Muhammad Ali Inam

Assistant Professor

Institute of Environmental Sciences & Engineering

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About

Dr. Muhammad Ali Inam is working as Assistant Professor in the Institute of Environmental Sciences & Engineering. Dr. Muhammad Ali Inam has a PhD in Environmental Engineering. Dr. Muhammad Ali Inam has published 41 research articles & conference papers having a citation count of 566, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Environmental Engineering Sung Kyun Kwan University , South Korea	2015 - 2019
BE in Environmental Engineering	2010 - 2014
NUST, Islamabad, Pakistan	

Experience

Assistant Professor Institute of Environmental Sciences & Engineering	2024- Present
Assistant Professor Institute of Environmental Sciences & Engineering	2023 - 2023
Assistant Professor Institute of Environmental Sciences & Engineering	2020 - 2024
Assistant Professor Institute of Environmental Sciences & Engineering	2019 - 2020

Awards

Professional Memberships

PEC Since 2014

Research Projects

National Projects

Adsorptive recovery of phosphate from eutrophic water using biowaste derived carbonaceous material and its feasibility in fertilizer use

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

International Projects

Research Articles

Phycocyanin as a sustainable future resource: A review on recent advancements, fundamental challenges, opportunities and applications

2025

2022

Haider Ali Rashid Iftikhar Muhammad Ali Inam Muhammad umer Abbas Sahar Saleem Faras ahmad Shahbaz Humayun Nadeem Aleena Tahir Muhammad Momin

Bioresource Technology Reports, Volume 31, Article Number 102215

Impact Factor: 4.300 | Quartile: 2

Journal of Water Process Engineering, Volume 55, Article Number: 104233

Impact Factor: 7 | Quartile: 1 | Citations: 14

Recent Progress in Selenium Remediation from Aqueous Systems: State-of-the-Art Technologies, 2025 Challenges, and Prospects Muhammad Ali Inam Muhammad Usman Rashid Iftikhar Mathias Ernst Svetlozar Velizarov Water, Volume:17, Issue:15, Article Number:2241, Pages:34 Impact Factor: 3.0 | Quartile: 2 DOI: https://doi.org/10.3390/w17152241 Highly efficient phosphate extraction from water using bio-composites of nano zero valent iron 2025 supported on orange peel powder (nZVI@OPP): performance evaluation and mechanistic insights Fahad Nadeem Muhammad Ali Inam Rashid Iftikhar Safiullah Gill Hira Amjad Environmental Science and Pollution Research, Volume 32, Pages 9809-9825 Impact Factor: N/A DOI: https://doi.org/10.1007/s11356-025-36311-9 Enhanced hexavalent chromium (VI) removal from water using nano zero valent iron modified orange 2025 peel powder biochar Safiullah Gill Muhammad Ali Inam Rashid Iftikhar Fahad Nadeem Hira Amjad Zubaah Khalid International Journal of Environmental Science and Technology, Pages 1-14 Impact Factor: 3.000 | Quartile: 2 DOI: https://doi.org/10.1007/s13762-025-06381-w 2024 Highly efficient adsorptive removal of phosphate using novel perovskite lanthanum ferrite/graphene oxide (LaFeO3-GO) hybrids from water Jawad Rauf Muhammad Ali Inam Rashid Iftikhar Hira Amjad Deedar Nabi Journal of Water Process Engineering, Volume 67, Article number 106158 Impact Factor: 6.300 | Quartile: 1 | Citations: 2 DOI: https://doi.org/10.1016/j.jwpe.2024.106158 2024 Comparative phosphate sorption and recovery potential of mono and bimetallic iron-lanthanum impregnated biochar derived via co-pyrolysis of sewage sludge and wheat straw: Highly effective phosphatic fertilizer Igra Irfan Muhammad Ali Inam Rashid Iftikhar Journal of Water Process Engineering, Volume 66, Article Number 106110 Impact Factor: 6.3 | Quartile: 1 | Citations: 4 DOI: https://doi.org/10.1016/j.jwpe.2024.106110 The Influence of Pyrolysis Temperature on the Performance of Cotton Stalk Biochar for Hexavalent 2024 **Chromium Removal from Wastewater** Usama Khalid Muhammad Ali Inam Water Air and Soil Pollution, Volume 235, Article Number 114, Pages: 19 Impact Factor: 2.9 | Quartile: 2 | Citations: 9 DOI: 10.1007/s11270-024-06922-y 2023 Adsorptive recovery of phosphate using iron functionalized biochar prepared via co-pyrolysis of wheat straw and sewage sludge Igra Irfan Muhammad Ali Inam Waleed Usmani Rashid Iftikhar Zaib Jahan Environmental Technology and Innovation, Volume 32, Article Number 103434 Impact Factor: 7.1 | Quartile: 1 | Citations: 14 DOI: https://doi.org/10.1016/j.eti.2023.103434 2023 Development of ZnO-GO-NiO membrane for removal of lead and cadmium heavy metal ions from wastewater Arslan Magbool Ameen Shahid Zaib Jahan Muhammad Bilal Khan Niazi Muhammad Ali Inam Ahmad M.Taefeek Emadeldin M Kamel Muhammad Saeed Chemosphere . Volume 338. Article Number 139622 Impact Factor: 8.8 | Quartile: 1 | Citations: 18 **DOI:** https://doi.org/10.1016/j.chemosphere.2023.139622 Efficient removal of hexavalent chromium Cr (VI) using magnesium-iron layered double hydroxide 2023 supported on orange peel (Mg-Fe LDH@OPP): A synthetic experimental and mechanism studies Waleed Usmani Muhammad Ali Inam Rashid Iftikhar Igra Irfan Rabia Adnan Muhammad Bilal Khan Niazi Rizwan Khan Muhammad Hassan

