 2 DOI: 10.1007/s13762-020-02819-5	2020
Microbial current production from <i>Streptococcus mutans</i> correlates with biofilm metabolic activity <i>Divya Naradasu Alexis Guionet Waheed Miran Akihiro Okamoto</i> <i>Biosensors and Bioelectronics</i> , Volume 162, Article Number 112236 Impact Factor: 10.618 Quartile: 1 Citations: 31 DOI: https://doi.org/10.1016/j.bios.2020.112236	2020
Mechanism of Anaerobic Microbial Corrosion Suppression by Mild Negative Cathodic Polarization on Carbon Steel <i>Marina Shiibashi Xiao Deng Waheed Miran Akihiro Okamoto</i> <i>Environmental Science and Technology Letters</i> , Volume 7, Issue 9, Pages 690-694 Impact Factor: 7.653 Quartile: 1 Citations: 7 DOI: https://dx.doi.org/10.1021/acs.estlett.0c00383	2020
Metabolic current production by an oral biofilm pathogen <i>Corynebacterium matruchotii</i> <i>Divya Naradasu Waheed Miran Akihiro Okamoto</i> <i>Molecules</i> , Volume 25, Issue 14, Article Number 3141 Impact Factor: 4.412 Quartile: 2 Citations: 14 DOI: 10.3390/molecules25143141	2020
A human pathogen <i>Capnocytophaga ochracea</i> exhibits current producing capability <i>Shu Zhang Waheed Miran Divya Naradasu Siyi Guo Akihiro Okamoto</i> <i>Electrochemistry</i> , Volume 88, Issue 3, Pages 224-229 Impact Factor: 1.381 Quartile: 4 Citations: 12 DOI: 10.5796/electrochemistry.20-00021	2020

<p>A novel MXene-coated biocathode for enhanced microbial electrosynthesis performance</p> <p><i>Khurram Tahir Waheed Miran Jiseon Jang Asif Shahzad Mokrema Moztahida Bolam Kim Dae Sung Lee</i></p> <p><i>Chemical Engineering Journal</i>, Volume 381, Article Number 122687</p> <p>Impact Factor: 13.273 Quartile: 1 Citations: 85</p> <p>DOI: 10.1016/j.cej.2019.122687</p>	2020
<p>Investigating the role of anodic potential in the biodegradation of carbamazepine in bioelectrochemical systems</p> <p><i>Khurram Tahir Waheed Miran Mohsin Nawaz Jiseon Jang Asif Shahzad Mokrema Moztahida Bolam Kim Mudussar Azam Sang Eun Jeong Che Ok Jeon Seong-Rin Lim Dae Sung Lee</i></p> <p><i>Science of the Total Environment</i>, Volume 688, Pages 56-64</p> <p>Impact Factor: 6.551 Quartile: 1 Citations: 24</p> <p>DOI: 10.1016/j.scitotenv.2019.06.219</p>	2019
<p>Isolation and characterization of human gut bacteria capable of extracellular electron transport by electrochemical techniques</p> <p><i>Divya Naradasu Waheed Miran Mitsuo Sakamoto Akihiro Okamoto</i></p> <p><i>Frontiers in Microbiology</i>, Volume 10, Article Number 3267</p> <p>Impact Factor: 4.236 Quartile: 1 Citations: 46</p> <p>DOI: 10.3389/fmicb.2018.03267</p>	2019
<p>Biosynthesized Iron Sulfide Nanocluster Enhanced Anodic Current Generation by Sulfate Reducing Bacteria in Microbial Fuel Cells</p> <p><i>Muralidharan Murugan Waheed Miran Takuya Masuda Dae S. Lee Akihiro Okamoto</i></p> <p><i>ChemElectroChem</i>, Volume 5, Issue 24, Pages 4015-4020</p> <p>Impact Factor: 3.975 Quartile: 2 Citations: 25</p> <p>DOI: DOI: 10.1002/celc.201801086</p>	2018
<p>Photodegradation of microcystin-LR using graphene-TiO₂/sodium alginate aerogels</p> <p><i>Mohsin Nawaza Mokrema Moztahidaa Jiho Kima Asif Shahzada Jiseon Janga Waheed Miran Dae Sung Lee</i></p> <p><i>Carbohydrate Polymers</i>, Volume 199, Pages 109-118</p> <p>Impact Factor: 6.044 Quartile: 1 Citations: 69</p> <p>DOI: https://doi.org/10.1016/j.carbpol.2018.07.007</p>	2018
<p>Biodegradation of the sulfonamide antibiotic sulfamethoxazole by sulfamethoxazole acclimatized cultures in microbial fuel cells</p> <p><i>Waheed Miran Jiseon Jang Mohsin Nawaz Asif Shahzad Dae Sung Lee</i></p> <p><i>Science of the Total Environment</i>, Volume 627, Pages 1058-1065</p> <p>Impact Factor: 5.589 Quartile: 1 Citations: 132</p> <p>DOI: https://doi.org/10.1016/j.scitotenv.2018.01.326</p>	2018
<p>Sulfate-reducing mixed communities with the ability to generate bioelectricity and degrade textile diazo dye in microbial fuel cells</p> <p><i>Waheed Miran Jiseon Jang Mohsin Nawaz Asif Shahzad Dae Sung Lee</i></p> <p><i>Journal of Hazardous Materials</i>, Volume 352, Pages 70-79</p> <p>Impact Factor: 7.650 Quartile: 1 Citations: 83</p> <p>DOI: https://doi.org/10.1016/j.jhazmat.2018.03.027</p>	2018
<p>Amino-functionalized multi-walled carbon nanotubes for removal of cesium from aqueous solution</p> <p><i>Jiseon Jang Waheed Miran Dae Sung Lee</i></p> <p><i>Journal of Radioanalytical and Nuclear Chemistry</i>, Volume 316, Issue 2, Pages 691-701</p> <p>Impact Factor: 1.186 Quartile: 3 Citations: 13</p> <p>DOI: https://doi.org/10.1007/s10967-018-5812-6</p>	2018
<p>Mercuric ion capturing by recoverable titanium carbide magnetic nanocomposite</p> <p><i>Asif Shahzad Kashif Rasool Waheed Miran Mohsin Nawaz Jiseon Jang Khaled A. Mahmoud Dae Sung Lee</i></p> <p><i>Journal of Hazardous Materials</i>, Volume 344, Pages 811-818</p> <p>Impact Factor: 7.650 Quartile: 1 Citations: 202</p> <p>DOI: https://doi.org/10.1016/j.jhazmat.2017.11.026</p>	2018
<p>Rice straw-based biochar beads for the removal of radioactive strontium from aqueous solution</p> <p><i>Jiseon Jang Waheed Miran Sewu D. Divine Mohsin Nawaz Asif Shahzada Seung Han Woo Dae Sung Lee</i></p> <p><i>Science of the Total Environment</i>, Volume 615, Pages 698-707</p> <p>Impact Factor: 5.589 Quartile: 1 Citations: 108</p> <p>DOI: https://doi.org/10.1016/j.scitotenv.2017.10.023</p>	2018

