

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 567, 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 NUST, Islamabad , Pakistan	2010 - 2014

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
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Research Projects

National Projects	
Adsorptive recovery of phosphate from eutrophic water using biowaste derived carbonaceous material and its feasibility in fertilizer use	2022
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
<i>Haider Ali Rashid Iftikhar Muhammad Ali Inam Muhammad umer Abbas Sahar Saleem Faras ahmad Shahbaz Humayun Nadeem Aleena Tahir Muhammad Momin</i>	
<i>Bioresource Technology Reports</i> , Volume 31, Article Number 102215	
Impact Factor: 4.300 Quartile: 2	

DOI: https://doi.org/10.1016/j.biteb.2025.102215	
Recent Progress in Selenium Remediation from Aqueous Systems: State-of-the-Art Technologies, Challenges, and Prospects	2025
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 supported on orange peel powder (nZVI@OPP): performance evaluation and mechanistic insights	2025
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 peel powder biochar	2025
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	
Highly efficient adsorptive removal of phosphate using novel perovskite lanthanum ferrite/graphene oxide (LaFeO₃-GO) hybrids from water	2024
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	
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	2024
Iqra 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 Chromium Removal from Wastewater	2024
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	
Adsorptive recovery of phosphate using iron functionalized biochar prepared via co-pyrolysis of wheat straw and sewage sludge	2023
Iqra 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: 15	
DOI: https://doi.org/10.1016/j.eti.2023.103434	
Development of ZnO-GO-NiO membrane for removal of lead and cadmium heavy metal ions from wastewater	2023
Arslan Maqbool Ameen Shahid Zaib Jahan Muhammad Bilal Khan Niazi Muhammad Ali Inam Ahmad M.Taafeek Emadeldin M Kamel Muhammad Saeed Akhtar 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 supported on orange peel (Mg-Fe LDH@OPP): A synthetic experimental and mechanism studies	2023
Waleed Usmani Muhammad Ali Inam Rashid Iftikhar Iqra Irfan Rabia Adnan Muhammad Bilal Khan Niazi Rizwan Khan Muhammad Hassan Journal of Water Process Engineering , Volume 55, Article Number: 104233	
Impact Factor: 7 Quartile: 1 Citations: 14	

DOI: 10.1016/j.jwpe.2023.104233

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

2023

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

Competitive Removal of Antimony and Humic Acid by Ferric Chloride: Optimization of Coagulation Process Using Response Surface Methodology

2023

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>

Synthesis and Characterization of Mesoporous Silica Templates (KIT-6, SBA-15) and Mesoporous Platinum

2022

Anand Prakash Nizamuddin Solangi Shafeeqe 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

Platinum on Oxidized Graphene Sheets: A Bifunctional Electrocatalyst for Hydrogen Oxidation Reaction and Methanol Oxidation Reaction

2022

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

Synthesis of Pt Decorated ZIF-67-Derived Co-N-C Catalysts with Low Pt Contents and Increased Performance for Oxygen Evolution Reactions

2022

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

Efficacy of Continuous Flow Reactors for Biological Treatment of 1,4-Dioxane Contaminated Textile Wastewater Using a Mixed Culture

2022

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>

Coagulation Behavior of Antimony Oxyanions in Water: Influence of pH, Inorganic and Organic Matter on the Physicochemical Characteristics of Iron Precipitates

2022

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

Use of ballasted flocculation (BF) sludge for the manufacturing of lightweight aggregates

2022

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

Enhanced removal of phosphate using pomegranate peel-modified nickel-lanthanum hydroxide