Removal of Nano-Zinc Oxide (nZnO) from Simulated Waters by C/F/S—Focusing on the Role of Synthetic Coating, Organic Ligand, and Solution Chemistry Rizwan Khan Muhammad Ali Inam Ick Tae Yeom Kang Hoon Lee Kashif Hussain Mangi Processes, Volume: 11, Issue:09, Article Number: 2604 Impact Factor: 3.5 Quartile: 2 DOI: 10.3390/pr11092604	2023
Competitive Removal of Antimony and Humic Acid by Ferric Chloride: Optimization of Coagulation Process Using Response Surface Methodology Muhammad Ali Inam Rizwan Khan Kang Hoon Lee Zaeem Bin Babar Ick Tae Yeom Water, Volume 15(9), Article Number 1676 Impact Factor: 3.530 Quartile: 2 Citations: 5 DOI: https://doi.org/10.3390/w15091676	2023
Synthesis and Characterization of Mesoporous Silica Templates (KIT-6, SBA-15) and Mesoporous Platinum Anand Prakash Nizamuddin Solangi Shafeeque Ahmed Wahocho Abdul Sami Channa Muhammad Ali Inam Shafqat Ali ECS Journal of Solid State Science and Technology, Volume 11, Number 8, Article Number 081001 Impact Factor: 2.483 Quartile: 3 Citations: 2 DOI: 10.1149/2162-8777/ac8374	2022
Platinum on Oxidized Graphene Sheets: A Bifunctional Electrocatalyst for Hydrogen Oxidation Reaction and Methanol Oxidation Reaction Anand Prakash Raj Kumar Irfan Ahmed Abbasi Junejo Aurangzeb Muhammad Ali Inam Rimsha Larik Rizwan Khan ECS Journal of Solid State Science and Technology, Volume 11, Issue 7, Article Number 071009 Impact Factor: 2.483 Quartile: 3 Citations: 1 DOI: 10.1149/2162-8777/ac801c	2022
Synthesis of Pt Decorated ZIF-67-Derived Co-N-C Catalysts with Low Pt Contents and Increased Performance for Oxygen Evolution Reactions Anand Prakash Nizamuddin Solangi Junejo Aurangzeb Irfan Ahmed Abbasi Muhammad Ali Inam Suhail Ahmed Soomro ECS Journal of Solid State Science and Technology, Volume 11, Issue 7, Article Number 071007 Impact Factor: 2.483 Quartile: 3 Citations: 1 DOI: 10.1149/2162-8777/ ac7dc5	2022
Efficacy of Continuous Flow Reactors for Biological Treatment of 1,4-Dioxane Contaminated Textile Wastewater Using a Mixed Culture Kang Hoon Lee Imtiaz Afzal Khan Muhammad Ali Inam Rizwan Khan Young Min Wie Ick Tae Yeom Fermentation, Volume 8(4), Article Number 143 Impact Factor: 3.975 Quartile: 2 Citations: 10 DOI: https://doi.org/10.3390/fermentation8040143	2022
Coagulation Behavior of Antimony Oxyanions in Water: Influence of pH, Inorganic and Organic Matter on the Physicochemical Characteristics of Iron Precipitates Muhammad Ali Inam Kang Hoon Lee Hira Lal Soni Kashif Hussain Mangi Abdul Sami Channa Rizwan Khan Young Min Wie Ki Gang Lee Molecules, Volume 27(5), Article Number 1663 Impact Factor: 4.411 Quartile: 2 Citations: 3 DOI: doi.org/10.3390/molecules27051663	2022
Use of ballasted flocculation (BF) sludge for the manufacturing of lightweight aggregates Muhammad Ali Inam Kang Hoon Lee Muhammad Qasim Ki Gang Lee Imtiaz Afzal Khan Rizwan Khan Young Min Wie Journal of Environmental Management, Volume 305, Article Number 114379 Impact Factor: 6.789 Quartile: 1 Citations: 8 DOI: 10.1016/j.jenvman.2021.114379	2022
Enhanced removal of phosphate using pomegranate peel-modified nickel-lanthanum hydroxide Muhammad Ali Inam Muhammad Akram Baoyu Gao Jingwen Pan Rizwan Khan Xing Xu Kangying Guo Qinyan Yue Science of The Total Environment, Volume 809, Article Number: 151181 Impact Factor: 7.963 Quartile: 1 Citations: 8 DOI: 0.1016/j.scitotenv.2021.151181	2022
Adsorption Capacities of Iron Hydroxide for Arsenate and Arsenite Removal from Water by Chemical Coagulation: Kinetics Thermodynamics and Equilibrium Studies	2021