Mixed sulfate-reducing bacteria-enriched microbial fuel cells for the treatment of wastewater containing copper <i>Waheed Miran Jiseon Jang Mohsin Nawaz Asif Shahzad Sang Eun Jeong Che Ok Jeon Dae Sung Lee</i> <i>Chemosphere</i> , Volume 189, Pages 134-142 Impact Factor: 4.427 Quartile: 1 Citations: 104 DOI: https://doi.org/10.1016/j.chemosphere.2017.09.048	2017
Two-Dimensional Ti3C2Tx MXene Nanosheets for Efficient Copper Removal from Water <i>Asif Shahzad Kashif Rasool Waheed Miran Mohsin Nawaz Jiseon Jang Khaled A. Mahmoud Dae Sung Lee</i> <i>ACS Sustainable Chemistry & Engineering</i> , Volume 5, Issue 12, Pages 11481-11488 Impact Factor: 6.140 Quartile: 1 Citations: 422 DOI: 10.1021/acssuschemeng.7b02695	2017
Chlorinated phenol treatment and in situ hydrogen peroxide production in a sulfate-reducing bacteria enriched bioelectrochemical system <i>Waheed Miran Mohsin Nawaz Jiseon Jang Dae Sung Lee</i> <i>Water Research</i> , Volume 117, Pages 198-206 Impact Factor: 7.051 Quartile: 1 Citations: 66 DOI: http://dx.doi.org/10.1016/j.watres.2017.04.008	2017
One-step hydrothermal synthesis of porous 3D reduced graphene oxide/TiO2 aerogel for carbamazepine photodegradation in aqueous solution <i>Mohsin Nawaz Waheed Miran Jiseon Jang Dae Sung Lee</i> <i>Applied Catalysis B: Environmental</i> , Volume 203, Pages 85-95 Impact Factor: 11.698 Quartile: 1 Citations: 253 DOI: http://dx.doi.org/10.1016/j.apcatb.2016.10.007	2017
Stabilization of Pickering emulsion with surface-modified titanium dioxide for enhanced photocatalytic degradation of Direct Red 80 <i>Mohsin Nawaz Waheed Miran Jiseon Jang Dae Sung Lee</i> <i>Catalysis Today</i> , Volume 282, Pages 38-47 Impact Factor: 4.667 Quartile: 1 Citations: 33 DOI: http://dx.doi.org/10.1016/j.cattod.2016.02.017	2017
Heavy metals removal by EDTA-functionalized chitosan graphene oxide nanocomposites <i>Asif Shahzad Waheed Miran Kashif Rasool Mohsin Nawaz Jiseon Jang Seong-Rin Lim Dae Sung Lee</i> <i>RSC Advances</i> , Volume 7, Issue 16, Pages 9764-9771 Impact Factor: 2.936 Quartile: 2 Citations: 191 DOI: 10.1039/c6ra28406j	2017
Effect of wastewater containing multi-walled carbon nanotubes on dual-chamber microbial fuel cell performance <i>Waheed Miran Mohsin Nawaz Jiseon Jang Dae Sung Lee</i> <i>RSC Advances</i> , Volume 6, Issue 94, Pages 91314-91319 Impact Factor: 3.108 Quartile: 2 Citations: 6 DOI: 10.1039/c6ra20128h	2016
Simultaneous electricity production and Direct Red 80 degradation using a dual chamber microbial fuel cell <i>Waheed Miran Kashif Rasool Mohsin Nawaz Avinash Kadam Seolhye Shin Jun Heo Jiseon Jang Dae Sung Lee</i> <i>Desalination and Water Treatment</i> , Volume 57, Issue 19, Pages 9051-9059 Impact Factor: 1.631 Quartile: 2 Citations: 22 DOI: 10.1080/19443994.2015.1049410	2016
Conversion of orange peel waste biomass to bioelectricity using a mediator-less microbial fuel cell <i>Waheed Miran Mohsin Nawaz Jiseon Jang Dae Sung Lee</i> <i>Science of the Total Environment</i> , Volume 547, Pages 197-205 Impact Factor: 4.900 Quartile: 1 Citations: 111 DOI: http://dx.doi.org/10.1016/j.scitotenv.2016.01.004	2016
Microbial community structure in a dual chamber microbial fuel cell fed with brewery waste for azo dye degradation and electricity generation <i>Waheed Miran Mohsin Nawaz Avinash Kadam Seolhye Shin Jun Heo Jiseon Jang Dae Sung Lee</i> <i>Environmental Science and Pollution Research</i> , Volume 22, Issue 17, Pages 13477-13485 Impact Factor: 2.760 Quartile: 2 Citations: 76	2015

