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 3078, carried out 3 projects and filed 2 intellectual property.

Qualifications

PhD in Environmental and Energy Engineering 2014 - 2018
Kyungpook National University , South Korea

MSc in Environmental and Energy Engineering 2012 - 2014
Kyungpook National University , South Korea

Post Grad Diploma in Petroleum and Gas 2004 - 2009
University of the Punjab , Pakistan

Experience

Associate Professor 2025- Present
School of Chemical & Materials Engineering

Associate Professor 2024 - 2024
School of Chemical & Materials Engineering

Associate Professor 2023 - 2024
School of Chemical & Materials Engineering

Assistant Professor 2021 - 2023
School of Chemical & Materials Engineering

JSPS Postdoctoral Fellowship 2019 - 2021
National Institute for Materials Science , Tsukuba, Japan

Postdoctoral Researcher 2018 - 2019
National Institute for Materials Science , Tsukuba, Japan

Process Support Manager 2009 - 2012
Lotte Chemicals , Port Qasim, Karachi

Research Projects

National Projects

4th ASEAN-Pakistan Conference on Materials Science (APCoMS 2025) 2025
Funding Agency: ASEAN Pakistan Collaboration Fund
Amount: PKR 24,780,568.00
Status: Approved_inprocess

Two-Dimensional Transition Metal-Boride (MBenes) for Electrochemical Sensing of Hepcidin: A Biomarker of Iron-Related Disorders—An Experimental and DFT Study 2025
Funding Agency: Pakistan Academy of Sciences
Amount: PKR 4,000,000.00
Status: Approved_inprocess

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 Iftikhar Hussain Gul Zakir Hussain Aneela Javed Usman Liaqat

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 Liaqat

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 2024

Zoya Iqbal Sonadia Waheed Miran Anwar Ul-Hamid Manzar Sohail Fahad Azad
Fuel, Volume:372, Article Number:132112
Impact Factor: 6.7 | **Quartile:** 1 | **Citations:** 10
DOI: 10.1016/j.fuel.2024.132112

Mitigation of uranium toxicity in rice by Sphingopyxis sp. YF1: Evidence from growth, ultrastructure, subcellular distribution, and physiological characteristics 2024

Jun Liu Xinting Fan Juan Ni Meihan Cai Danping Cai Yuanyuan Jiang Aili Mo Waheed Miran Tangjian Peng Xizi Long Fei Yang
Plant Physiology and Biochemistry, Volume 214, Article Number 108958
Impact Factor: 6.100 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1016/j.plaphy.2024.108958

An electrochemical sensor based on copper oxide nanoparticles loaded on a mesoporous MCM-41 for non-enzymatic detection of glucose 2024

Zohaa Dooa Arif Muneeb Hassan Muhammad Abdullah Waheed Miran Muhammad Ahsan Nasir Sadaf Batool Muhammad Aslam Baig Usman Liaqat
Ceramics International, 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

Green synthesized silver nanoparticles using Rhazya stricta extract for delivery of HDAC inhibitor panobinostat in MDA- MB-231 breast cancer cell line 2024

Tayyaba Nawaz Adeeb Shehzad Waheed Miran Aroosa Younis Nadeem Tooba Nawaz
Nanomedicine Journal, Volume 10(2), Pages 187-195
Impact Factor: 1.400 | **Quartile:** 4 | **Citations:** 2
DOI: 10.22038/NMJ.2024.75733.1839

Enhanced Electrocatalytic Performance of Erbium-Incorporated Nickel-Based Metal–Organic Frameworks for Water Splitting 2024

Sonadia Zoya Iqbal Waheed Miran Anwar-Ul-Hamid Khurram Shehzad Ayub Fahad Azad
Energy Fuels, Vol:38, Isseu: 6, Pages:5397-5406
Impact Factor: 5.3 | **Quartile:** 1 | **Citations:** 12
DOI: 10.1021/acs.energyfuels.3c04609

Whitlockite -A study on the effect of reaction parameters on morphology in one-solvent system. 2024

Anum Ayub Usman Liaqat Zakir Hussain Waheed Miran
Materials Chemistry and Physics, Volume 314, Article Number: 128932
Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 1
DOI: 10.1016/j.matchemphys.2024.128932

Electrochemical Characterization of Two Gut Microbial Strains Cooperatively Promoting Multiple Sclerosis Pathogenesis 2024