2022

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

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

<p><i>Molecules</i> , Volume 26(22), Article Number 7046</p> <p>Impact Factor: 4.411 Quartile: 2 Citations: 14</p> <p>DOI: https://doi.org/10.3390/molecules26227046</p>	
<p>Synergetic Effect of Organic Flocculant and Montmorillonite Clay on the Removal of nano-CuO by Coagulation-Flocculation-Sedimentation Process</p> <p><i>Muhammad Ali Inam Rizwan Khan Kang Hoon Lee Abdul Sami Channa Mukhtiar Ali Mallah Young Min Wie Mahmood Nabi Abbasi</i></p> <p><i>Nanomaterials</i> , Volume 11(10), Article Number 2753</p> <p>Impact Factor: 5.076 Quartile: 2 Citations: 4</p> <p>DOI: https://doi.org/10.3390/nano11102753</p>	2021
<p>Removal of Arsenic Oxyanions from Water by Ferric Chloride—Optimization of Process Conditions and Implications for Improving Coagulation Performance</p> <p><i>Muhammad Ali Inam Rizwan Khan Kang Hoon Lee Young Min Wie</i></p> <p><i>International Journal of Environmental Research and Public Health</i>, Volume 18(18), Article Number 9812</p> <p>Impact Factor: 4.614 Quartile: 1 Citations: 9</p> <p>DOI: doi.org/10.3390/ijerph18189812</p>	2021
<p>Removal of Tannic Acid Stabilizes CuO Nanoparticles from Aqueous Media by PAFC: Effect of Process Conditions and Water Chemistry</p> <p><i>Rizwan Khan Muhammad Ali Inam Kang Hoon Lee</i></p> <p><i>Molecules</i> , Volume 26(18), Article Number 5615</p> <p>Impact Factor: 4.411 Quartile: 2 Citations: 1</p> <p>DOI: https://doi.org/10.3390/molecules26185615</p>	2021
<p>Kinetic and isothermal sorption of antimony oxyanions onto iron hydroxide during water treatment by coagulation process</p> <p><i>Muhammad Ali Inam Rizwan Khan Muhammad Waleed Inam Ick Tae Yeom</i></p> <p><i>Journal of Water Process Engineering</i>, Volume 41, Article Number 102050</p> <p>Impact Factor: 7.340 Quartile: 1 Citations: 25</p> <p>DOI: https://doi.org/10.1016/j.jwpe.2021.102050</p>	2021
<p>Optimization of Antimony Removal by Coagulation-Flocculation-Sedimentation Process Using Response Surface Methodology</p> <p><i>Muhammad Ali Inam Rizwan Khan Ick Tae Yeom Abdul Salam Buller Muhammad Akram Muhammad Waleed Inam</i></p> <p><i>Processes</i> , Volume 9(1), Article Number 117</p> <p>Impact Factor: 3.352 Quartile: 2 Citations: 21</p> <p>DOI: https://doi.org/10.3390/pr9010117</p>	2021
<p>Adsorptive removal of phosphate by the bimetallic hydroxide nanocomposites embedded in pomegranate peel</p> <p><i>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</i></p> <p><i>Journal of Environmental Sciences</i> , Volume 91, Pages 189-198</p> <p>Impact Factor: 3.556 Quartile: 1 Citations: 38</p> <p>DOI: https://doi.org/10.1016/j.jes.2020.02.005</p>	2020
<p>Effect of Dissolved Organic Matter on Agglomeration and Removal of CuO Nanoparticles by Coagulation</p> <p><i>Rizwan Khan Muhammad Ali Inam Muhammad Akram Ahmed Uddin Sarfaraz Khan Ick Tae Yeom</i></p> <p><i>Processes</i> , Volume 7 Issue 7 Article Number 455</p> <p>Impact Factor: 2.753 Quartile: 2</p> <p>DOI: 10.3390/pr707045</p>	2019
<p>Effect of Water Chemistry on Antimony Removal by Chemical Coagulation: Implications of ζ-Potential and Size of Precipitates</p> <p><i>Muhammad Ali Inam Rizwan Khan Muhammad Akram Sarfaraz Khan Ick Tae Yeom</i></p> <p><i>International Journal of Molecular Sciences</i>, Volume 20 , Issue 12</p> <p>Impact Factor: 4.556 Quartile: 1 Citations: 16</p> <p>DOI: 10.3390/ijms20122945</p>	2019
<p>Coagulation and Dissolution of CuO Nanoparticles in the Presence of Dissolved Organic Matter Under Different pH Values</p> <p><i>Rizwan Khan Muhammad Ali Inam Saba Zam Zam Muhammad Akram Sookyo Shin Ick Tae Yeom</i></p> <p><i>Sustainability</i> , Volume 11, Issue 10, Article Number 2825</p>	2019