Conference Proceedings

Wonders of electricity producing bugs <i>Waheed Miran</i> 2023 International Conference on Energy, Power, Environment, Control, and Computing, res.country(177,) Citations: N/A DOI: Nil	2023
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Book Chapters

Drug efficiency monitoring using biofilm/electrode interfacial electron transfer associated with pathogen metabolisms <i>Divya Naradasu Waheed Miran Luo Dan Sotaro Takano Akihiro Okamoto</i> In: <i>Material-Microbes Interactions: Environmental Biotechnological Perspective</i> , Chapter 15, Pages 369-385 Citations: N/A DOI: 10.1016/B978-0-323-95124-1.00010-3	2023
Antibacterial Properties of Two-Dimensional Nanomaterials <i>Elishba Noor Usman Liaqat Waqas Qamar Zaman Sabir Hussain Asif Shahzad Kashif Rasool Zaeem Bin Babar Waheed Miran</i> In: <i>Book on Two-Dimensional Materials for Environmental Applications</i> , 1st Edition, Chapter 5, Pages 137-160 Citations: 3 DOI: 10.1007/978-3-031-28756-5_5	2023
Biowaste Materials for Advanced Biodegradable Packaging Technology <i>Mohammed Y. Emran Waheed Miran Hassanien Gomaa Islam Ibrahim George V. Belessiotis Adel A. Abdelwahab Mahmoud Ben Othman</i> In: <i>Handbook of Biodegradable Materials</i> , Chapter 1, Pages 1-37 Citations: N/A DOI: 10.1007/978-3-030-83783-9_46-1	2022
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