Divya Naradasu Waheed Miran Akihiro Okamoto
Microorganisms , Volume 12, Issue 2, Article Number 257
Impact Factor: 4.5 | **Quartile:** 2 | **Citations:** 1
DOI: 10.3390/microorganisms12020257

Optimized electrocatalytic degradation of ciprofloxacin using Co3O4 coated stainless steel electrodes 2024

Muhammad Usman Saleem Muhammad Jawad Fahad Azad Muhammad Asif Nawaz Waqas Qamar Zaman Waheed Miran
Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 681, Article Number 132738
Impact Factor: 5.2 | **Quartile:** 2 | **Citations:** 6
DOI: 10.1016/j.colsurfa.2023.132738

Performance comparison of a photosynthetic and mechanically aerated microbial fuel cell for wastewater treatment and bioenergy generation using different anolytes 2023

Zia Ullah Waqas Qamar Zaman Zeshan Sheikh Muhammad Zeeshan Ali Khan Waheed Miran Jiansheng Li Muhammad Abdul Nasir Khan Shanza Shabbir
Journal of Water Process Engineering, Volume 56, Article Number 104358
Impact Factor: 7.0 | **Quartile:** 1 | **Citations:** 6
DOI: 10.1016/j.jwpe.2023.104358

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

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 Liaqat

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

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 Wenyuan 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

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:** 14

DOI: 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

Current Production Capability of Drug-Resistant Pathogen Enables Its Rapid Label-Free Detection Applicable to Wastewater-Based Epidemiology 2022

Waheed Miran Xizi Long Wenyuan Huang Akihiro Okamoto

Microorganisms , Volume 10(2), Article Number 472

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

DOI: 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

Biogenesis of Outer Membrane Vesicles Concentrates the Unsaturated Fatty Acid of Phosphatidylinositol in Capnocytophaga ochracea 2021

Divya Naradasu Waheed Miran Shurti Sharma Satoshi Takenawa Takamitsu Soma Nobuhiko Nomura Masanori Toyofuku Akihiro Okamoto

Frontiers in Microbiology, Volume 12, Article Number 682685

Impact Factor: 6.064 | **Quartile:** 1 | **Citations:** 17

DOI: 10.3389/fmicb.2021.682685

Enhanced product selectivity in the microbial electrosynthesis of butyrate using a nickel ferrite-coated biocathode 2021

Khurram Tahir Waheed Miran Jiseon Jang Seung Han Woo Dae Sung Lee

Environmental Research , Volume 196, Article Number 110907

Impact Factor: 8.431 | **Quartile:** 1 | **Citations:** 34

DOI: 10.1016/j.envres.2021.110907

Nickel ferrite/MXene-coated carbon felt anodes for enhanced microbial fuel cell performance 2021

Khurram Tahir Jiseon Jang Nagesh Maile Asif Shahzad Waheed Miran Mokrema Moztahida Ahsan Adul Ghani Bolam Kim Hyeji Jeon Seong-Rin Lim Dae Sung Lee

Chemosphere , Volume 268, Article Number 128784

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 61

DOI: 10.1016/j.chemosphere.2020.128784

Carbamazepine biodegradation and volatile fatty acids production by selectively enriched sulfate-reducing bacteria and fermentative acidogenic bacteria 2021

Khurram Tahir Waheed Miran Jiseon Jang Asif Shahzad Mokrema Moztahida Bolam Kim Seong-Rin Lim Dae Sung Lee

Journal of Chemical Technology and Biotechnology, Volume 96, Issue 3, Pages 592-602

Impact Factor: 3.709 | **Quartile:** 2 | **Citations:** 9

DOI: 10.1002/jctb.6572

MnCo2O4 coated carbon felt anode for enhanced microbial fuel cell performance 2021

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

Chemosphere , Volume 265, Article Number 129098

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 53

DOI: 10.1016/j.chemosphere.2020.129098

Selectively enriched mixed sulfate-reducing bacteria for acrylamide biodegradation 2020

Khurram Tahir Waheed Miran Jiseon Jang Mokrema Moztahida H. Jeon Bolam Kim Seong-Rin Lim Dae Sung Lee A. Shahzad

International Journal of Environmental Science and Technology, Volume 17, Issue 12, Pages 4693-4702

Impact Factor: 2.860 | **Quartile:** 3 | **Citations:** 2

DOI: 10.1007/s13762-020-02819-5

Microbial current production from Streptococcus mutans correlates with biofilm metabolic activity 2020

