

Tayyaba Asim

Associate Professor

Institute of Environmental Sciences & Engineering

Email: tasim@iese.nust.edu.pk

Contact:



About

Dr. Tayyaba Asim is working as Associate Professor in the Institute of Environmental Sciences & Engineering. Dr. Tayyaba Asim has a PhD in Environmental Chemistry Nanotechnology. Dr. Tayyaba Asim has published 23 research articles & conference papers having a citation count of 330, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Environmental Chemistry Nanotechnology Quaid-i-Azam University , Pakistan	2002 - 2008
MPhil in Physical Chemistry Quaid-i-Azam University , Pakistan	2000 - 2002
MSc in Physical Chemistry Abasyn University, Islamabad Campus , Pakistan	1998 - 2000

Experience

Associate Professor Institute of Environmental Sciences & Engineering	2024- Present
Adjunct Faculty Department of Earth and Environmental Science, Bahria University, Islamabad , Bahria University E-9 Islamabad	2020 - 2021
Lecturer Department of Biochemistry, Quetta Institute of Medical Sciences , , Quetta Institute of Medical Sciences, Quetta	2015 - 2017
Adjunct Faculty Dept. of Chemistry, (LCWU), Lahore , Lahore College for Women University, Lahore	2014 - 2015
Assistant Professor (TTS) Dept. of Environmental Science, (LCWU), Lahore , Lahore College for Women University, Lahore	2014 - 2015
lecturer Syed Babar Ali, School of Science and Engineering, (SBASSE), Lahore University of Management Sciences (LUMS) , Syed Babar Ali, School of Science and Engineering, (SBASSE), Lahore University of Management Sciences (LUMS)	2009 - 2013

Research Articles

Synthesis and integration of sea urchin-like MnO₂-GCN nanocomposite with imprinted polymers for mass-sensitive detection of chloramphenicol in water <i>Tayyaba Asim Waheed S Khan Sadia Zafar Bajwa Aysha Shaheen Faryal Idrees Faheem K Butt Adnan Mujahid Adeel Afzal Sami Ullah</i> <i>Composites Communications</i> , Volume:56, Article Number 102357 Impact Factor: 7.700 Quartile: 1 DOI: https://doi.org/10.1016/j.coco.2025.102357	2025
Development of cholesterol imprinted polymer-based interfaces as smart sensors for detection of cholesterol in clinical samples <i>Hunza Hayat Fazli Rabbi Awan Ammara Aziz Romana Schirhagl Adeel Afzal Adnan Mujahid Arifa Jamil Tayyaba Asim Waheed S. Khan Sadia Z. Bajwa</i> <i>Journal of Materials Research</i> , Volume:39, Issue:3, Pages 459-470 Impact Factor: 2.900 Quartile: 3 Citations: 5 DOI: doi.org/10.1557/s43578-023-01241-0	2024
A mesh network of MnO nanowires and CNTs reinforced by molecularly imprinted structures for the selective detection of para-nitrophenol <i>Bushra Tehseen Asma Rehman Romana Schirhagl Nishat Ashraf Ata Ullah Tayyaba Asim Waheed S. Khan Sadia Zafar Bajwa</i> <i>Journal of Materials Research</i> , Volume:38, Issue:14, Page:3560-3571	2023