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 <i>Rizwan Khan Muhammad Ali Inam Sarfaraz Khan Andrea Navarro Jiménez Du Ri Park Ick Tae Yeom</i> <i>International Journal of Environmental Research and Public Health</i> , Volume 16 Issue 7 Article Number 1260 Impact Factor: 2.849 Quartile: 1 Citations: 22 DOI: 10.3390/ijerph16071260	2019
Interaction of Arsenic Species with Organic Ligands: Competitive Removal from Water by Coagulation-Flocculation-Sedimentation (C/F/S) <i>Muhammad Ali Inam Rizwan Khan Muhammad Akram Sarfaraz Khan Du Ri Park Ick Tae Yeom</i> <i>Molecules</i> , Volume 24, Issue 8, Article Number 1619 Impact Factor: 3.267 Quartile: 2 Citations: 23 DOI: 10.3390/molecules24081619	2019
Complexation of Antimony with Natural Organic Matter: Performance Evaluation during Coagulation-Flocculation Process <i>Muhammad Ali Inam Rizwan Khan Du Ri Park Sarfaraz Khan Ahmed Uddin Ick Tae Yeom</i> <i>International Journal of Environmental Research and Public Health</i> , Volume 16 Issue 7 Article Number 1092 Impact Factor: 2.849 Quartile: 1 Citations: 35 DOI: 10.3390/ijerph16071092	2019
Interaction between Persistent Organic Pollutants and ZnO NPs in Synthetic and Natural Waters <i>Rizwan Khan Muhammad Ali Inam Sarfaraz Khan Du Ri Park Ick Tae Yeom</i> <i>Nanomaterials</i> , Volume 9 Issue 3 Article Number 472 Impact Factor: 4.324 Quartile: 2 Citations: 15 DOI: 10.3390/nano9030472	2019
The Removal of CuO Nanoparticles from Water by Conventional Treatment C/F/S: The Effect of pH and Natural Organic Matter <i>Rizwan Khan Muhammad Ali Inam Du Ri Park Sarfaraz Khan Muhammad Akram Ick Tae Yeom</i> <i>Molecules</i> , Volume 24, Issue 5, Article Number 914 Impact Factor: 3.267 Quartile: 2 Citations: 23 DOI: 10.3390/molecules24050914	2019
Removal of ZnO Nanoparticles from Natural Waters by Coagulation- Flocculation Process: Influence of Surfactant Type on Aggregation, Dissolution and Colloidal Stability <i>Rizwan Khan Muhammad Ali Inam Muhammad Mazhar Iqbal, Muhammad Shoaib Du Ri Park Kang Hoon Lee Sookyo Shin Sarfaraz Khan Ick Tae Yeom</i> <i>Sustainability</i> , Volume 11, Issue 1, Article Number 17 Impact Factor: 2.576 Quartile: 2 Citations: 28 DOI: 10.3390/su11010017	2019
Influence of pH and Contaminant Redox Form on the Competitive Removal of Arsenic and Antimony from Aqueous Media by Coagulation <i>Muhammad Ali Inam Rizwan Khan Du Ri Park Babar Aijaz Ali Ahmed Uddin Ick Tae Yeom</i> <i>Minerals</i> , Volume: 8 Issue: 12 Article Number: 574 Impact Factor: 2.250 Quartile: 2 Citations: 33 DOI: 10.3390/min8120574	2018
Influence of Organic Ligands on the Colloidal Stability and Removal of ZnO Nanoparticles from Synthetic Waters by Coagulation <i>Rizwan Khan Muhammad Ali Inam Du Ri Park Saba Zam Zam Sookyo Shin Sarfaraz Khan Muhammad Akram Ick Tae Yeom</i> <i>Processes</i> , Volume 6, Issue 9, Article Number 170 Impact Factor: 1.963 Quartile: 2 Citations: 26 DOI: 10.3390/pr6090170	2018
Taguchi Orthogonal Array Dataset for the Effect of Water Chemistry on Aggregation of ZnO Nanoparticles <i>Rizwan Khan Muhammad Ali Inam Du Ri Park Saba Zam Zam Ick Tae Yeom</i> <i>Data</i> , Volume 3, Issue 2, Article Number 21 Impact Factor: 0 Citations: 10 DOI: 10.3390/data3020021	2018