Divya Naradasu Alexis Guionet Waheed Miran Akihiro Okamoto

Biosensors and Bioelectronics , Volume 162, Article Number 112236

Impact Factor: 10.618 | **Quartile:** 1 | **Citations:** 31

DOI: https://doi.org/10.1016/j.bios.2020.112236

Mechanism of Anaerobic Microbial Corrosion Suppression by Mild Negative Cathodic Polarization on Carbon Steel 2020

Marina Shiibashi Xiao Deng Waheed Miran Akihiro Okamoto

Environmental Science and Technology Letters , 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

Metabolic current production by an oral biofilm pathogen corynebacterium matruchotii 2020

Divya Naradasu Waheed Miran Akihiro Okamoto

Molecules , Volume 25, Issue 14, Article Number 3141

Impact Factor: 4.412 | **Quartile:** 2 | **Citations:** 14

DOI: 10.3390/molecules25143141

A human pathogen Capnocytophaga ochracea exhibits current producing capability 2020

Shu Zhang Waheed Miran Divya Naradasu Siyi Guo Akihiro Okamoto

Electrochemistry , Volume 88, Issue 3, Pages 224-229

Impact Factor: 1.381 | **Quartile:** 4 | **Citations:** 12

DOI: 10.5796/electrochemistry.20-00021

A novel MXene-coated biocathode for enhanced microbial electrosynthesis performance 2020

Khurram Tahir Waheed Miran Jiseon Jang Asif Shahzad Mokrema Moztahida Bolam Kim Dae Sung Lee

Chemical Engineering Journal, Volume 381, Article Number 122687

Impact Factor: 13.273 | **Quartile:** 1 | **Citations:** 85

DOI: 10.1016/j.cej.2019.122687

Investigating the role of anodic potential in the biodegradation of carbamazepine in bioelectrochemical systems 2019

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

Science of the Total Environment, Volume 688, Pages 56-64

Impact Factor: 6.551 | **Quartile:** 1 | **Citations:** 24

DOI: 10.1016/j.scitotenv.2019.06.219

Isolation and characterization of human gut bacteria capable of extracellular electron transport by electrochemical techniques 2019

Divya Naradasu Waheed Miran Mitsuo Sakamoto Akihiro Okamoto

Frontiers in Microbiology, Volume 10, Article Number 3267

Impact Factor: 4.236 | **Quartile:** 1 | **Citations:** 46

DOI: 10.3389/fmicb.2018.03267

Biosynthesized Iron Sulfide Nanocluster Enhanced Anodic Current Generation by Sulfate Reducing Bacteria in Microbial Fuel Cells 2018

Muralidharan Murugan Waheed Miran Takuya Masuda Dae S. Lee Akihiro Okamoto

ChemElectroChem, Volume 5, Issue 24, Pages 4015-4020

Impact Factor: 3.975 | **Quartile:** 2 | **Citations:** 25

DOI: DOI: 10.1002/celc.201801086

Photodegradation of microcystin-LR using graphene-TiO2/sodium alginate aerogels 2018

Mohsin Nawaza Mokrema Moztahidaa Jiho Kima Asif Shahzada Jiseon Janga Waheed Miran Dae Sung Lee

Carbohydrate Polymers, Volume 199, Pages 109-118

Impact Factor: 6.044 | **Quartile:** 1 | **Citations:** 69

DOI: https://doi.org/10.1016/j.carbpol.2018.07.007

Biodegradation of the sulfonamide antibiotic sulfamethoxazole by sulfamethoxazole acclimatized cultures in microbial fuel cells 2018

Waheed Miran Jiseon Jang Mohsin Nawaz Asif Shahzad Dae Sung Lee

Science of the Total Environment, Volume 627, Pages 1058-1065

Impact Factor: 5.589 | **Quartile:** 1 | **Citations:** 132

DOI: https://doi.org/10.1016/j.scitotenv.2018.01.326

Sulfate-reducing mixed communities with the ability to generate bioelectricity and degrade textile diazo dye in microbial fuel cells 2018

Waheed Miran Jiseon Jang Mohsin Nawaz Asif Shahzad Dae Sung Lee

Journal of Hazardous Materials, Volume 352, Pages 70-79

Impact Factor: 7.650 | **Quartile:** 1 | **Citations:** 83

DOI: https://doi.org/10.1016/j.jhazmat.2018.03.027

Amino-functionalized multi-walled carbon nanotubes for removal of cesium from aqueous solution 2018

