Tayyaba Asim

Associate Professor

Institute of Environmental Sciences & Engineering

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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 2002 - 2008
Quaid-i-Azam University , Pakistan

MPhil in Physical Chemistry 2000 - 2002
Quaid-i-Azam University , Pakistan

MSc in Physical Chemistry 1998 - 2000
Abasyn University, Islamabad Campus , Pakistan

Experience

Associate Professor 2024- Present
Institute of Environmental Sciences & Engineering

Adjunct Faculty 2020 - 2021
Department of Earth and Environmental Science, Bahria University, Islamabad , Bahria University E-9 Islamabad

Lecturer 2015 - 2017
Department of Biochemistry, Quetta Institute of Medical Sciences , , Quetta Institute of Medical Sciences, Quetta

Adjunct Faculty 2014 - 2015
Dept. of Chemistry, (LCWU), Lahore , Lahore College for Women University, Lahore

Assistant Professor (TTS) 2014 - 2015
Dept. of Environmental Science, (LCWU), Lahore , Lahore College for Women University, Lahore

lecturer 2009 - 2013
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)

Research Articles

Synthesis and integration of sea urchin-like MnO2-GCN nanocomposite with imprinted polymers for mass-sensitive detection of chloramphenicol in water 2025

Tayyaba Asim Waheed S Khan Sadia Zafar Bajwa Aysha Shaheen Faryal Idrees Faheem K Butt Adnan Mujahid Adeel Afzal Sami Ullah
Composites Communications, Volume:56, Article Number 102357

Impact Factor: 7.700 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.coco.2025.102357

Development of cholesterol imprinted polymer-based interfaces as smart sensors for detection of cholesterol in clinical samples 2024

Hunza Hayat Fazli Rabbi Awan Ammara Aziz Romana Schirhagl Adeel Afzal Adnan Mujahid Arifa Jamil Tayyaba Asim Waheed S. Khan Sadia Z. Bajwa
Journal of Materials Research, Volume:39, Issue:3, Pages 459-470

Impact Factor: 2.900 | **Quartile:** 3 | **Citations:** 5
DOI: doi.org/10.1557/s43578-023-01241-0

A mesh network of MnO nanowires and CNTs reinforced by molecularly imprinted structures for the selective detection of para-nitrophenol 2023

Bushra Tehseen Asma Rehman Romana Schirhagl Nishat Ashraf Ata Ullah Tayyaba Asim Waheed S. Khan Sadia Zafar Bajwa
Journal of Materials Research, Volume:38, Issue:14, Page:3560-3571

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 2020

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

Applied Nanoscience , 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

Investigation of Novel Laccase Producing Fungal Specie and its Substrate Specificity by Wet and Dry Lab 2019

Madiha Aftab Ali Nawaz Arifa Tahir Tayyaba Asim Y. Saleem

Revista Mexicana de Ingeniería Química, Volume 18(3), Pages 1233-1243

Impact Factor: 1.139 | **Quartile:** 3 | **Citations:** 2
DOI: 10.24275/uam/izt/dcbi/revmexingquim/2019v18n3/Aftab

Green Synthesis of ZnO Hierarchical Microstructures by Cordia myxa and their Antibacterial Activity 2019

Sadia Saif Arifa Tahir Tayyaba Asim Yongshen Chen Mujeeb Khan Syed Farooq Adil

Saudi Journal of Biological Sciences, 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

In-situ synthesis of 3D ultra-small gold augmented graphene hybrid for highly sensitive electrochemical binding capability 2019

Aysha Taj Ayesha Shaheen Jie Xu Pedr Estrela Adnan Mujahid Tayyaba Asim M. Zubair Iqbal Waheed S. Khan Sadia Zafar Bajwa

Journal of Colloid and Interface Science , Volume:553, Page:289-297

Impact Factor: 7.489 | **Quartile:** 1 | **Citations:** 10
DOI: https://doi.org/10.1016/j.jcis.2019.06.013

Study of impact of acids and comparison of adsorption efficiency of Pb(II) from carbon and its modified nano-nickel coated version 2019

Tayyaba Asim Riaz Ahmed M Shahid Ansari

Water Science and Technology , Volume:79, Issue:12, Page:2337-2344

Impact Factor: 1.638 | **Quartile:** 3
DOI: https://doi.org/10.2166/wst.2019.235

Alumina as environmentally stable adsorbent for the removal of diresul black dye from waste water 2019

Tayyaba Asim Mamoona Arifa Tahir Numrah Nisar Arslan Ali Aafia Sheikh

Water Practice & Technology , Volume:14, Issue:1, Page:62-70

Impact Factor: N/A | **Citations:** 5
DOI: https://doi.org/10.2166/wpt.2018.110

Polymeric nanocomposites of iron-oxide nanoparticles (Ionps) synthesized using terminalia chebula leaf extract for enhanced adsorption of arsenic(v) from water 2019

Sadia Saif Arifa Tahir Yongshen Chen Syed Farooq Adil Tayyaba Asim

Colloids and Interfaces , Volume:3, Issue:1, Article Number 17

Impact Factor: N/A | **Citations:** 50
DOI: https://doi.org/10.3390/colloids3010017