Impact Factor: N/A Quartile: 3 Citations: 2 DOI: https://ui.adsabs.harvard.edu/link_gateway/2023JMatR..38.3560T/doi:10.1557/s43578-023-01080-z	
Synthesis of BiOCl nanoplatelets as the dual interfaces for the detection of glutathione linked disease biomarkers and biocompatibility assessment in vitro against HCT cell lines model <i>Haleema Ijaz Rabisa Zia Ayesha Taj Farwah Jameel Faheem K. Butt Tayyaba Asim Nuzhat Jameel Wasim Abbas Mazhar Iqbal Sadia Zafar Bajwa Waheed S Khan</i> <i>Applied Nanoscience</i> , Volume:10, Issue:9, Pages 3569-3576 Impact Factor: 3.674 Quartile: 3 Citations: 9 DOI: https://doi.org/10.1007/s13204-020-01461-4	2020
Investigation of Novel Laccase Producing Fungal Specie and its Substrate Specificity by Wet and Dry Lab <i>Madiha Aftab Ali Nawaz Arifa Tahir Tayyaba Asim Y. Saleem</i> <i>Revista Mexicana de Ingeniería Química</i> , Volume 18(3), Pages 1233-1243 Impact Factor: 1.139 Quartile: 3 Citations: 2 DOI: 10.24275/uam/izt/dcbi/revmexingquim/2019v18n3/Aftab	2019
Green Synthesis of ZnO Hierarchical Microstructures by Cordia myxa and their Antibacterial Activity <i>Sadia Saif Arifa Tahir Tayyaba Asim Yongshen Chen Mujeeb Khan Syed Farooq Adil</i> <i>Saudi Journal of Biological Sciences</i> , Volume 26, Issue 7, Pages 1364-1371 Impact Factor: 2.802 Quartile: 1 Citations: 54 DOI: https://doi.org/10.1016/j.sjbs.2019.01.004	2019
In-situ synthesis of 3D ultra-small gold augmented graphene hybrid for highly sensitive electrochemical binding capability <i>Aysha Taj Ayesha Shaheen Jie Xu Pedr Estrela Adnan Mujahid Tayyaba Asim M. Zubair Iqbal Waheed S. Khan Sadia Zafar Bajwa</i> <i>Journal of Colloid and Interface Science</i> , Volume:553, Page:289-297 Impact Factor: 7.489 Quartile: 1 Citations: 10 DOI: https://doi.org/10.1016/j.jcis.2019.06.013	2019
Study of impact of acids and comparison of adsorption efficiency of Pb(II) from carbon and its modified nano-nickel coated version <i>Tayyaba Asim Riaz Ahmed M Shahid Ansari</i> <i>Water Science and Technology</i> , Volume:79, Issue:12, Page:2337-2344 Impact Factor: 1.638 Quartile: 3 DOI: https://doi.org/10.2166/wst.2019.235	2019
Alumina as environmentally stable adsorbent for the removal of dyesul black dye from waste water <i>Tayyaba Asim Mamoon Arifa Tahir Numrah Nisar Arslan Ali Aafia Sheikh</i> <i>Water Practice & Technology</i> , Volume:14, Issue:1, Page:62-70 Impact Factor: N/A Citations: 5 DOI: https://doi.org/10.2166/wpt.2018.110	2019
Polymeric nanocomposites of iron-oxide nanoparticles (lonps) synthesized using terminalia chebula leaf extract for enhanced adsorption of arsenic(v) from water <i>Sadia Saif Arifa Tahir Yongshen Chen Syed Farooq Adil Tayyaba Asim</i> <i>Colloids and Interfaces</i> , Volume:3, Issue:1, Article Number 17 Impact Factor: N/A Citations: 50 DOI: https://doi.org/10.3390/colloids3010017	2019
Optimization of Cultural Conditions for Enhanced Production of Laccase by Aspergillus Flavus Maf 0139 <i>Madiha Aftab Arifa Tahir Tayyaba Asim Irfana Maryam</i> <i>Biologia</i> , Volume 64(II), Pages 247-255 Impact Factor: N/A DOI: https://biolspk.com/biologia-june-2018-updated/	2018
Biodegradation of Remazol Black B by extracellular Fungal Laccase from Aspergillus Oryzae AM1101 <i>Madiha Aftab Arifa Tahir Tayyaba Asim</i> <i>International Journal of Biosciences</i> , Volume 13, No. 3, Pages 290-296 Impact Factor: N/A DOI: http://dx.doi.org/10.12692/ijb/13.3.290-296	2018