Jiseon Jang Waheed Miran Dae Sung Lee

Journal of Radioanalytical and Nuclear Chemistry, Volume 316, Issue 2, Pages 691-701

Impact Factor: 1.186 | **Quartile:** 3 | **Citations:** 13

DOI: https://doi.org/10.1007/s10967-018-5812-6

Mercuric ion capturing by recoverable titanium carbide magnetic nanocomposite 2018

Asif Shahzad Kashif Rasool Waheed Miran Mohsin Nawaz Jiseon Jang Khaled A. Mahmoud Dae Sung Lee

Journal of Hazardous Materials, Volume 344, Pages 811-818

Impact Factor: 7.650 | **Quartile:** 1 | **Citations:** 202

DOI: https://doi.org/10.1016/j.jhazmat.2017.11.026

Rice straw-based biochar beads for the removal of radioactive strontium from aqueous solution 2018

Jiseon Jang Waheed Miran Sewu D. Divine Mohsin Nawaz Asif Shahzada Seung Han Woo Dae Sung Lee

Science of the Total Environment, Volume 615, Pages 698-707

Impact Factor: 5.589 | **Quartile:** 1 | **Citations:** 108

DOI: https://doi.org/10.1016/j.scitotenv.2017.10.023

Mixed sulfate-reducing bacteria-enriched microbial fuel cells for the treatment of wastewater containing copper 2017

Waheed Miran Jiseon Jang Mohsin Nawaz Asif Shahzad Sang Eun Jeong Che Ok Jeon Dae Sung Lee

Chemosphere, Volume 189, Pages 134-142

Impact Factor: 4.427 | **Quartile:** 1 | **Citations:** 104

DOI: https://doi.org/10.1016/j.chemosphere.2017.09.048

Two-Dimensional Ti3C2Tx MXene Nanosheets for Efficient Copper Removal from Water 2017

Asif Shahzad Kashif Rasool Waheed Miran Mohsin Nawaz Jiseon Jang Khaled A. Mahmoud Dae Sung Lee

ACS Sustainable Chemistry & Engineering, Volume 5, Issue 12, Pages 11481-11488

Impact Factor: 6.140 | **Quartile:** 1 | **Citations:** 422

DOI: 10.1021/acssuschemeng.7b02695

Chlorinated phenol treatment and in situ hydrogen peroxide production in a sulfate-reducing bacteria enriched bioelectrochemical system 2017

Waheed Miran Mohsin Nawaz Jiseon Jang Dae Sung Lee

Water Research, 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

One-step hydrothermal synthesis of porous 3D reduced graphene oxide/TiO2 aerogel for carbamazepine photodegradation in aqueous solution 2017

Mohsin Nawaz Waheed Miran Jiseon Jang Dae Sung Lee

Applied Catalysis B: Environmental, 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

Stabilization of Pickering emulsion with surface-modified titanium dioxide for enhanced photocatalytic degradation of Direct Red 80 2017

Mohsin Nawaz Waheed Miran Jiseon Jang Dae Sung Lee

Catalysis Today, 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

Heavy metals removal by EDTA-functionalized chitosan graphene oxide nanocomposites 2017

Asif Shahzad Waheed Miran Kashif Rasool Mohsin Nawaz Jiseon Jang Seong-Rin Lim Dae Sung Lee

RSC Advances, Volume 7, Issue 16, Pages 9764-9771

Impact Factor: 2.936 | **Quartile:** 2 | **Citations:** 191

DOI: 10.1039/c6ra28406j

Effect of wastewater containing multi-walled carbon nanotubes on dual-chamber microbial fuel cell performance 2016

Waheed Miran Mohsin Nawaz Jiseon Jang Dae Sung Lee

RSC Advances, Volume 6, Issue 94, Pages 91314-91319

Impact Factor: 3.108 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1039/c6ra20128h

Simultaneous electricity production and Direct Red 80 degradation using a dual chamber microbial fuel cell 2016

Waheed Miran Kashif Rasool Mohsin Nawaz Avinash Kadam Seolhye Shin Jun Heo Jiseon Jang Dae Sung Lee

Desalination and Water Treatment, Volume 57, Issue 19, Pages 9051-9059

Impact Factor: 1.631 | **Quartile:** 2 | **Citations:** 22

DOI: 10.1080/19443994.2015.1049410

Conversion of orange peel waste biomass to bioelectricity using a mediator-less microbial fuel cell 2016