Muhammad Ali Inam Rizwan Khan Kang Hoon Lee Muhammad Akram Zameer Ahmed Ki Gang Lee Young Min Wie

Molecules. Volume 26(22). Article Number 7046 Impact Factor: 4.411 | Quartile: 2 | Citations: 14 DOI: https://doi.org/10.3390/molecules26227046 Synergetic Effect of Organic Flocculant and Montmorillonite Clay on the Removal of nano-CuO by 2021 Coagulation-Flocculation-Sedimentation Process Muhammad Ali Inam Rizwan Khan Kang Hoon Lee Abdul Sami Channa Mukhtiar Ali Mallah Young Min Wie Mahmood Nabi Abbasi Nanomaterials, Volume 11(10), Article Number 2753 Impact Factor: 5.076 | Quartile: 2 | Citations: 4 **DOI:** https://doi.org/10.3390/nano11102753 Removal of Arsenic Oxyanions from Water by Ferric Chloride—Optimization of Process Conditions 2021 and Implications for Improving Coagulation Performance Muhammad Ali Inam Rizwan Khan Kang Hoon Lee Young Min Wie International Journal of Environmental Research and Public Health, Volume 18(18), Article Number 9812 Impact Factor: 4.614 | Quartile: 1 | Citations: 9 **DOI:** doi.org/10.3390/ijerph18189812 Removal of Tannic Acid Stabilizes CuO Nanoparticles from Aqueous Media by PAFC: Effect of Process 2021 **Conditions and Water Chemistry** Rizwan Khan Muhammad Ali Inam Kang Hoon Lee Molecules, Volume 26(18), Article Number 5615 Impact Factor: 4.411 | Quartile: 2 | Citations: 1 DOI: https://doi.org/10.3390/molecules26185615 Kinetic and isothermal sorption of antimony oxyanions onto iron hydroxide during water treatment by 2021 coagulation process Muhammad Ali Inam Rizwan Khan Muhammad Waleed Inam Ick Tae Yeom Journal of Water Process Engineering, Volume 41, Article Number 102050 Impact Factor: 7.340 | Quartile: 1 | Citations: 25 **DOI:** https://doi.org/10.1016/j.jwpe.2021.102050 Optimization of Antimony Removal by Coagulation-Flocculation-Sedimentation Process Using 2021 Response Surface Methodology Muhammad Ali Inam Rizwan Khan Ick Tae Yeom Abdul Salam Buller Muhammad Akram Muhammad Waleed Inam Processes, Volume 9(1), Article Number 117 Impact Factor: 3.352 | Quartile: 2 | Citations: 21 DOI: https://doi.org/10.3390/pr9010117 Adsorptive removal of phosphate by the bimetallic hydroxide nanocomposites embedded in 2020 pomegranate peel Muhammad Akram Xing Xu Baoyu Gao Qinyan Yue Shang Yanan Rizwan Khan Muhammad Akram Xing Xu Baoyu Gao Qinyan Yue Shang Yanan Rizwan Khan Muhammad Ali Inam Journal of Environmental Sciences, Volume 91, Pages 189-198 Impact Factor: 3.556 | Quartile: 1 | Citations: 38 **DOI:** https://doi.org/10.1016/j.jes.2020.02.005 Effect of Dissolved Organic Matter on Agglomeration and Removal of CuO Nanoparticles by 2019 Coagulation Rizwan Khan Muhammad Ali Inam Muhammad Akram Ahmed Uddin Sarfaraz Khan Ick Tae Yeom Processes, Volume 7 Issue 7 Article Number 455 Impact Factor: 2.753 | Quartile: 2 DOI: 10.3390/pr707045 Effect of Water Chemistry on Antimony Removal by Chemical Coagulation: Implications of ζ-Potential 2019 and Size of Precipitates Muhammad Ali Inam Rizwan Khan Muhammad Akram Sarfaraz Khan Ick Tae Yeom International Journal of Molecular Sciences, Volume 20, Issue 12 Impact Factor: 4.556 | Quartile: 1 | Citations: 16 DOI: 10.3390/ijms20122945 Coagulation and Dissolution of CuO Nanoparticles in the Presence of Dissolved Organic Matter Under 2019