Optimization of Cultural Conditions for Enhanced Production of Laccase by Aspergillus Flavus Maf 0139 2018

Madiha Aftab Arifa Tahir Tayyaba Asim Irfana Maryam

Biologia , Volume 64(II), Pages 247-255

Impact Factor: N/A
DOI: https://biolspk.com/biologia-june-2018-updated/

Biodegradation of Remazol Black B by extracellular Fungal Laccase from Aspergillus Oryzae AM1101 2018

Madiha Aftab Arifa Tahir Tayyaba Asim

International Journal of Biosciences, Volume 13, No. 3, Pages 290-296

Impact Factor: N/A
DOI: http://dx.doi.org/10.12692/ijb/13.3.290-296

Elaboration of balance through adsorption of cadmium and selenium between water and underlying sediments via their analysis in drinking, wastewater and sediment samples 2017

Riaz Ahmed M Shahid Ansari Tayyaba Asim

Desalination and Water Treatment , Volume:90, Pages 157-167

Impact Factor: 1.383 | **Quartile:** 3

DOI: 10.5004/dwt.2017.21419

Plant mediated green synthesis of CuO nanoparticles: Comparison of toxicity of engineered and plant mediated CuO nanoparticles towards Daphnia magna 2016

Sadia Saif Arifa Tahir Yongshen Chen Tayyaba Asim

Nanomaterials , Volume:6, Issue:11, Article Number 205

Impact Factor: 3.553 | **Quartile:** 1 | **Citations:** 184

DOI: https://doi.org/10.3390/nano6110205

Effect of nickel coating on carbon for adsorption of cadmium from aqueous solutions 2009

Riaz Ahmed Tayyaba Asim Muhammad Shahid Ansari Muhammad Mansha Chaudhry

The Canadian Journal of Chemical Engineering, Volume:87, Issue:3, Pages 448-455

Impact Factor: 0.630 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.1002/cjce.20178

Sorption behaviour of lead(II) ions from aqueous solution onto Haro river sand 2006

Riaz Ahmed Tayyaba Asim M. Shahid Ansari Syed Moosa Hasany

Adsorption Science and Technology, Volume:24, Issue:6, Page:475-486

Impact Factor: 0.557 | **Quartile:** 3

DOI: https://doi.org/10.1260/026361706780154400

Studies on sorption of cadmium (II) ions onto Haro river sand from aqueous media using radiotracer and voltammetric techniques 2006

Riaz Ahmed Tayyaba Asim M Shahid Ansari Syed Moosa Hasany

Radiochimica Acta , 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

Monitoring of Cadmium in Drinking Water by Voltammetry 2004

Riaz Ahmed Tayyaba Asim M Shahid Ansari

The Nucleus , Volume 40(1-4), Pages 7-12

Impact Factor: N/A

Conference Proceedings

Nickel coated carbon nanomaterial for the removal of heavy and toxic metals (Cd, Cu) from water and Wastewater 2017

Tayyaba Asim Riaz Ahmed M Shahid Ansari

Key Engineering Materials , res.country(177,)

Citations: N/A

DOI: https://doi.org/10.4028/www.scientific.net/KEM.778.79

Preparation and Characterization of Nano-nickel Graphite and Evaluation of its Catalytic Properties by Immobilization of Cadmium, Copper and Zinc 2012

Tayyaba Asim Riaz Ahmed M. Shahid Ansari

Symposium on Hydrogen and Fuel Cells, res.country(177,)

Citations: N/A

DOI: Nil

Preparation and Characterization of Carbon Supported Nano- Nickel and its Sorption Behavior for Zinc from Aqueous Solutions 2011

Tayyaba Asim Riaz Ahmed M Shahid Ansari

International Symposium of Advanced Materials (ISAM), res.country(177,)

Citations: N/A

DOI: https://doi.org/10.4028/www.scientific.net/KEM.510-511.271

Preparation of Carbon Supported Nickel Catalyst And Its Adsorption Behaviour For Copper From Aqueous Solutions 2008

Tayyaba Asim Riaz Ahmed M Shahid Ansari M Mansha Chaudhry

The International Conference on Advancements in Process Engineering, res.country(177,)

Citations: N/A

DOI: https://doi.org/10.71330/thenucleus.2009.968

Book Chapters

Smartphone-based Biosensors for Healthcare 2025

Aysha Shaheen Andleeb Anjum Qazalbash Maryum Noor M Arif Tayyaba Asim Waheed S Khan Sadia Zafar Bajwa

In: *Advanced Sensors for Smart Healthcare*, Chapter 24, Pages 387-409

Citations: N/A

DOI: https://doi.org/10.1016/b978-0-443-24790-3.00025-9

Editorial Activities

Journal of Environmental Chemical Engineering 2024

Reviewed Papers for Journals

Impact Factor: 7.2

Discover Applied Sciences 2020

Reviewed Papers for Journals

Impact Factor: 2.4

Journal of Nanoscience and Nanotechnology Applications (JNNA) 2018

Reviewed Papers for Journals

Impact Factor: 3.1