Waheed Miran Mohsin Nawaz Jiseon Jang Dae Sung Lee

Science of the Total Environment, 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

Microbial community structure in a dual chamber microbial fuel cell fed with brewery waste for azo dye degradation and electricity generation 2015

Waheed Miran Mohsin Nawaz Avinash Kadam Seolhye Shin Jun Heo Jiseon Jang Dae Sung Lee

Environmental Science and Pollution Research, Volume 22, Issue 17, Pages 13477-13485

Impact Factor: 2.760 | **Quartile:** 2 | **Citations:** 76

DOI: 10.1007/s11356-015-4582-8

Conference Proceedings

Wonders of electricity producing bugs 2023

Waheed Miran

2023 International Conference on Energy, Power, Environment, Control, and Computing, res.country(177,)

Citations: N/A

DOI: Nil

Book Chapters

Drug efficiency monitoring using biofilm/electrode interfacial electron transfer associated with pathogen metabolisms 2023

Divya Naradasu Waheed Miran Luo Dan Sotaro Takano Akihiro Okamoto

In: *Material-Microbes Interactions: Environmental Biotechnological Perspective* , Chapter 15, Pages 369-385

Citations: N/A

DOI: 10.1016/B978-0-323-95124-1.00010-3

Antibacterial Properties of Two-Dimensional Nanomaterials 2023

Elishba Noor Usman Liaqat Waqas Qamar Zaman Sabir Hussain Asif Shahzad Kashif Rasool Zaeem Bin Babar Waheed Miran

In: *Book on Two-Dimensional Materials for Environmental Applications*, 1st Edition, Chapter 5, Pages 137-160

Citations: 3

DOI: 10.1007/978-3-031-28756-5_5

Biowaste Materials for Advanced Biodegradable Packaging Technology 2022

Mohammed Y. Emran Waheed Miran Hassanien Gomaa Islam Ibrahim George V. Belessiotis Adel A. Abdelwahab Mahmoud Ben Othman

In: *Handbook of Biodegradable Materials* , Chapter 1, Pages 1-37

Citations: N/A

DOI: 10.1007/978-3-030-83783-9_46-1

Design and Configuration of Microbial Fuel Cells 2022

Tooba Touqeer Waheed Miran Muhammad Waseem Mumtaz Hamid Mukhtar

In: *Book on Microbial Fuel Cells for Environmental Remediation*, 1st Edition, Chapter 3, Pages 25-39

Citations: N/A

DOI: 10.1007/978-981-19-2681-5_3

Bioelectrochemical Systems: Principles and Applications 2021

Divya Naradasu Xizi Long Akihiro Okamoto Waheed Miran

In: *Book on Bioelectrochemical Systems: Vol.1 Principles and Processes*, Chapter 1, Pages1-33

Citations: 7

DOI: 10.1007/978-981-15-6872-5_1

Electrochemical techniques and applications to characterize single- and multicellular electric microbial functions 2019

Junki Saito Muralidharan Murugan Xiao Deng Alexis Guionet Waheed Miran Akihiro Okamoto

In: *Book on Bioelectrochemical Interface Engineering*, Chapter 3, Pages 37-53

Citations: 4

DOI: 10.1002/9781119611103.ch3

Editorial Activities

N/A 2024
Edited Journal Issue / Proceeding / Book
Impact Factor: N/A

Microorganisms 2023
Reviewed Papers for Journals
Impact Factor: 4.926

Microorganisms 2022
Reviewed Papers for Journals
Impact Factor: 4.926

Minerals 2022
Reviewed Papers for Journals
Impact Factor: 2.818

Chemical Engineering Journal 2022
Reviewed Papers for Journals
Impact Factor: 15.1

Chemosphere 2022
Reviewed Papers for Journals
Impact Factor: 3.889

Sustainability 2022
Reviewed Papers for Journals
Impact Factor: 3.889

Applied Surface Science 2022
Reviewed Papers for Journals
Impact Factor: 7.392

Catalysts 2022
Reviewed Papers for Journals
Impact Factor: 4.501

Chemical Engineering Journal 2021
Reviewed Papers for Journals
Impact Factor: 16.777

Intellectual Property

Copyrights

Patents

Composition and Method of Manufacturing of Biodegradable Packaging from Sawdust and Corn Starch 2024
Status: Filed

Industrial Designs

POTENTIOSTAT 2023
Status: Filed

Trademarks