Different pH Values

Rizwan Khan Muhammad Ali Inam Saba Zam Zam Muhammad Akram Sookyo Shin Ick Tae Yeom

Sustainability, Volume 11, Issue 10, Article Number 2825

Impact Factor: 2.576 | Quartile: 2 | Citations: 24

DOI: 10.3390/su11102825

The Influence of Ionic and Nonionic Surfactants on the Colloidal Stability and Removal of CuO

Nanoparticles from Water by Chemical Coagulation

Rizwan Khan Muhammad Ali Inam Sarfaraz Khan Andrea Navarro Jiménez Du Ri Park Ick Tae Yeom

International Journal of Environmental Research and Public Health, Volume 16 Issue 7 Article Number 1260

Impact Factor: 2.849 | Quartile: 1 | Citations: 22

DOI: 10.3390/ijerph16071260

Interaction of Arsenic Species with Organic Ligands: Competitive Removal from Water by Coagulation-

2019

2019

Flocculation-Sedimentation (C/F/S)

Muhammad Ali Inam Rizwan Khan Muhammad Akram Sarfaraz Khan Du Ri Park Ick Tae Yeom

Molecules, Volume 24, Issue 8, Article Number 1619 Impact Factor: 3.267 | Quartile: 2 | Citations: 23

DOI: 10.3390/molecules24081619

Complexation of Antimony with Natural Organic Matter: Performance Evaluation during Coagulation-

Flocculation Process

Muhammad Ali Inam Rizwan Khan Du Ri Park Sarfaraz Khan Ahmed Uddin Ick Tae Yeom

International Journal of Environmental Research and Public Health, Volume 16 Issue 7 Article Number 1092

Impact Factor: 2.849 | Quartile: 1 | Citations: 35

DOI: 10.3390/ijerph16071092

Interaction between Persistent Organic Pollutants and ZnO NPs in Synthetic and Natural Waters

2019

2019

2019

2018

2018

2018

Rizwan Khan Muhammad Ali Inam Sarfaraz Khan Du Ri Park Ick Tae Yeom

Nanomaterials, Volume 9 Issue 3 Article Number 472 Impact Factor: 4.324 | Quartile: 2 | Citations: 15

DOI: 10.3390/nano9030472

The Removal of CuO Nanoparticles from Water by Conventional Treatment C/F/S: The Effect of pH and

Natural Organic Matter

Rizwan Khan Muhammad Ali Inam Du Ri Park Sarfaraz Khan Muhammad Akram Ick Tae Yeom

Molecules, Volume 24, Issue 5, Article Number 914 Impact Factor: 3.267 | Quartile: 2 | Citations: 23

DOI: 10.3390/molecules24050914

Removal of ZnO Nanoparticles from Natural Waters by Coagulation-Flocculation Process: Influence of

Surfactant Type on Aggregation, Dissolution and Colloidal Stability

Rizwan Khan Muhammad Ali Inam Muhammad Mazhar Iqbal, Muhammad Shoaib Du Ri Park Kang Hoon Lee Sookyo Shin Sarfaraz Khan Ick Tae Yeom

Sustainability, Volume 11, Issue 1, Article Number 17 Impact Factor: 2.576 | Quartile: 2 | Citations: 28

DOI: 10.3390/su11010017

Influence of pH and Contaminant Redox Form on the Competitive Removal of Arsenic and Antimony

from Aqueous Media by Coagulation

Muhammad Ali Inam Rizwan Khan Du Ri Park Babar Aijaz Ali Ahmed Uddin Ick Tae Yeom