Elaboration of balance through adsorption of cadmium and selenium between water and underlying sediments via their analysis in drinking, wastewater and sediment samples <i>Riaz Ahmed M Shahid Ansari Tayyaba Asim</i> <i>Desalination and Water Treatment</i>, Volume:90, Pages 157-167 Impact Factor: 1.383 Quartile: 3 DOI: 10.5004/dwt.2017.21419	2017
Plant mediated green synthesis of CuO nanoparticles: Comparison of toxicity of engineered and plant mediated CuO nanoparticles towards <i>Daphnia magna</i> <i>Sadia Saif Arifa Tahir Yongshen Chen Tayyaba Asim</i> <i>Nanomaterials</i>, Volume:6, Issue:11, Article Number 205 Impact Factor: 3.553 Quartile: 1 Citations: 184 DOI: https://doi.org/10.3390/nano6110205	2016
Effect of nickel coating on carbon for adsorption of cadmium from aqueous solutions <i>Riaz Ahmed Tayyaba Asim Muhammad Shahid Ansari Muhammad Mansha Chaudhry</i> <i>The Canadian Journal of Chemical Engineering</i>, Volume:87, Issue:3, Pages 448-455 Impact Factor: 0.630 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1002/cjce.20178	2009
Sorption behaviour of lead(II) ions from aqueous solution onto Haro river sand <i>Riaz Ahmed Tayyaba Asim M. Shahid Ansari Syed Moosa Hasany</i> <i>Adsorption Science and Technology</i>, Volume:24, Issue:6, Page:475-486 Impact Factor: 0.557 Quartile: 3 DOI: https://doi.org/10.1260/026361706780154400	2006
Studies on sorption of cadmium (II) ions onto Haro river sand from aqueous media using radiotracer and voltammetric techniques <i>Riaz Ahmed Tayyaba Asim M Shahid Ansari Syed Moosa Hasany</i> <i>Radiochimica Acta</i>, Volume:94, Issue:8, Page:441-446 Impact Factor: 1.068 Quartile: 1 Citations: 7 DOI: https://doi.org/10.1524/RACT.2006.94.8.441	2006
Monitoring of Cadmium in Drinking Water by Voltammetry <i>Riaz Ahmed Tayyaba Asim M Shahid Ansari</i> <i>The Nucleus</i>, Volume 40(1-4), Pages 7-12 Impact Factor: N/A	2004

Conference Proceedings

Nickel coated carbon nanomaterial for the removal of heavy and toxic metals (Cd, Cu) from water and Wastewater <i>Tayyaba Asim Riaz Ahmed M Shahid Ansari</i> <i>Key Engineering Materials</i> , res.country(177,) Citations: N/A DOI: https://doi.org/10.4028/www.scientific.net/KEM.778.79	2017
Preparation and Characterization of Nano-nickel Graphite and Evaluation of its Catalytic Properties by Immobilization of Cadmium, Copper and Zinc <i>Tayyaba Asim Riaz Ahmed M. Shahid Ansari</i> <i>Symposium on Hydrogen and Fuel Cells</i> , res.country(177,) Citations: N/A DOI: Nil	2012
Preparation and Characterization of Carbon Supported Nano- Nickel and its Sorption Behavior for Zinc from Aqueous Solutions <i>Tayyaba Asim Riaz Ahmed M Shahid Ansari</i> <i>International Symposium of Advanced Materials (ISAM)</i> , res.country(177,) Citations: N/A DOI: https://doi.org/10.4028/www.scientific.net/KEM.510-511.271	2011
Preparation of Carbon Supported Nickel Catalyst And Its Adsorption Behaviour For Copper From Aqueous Solutions <i>Tayyaba Asim Riaz Ahmed M Shahid Ansari M Mansha Chaudhry</i> <i>The International Conference on Advancements in Process Engineering</i> , res.country(177,) Citations: N/A DOI: https://doi.org/10.71330/thenucleus.2009.968	2008

Book Chapters

Smartphone-based Biosensors for Healthcare <i>Aysha Shaheen Andleeb Anjum Qazalbash Maryum Noor M Arif Tayyaba Asim Waheed S Khan Sadia Zafar Bajwa</i> In: <i>Advanced Sensors for Smart Healthcare</i> , Chapter 24, Pages 387-409 Citations: N/A DOI: https://doi.org/10.1016/b978-0-443-24790-3.00025-9	2025
---	------

Editorial Activities

Journal of Environmental Chemical Engineering Reviewed Papers for Journals Impact Factor: 7.2	2024
Discover Applied Sciences Reviewed Papers for Journals Impact Factor: 2.4	2020
Journal of Nanoscience and Nanotechnology Applications (JNNA) Reviewed Papers for Journals Impact Factor: 3.1	2018