Assessment of Key Environmental Factors Influencing the Sedimentation and Aggregation Behavior of Zinc Oxide Nanoparticles in Aquatic Environment <i>Rizwan Khan Muhammad Ali Inam Saba Zam Zam Du Ri Park Ick Tae Yeom</i> <i>Water</i> , Volume 10, Issue 5, Article Number 660 Impact Factor: 2.524 Quartile: 2 Citations: 41 DOI: 10.3390/w10050660	2018
Removal of Sb(III) and Sb(V) by Ferric Chloride Coagulation: Implications of Fe Solubility <i>Muhammad Ali Inam Rizwan Khan Du Ri Park Yong-Woo Lee Ick Tae Yeom</i> <i>Water</i> , Volume 10, Issue 4, Article Number 418 Impact Factor: 2.524 Quartile: 2 Citations: 57 DOI: 10.3390/w10040418	2018

Editorial Activities

Water Reviewed Papers for Journals Impact Factor: 3.4	2024
Water Reviewed Papers for Journals Impact Factor: 3.4	2024
Chemical Engineering Journal Reviewed Papers for Journals Impact Factor: 15.1	2024
ACS ES&T Water Reviewed Papers for Journals Impact Factor: 5.3	2024
Water Reviewed Papers for Journals Impact Factor: 3.4	2024
Advances in Environmental and Engineering Research Reviewed Papers for Journals Impact Factor: N/A	2024
Reviewed Papers for Journals Impact Factor: N/A	2024
International Journal of Environmental Research and Public Health Reviewed Papers for Journals Impact Factor: N/A	2024
ADSORPTION SCIENCE AND TECHNOLOGY Reviewed Papers for Journals Impact Factor: 2.9	2023
Gels Reviewed Papers for Journals Impact Factor: 4.6	2023
Water Reviewed Papers for Journals Impact Factor: 3.4	2023
Water Reviewed Papers for Journals Impact Factor: 3.4	2023
Sustainability Reviewed Papers for Journals Impact Factor: 3.889	2023
Processes Reviewed Papers for Journals	2023

Impact Factor: 3.352	
International Journal of Environmental Research and Public Health	2023
Reviewed Papers for Journals	
Impact Factor: N/A	
Environmental and Experimental Botany	2023
Reviewed Papers for Journals	
Impact Factor: 6.028	
Sustainability-	2023
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	
International Journal of Environmental Research and Public Health	2023
Reviewed Papers for Journals	
Impact Factor: 4.614	
Sustainability	2023
Reviewed Papers for Journals	
Impact Factor: 3.889	
Sustainability	2022
Reviewed Papers for Journals	
Impact Factor: 3.889	
Journal of Polymers and the Environment	2022
Reviewed Papers for Journals	
Impact Factor: Nil	
Desalination and Water Treatment	2022
Reviewed Papers for Journals	
Impact Factor: 1.273	
Journal of Marine Science and Engineering	2022
Reviewed Papers for Journals	
Impact Factor: 2.744	
Catalysts	2022
Reviewed Papers for Journals	
Impact Factor: 4.501	
Water Environment Research	2022
Reviewed Papers for Journals	
Impact Factor: 3.306	
Colloid and Polymer Science	2022
Reviewed Papers for Journals	
Impact Factor: 2.434	
Environmental Processes-An International Journal	2022
Reviewed Papers for Journals	
Impact Factor: 2.223	
Water	2022
Reviewed Papers for Journals	
Impact Factor: 3.530	
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Reviewed Papers for Journals Impact Factor: 2.262	2022
Reviewed Papers for Journals Impact Factor: 3.390	2022
Reviewed Papers for Journals Impact Factor: 3.251	2022
Reviewed Papers for Journals Impact Factor: 3.251	2021
Reviewed Papers for Journals Impact Factor: 3.390	2021
Reviewed Papers for Journals Impact Factor: 2.679	

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