Minerals, Volume: 8 Issue: 12 Article Number: 574 Impact Factor: 2.250 | Quartile: 2 | Citations: 33

DOI: 10.3390/min8120574

Influence of Organic Ligands on the Colloidal Stability and Removal of ZnO Nanoparticles from

Synthetic Waters by Coagulation

Rizwan Khan Muhammad Ali Inam Du Ri Park Saba Zam Zam Sookyo Shin Sarfaraz Khan Muhammad Akram Ick Tae Yeom

Processes, Volume 6, Issue 9, Article Number 170 Impact Factor: 1.963 | Quartile: 2 | Citations: 26

DOI: 10.3390/pr6090170

Taguchi Orthogonal Array Dataset for the Effect of Water Chemistry on Aggregation of ZnO

Nanoparticles

Rizwan Khan Muhammad Ali Inam Du Ri Park Saba Zam Zam Ick Tae Yeom

Data, Volume 3, Issue 2, Article Number 21

Impact Factor: 0 | Citations: 10 DOI: 10.3390/data3020021

2019

Assessment of Key Environmental Factors Influencing the Sedimentation and Aggregation Behavior of	2018
Zinc Oxide Nanoparticles in Aquatic Environment	
Rizwan Khan Muhammad Ali Inam Saba Zam Zam Du Ri Park Ick Tae Yeom	
Water, Volume 10, Issue 5, Article Number 660	
Impact Factor: 2.524 Quartile: 2 Citations: 41 DOI: 10.3390/w10050660	
DOI: 10.3390/W10050660	
Removal of Sb(III) and Sb(V) by Ferric Chloride Coagulation: Implications of Fe Solubility	2018
Muhammad Ali Inam Rizwan Khan Du Ri Park Yong-Woo Lee Ick Tae Yeom	
Water, Volume 10, Issue 4, Article Number 418	
Impact Factor: 2.524 Quartile: 2 Citations: 57	
DOI: 10.3390/w10040418	
Editorial Activities	
Water	2024
Reviewed Papers for Journals	
Impact Factor: 3.4	
Water	2024
Reviewed Papers for Journals Impact Factor: 3.4	
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Chemical Engineering Journal	2024
Reviewed Papers for Journals	
Impact Factor: 15.1	
ACS ES&T Water	2024
Reviewed Papers for Journals	
Impact Factor: 5.3	
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Impact Factor: 3.4	
Advances in Environmental and Engineering Research	2024
Reviewed Papers for Journals	
Impact Factor: N/A	
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Reviewed Papers for Journals	
Impact Factor: N/A	
International Journal of Environmental Research and Public Health	2024
Reviewed Papers for Journals	
Impact Factor: N/A	
ADSORPTION SCIENCE AND TECHNOLOGY	2023
Reviewed Papers for Journals	2020
Impact Factor: 2.9	
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Impact Factor: 3.4	
Sustainability	2023
Reviewed Papers for Journals	2020
Impact Factor: 3.889	
Processes	2023
Reviewed Papers for Journals	

Impact	Factor:	3.352

International Journal of Environmental Research and Public Health Reviewed Papers for Journals Impact Factor: N/A	2023
Environmental and Experimental Botany Reviewed Papers for Journals Impact Factor: 6.028	2023
Sustainability- Reviewed Papers for Journals Impact Factor: 3.889	2023
Reviewed Papers for Journals Impact Factor: N/A	2023
Reviewed Papers for Journals Impact Factor: N/A	2023
International Journal of Environmental Research and Public Health Reviewed Papers for Journals Impact Factor: 4.614	2023
Sustainability Reviewed Papers for Journals Impact Factor: 3.889	2023
Sustainability Reviewed Papers for Journals Impact Factor: 3.889	2022
Journal of Polymers and the Environment Reviewed Papers for Journals Impact Factor: Nil	2022
Desalination and Water Treatment Reviewed Papers for Journals Impact Factor: 1.273	2022
Journal of Marine Science and Engineering Reviewed Papers for Journals Impact Factor: 2.744	2022
Catalysts Reviewed Papers for Journals Impact Factor: 4.501	2022
Water Environment Research Reviewed Papers for Journals Impact Factor: 3.306	2022
Colloid and Polymer Science Reviewed Papers for Journals Impact Factor: 2.434	2022
Environmental Processes-An International Journal Reviewed Papers for Journals Impact Factor: 2.223	2022
Water Reviewed Papers for Journals Impact Factor: 3.530	2022
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