

Hassan Anwer

Assistant Professor

Institute of Environmental Sciences & Engineering

Email: hanwer@iese.nust.edu.pk

Contact:



About

Dr. Hassan Anwer is working as Assistant Professor in the Institute of Environmental Sciences & Engineering. Dr. Hassan Anwer has a PhD in Environmental Engineering. Dr. Hassan Anwer has published 25 research articles & conference papers having a citation count of 1130, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Environmental Engineering Hanyang University , South Korea	2016 - 2020
BSc in Textile Engineering National Textile University Faisalabad , Pakistan	2009 - 2013

Experience

Assistant Professor Institute of Environmental Sciences & Engineering	2024- Present
Assistant Professor Institute of Environmental Sciences & Engineering	2022 - 2024
Assistant Professor Institute of Environmental Sciences & Engineering	2021 - 2022
Post-doctoral researcher Hanyang University , Hanyang University, Seoul, South Korea	2020 - 2020
Assistant manager Sapphire Finishing Mills, , Sapphire Finishing Mills, Lahore, Pakistan	2013 - 2015

Research Projects

National Projects

Development of a Slow-Release Fertilizer to Minimize the Nutrient Loss and Environmental Impact of Nitrogenous Fertilizers Funding Agency: UNESCO Amount: PKR 8,241,141.00 Status: Completed	2024
--	------

International Projects

Research Articles

Two-dimensional MXene and molybdenum disulphide for the removal of hexavalent chromium from water: A comparative study 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	2024
Comparative assessment of Pb (II) adsorption in different generations of magnetic-cored dendrimers: The significance of amine end group activity Hyun-Hyun Kim Hassan Anwer Jae-Woo Park Journal of Industrial and Engineering Chemistry, Volume: 138, Pages 144-152 Impact Factor: 5.9 Quartile: 1	2024

DOI: 10.1016/j.jiec.2024.03.048

The effects of nitrogen-doping on photocatalytic mineralization of TiO₂ nanocatalyst against formaldehyde in ambient air

2024

Dae-Hwan Lim Aadil Bathla Hassan Anwer Sherif A. Younis Danil W. Boukhvalov Ki-Hyun Kim
Chinese Journal of Catalysis, Volume 59, Page 303-323

Impact Factor: 16.500 | **Quartile:** 1 | **Citations:** 8

DOI: [https://doi.org/10.1016/S1872-2067\(24\)60010-0](https://doi.org/10.1016/S1872-2067(24)60010-0)

Carbon quantum dots (CQDs) modified polymers: a mini review of non-optical applications

2024

Zeeshan Latif Kinza Shahid Hassan Anwer Raghisa Shahid Mumtaz Ali Kang Hoon Lee Mubarak Alshareef
Nanoscale, Vol: 2024, Pages: 24

Impact Factor: 6.7 | **Quartile:** 1 | **Citations:** 39

DOI: 10.1039/D3NR04997C

Oxidative power loss control in ozonation: Nanobubble and ultrasonic cavitation

2023

Sangbin Lee Hassan Anwer Jae-Woo Park
Journal of Hazardous Materials, Volume 455, Article Number 131530

Impact Factor: 14.224 | **Quartile:** 1 | **Citations:** 25

DOI: <https://doi.org/10.1016/j.jhazmat.2023.131530>

Synthesis and characterization of SSM@NiO/TiO₂ p-n junction catalyst for bisphenol a degradation

2022

Nahee Kim Mumtaz Ali Hassan Anwer Jae-Woo Park Iqra Irfan
Chemosphere, Volume 308, Part 3, Article Number 136425

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 6

DOI: 10.1016/j.chemosphere.2022.136425

Photocatalytic potential of a titanium dioxide-supported platinum catalyst against complicated composition of VOCs under varying humidity conditions

2022

Ji-Won You Kumar Vikrant Dae-Hwan Lim Swati Verma Deepak Kukkar Hassan Anwer Ki-Hyun Kim
Journal of Cleaner Production, Volume 371, Article Number 133487

Impact Factor: 11.1 | **Quartile:** 1 | **Citations:** 22

DOI: 10.1016/j.jclepro.2022.133487

Citric, succinic, and vanillic acid-functionalized magnetic-cored dendrimer for methylene blue adsorption

2022

Hyun-Kyung Kim Hassan Anwer Jae-Woo Park
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, Pages 1-11

Impact Factor: 2.582 | **Quartile:** 3 | **Citations:** 3

DOI: <https://doi.org/10.1080/10934529.2022.2130646>

Lorentz force promoted charge separation in a hierarchical, bandgap tuned, and charge reversible NixMn (0.5-x) O photocatalyst for sulfamethoxazole degradation

2022

Hassan Anwer Jae-Woo Park
Applied Catalysis B: Environmental, Volume 300, Article Number 120724

Impact Factor: 19.503 | **Quartile:** 1 | **Citations:** 11

DOI: <https://doi.org/10.1016/j.apcatb.2021.120724>

Decontamination of radioactive cesium-contaminated soil/concrete with washing and washing supernatant– critical review

2021

Jung Hwan Kim Hassan Anwer Jae-Woo Park
Chemosphere, Volume 280, Article Number 130419

Impact Factor: 7.086 | **Quartile:** 1 | **Citations:** 23

DOI: 10.1016/j.chemosphere.2021.130419

Simulating alveoli-inspired air pockets in a ZnO/NiMoO₄/C₃N₄ catalyst filter for toluene entrapment and photodecomposition

2021

Hassan Anwer Mumtaz Ali Sangbin Lee Sung Hoon Jeong Jae-Woo Park
Journal of Hazardous Materials, Volume 409, Article Number 124497

Impact Factor: 10.588 | **Quartile:** 1 | **Citations:** 27

DOI: 10.1016/j.jhazmat.2020.124497

Addressing the OER/HER imbalance by a redox transition-induced two-way electron injection in a bifunctional n-p-n electrode for excellent water splitting

2020

Hassan Anwer Jae-Woo Park
Journal of Materials Chemistry A, Volume 8, Issue 26, Pages 13218-13230

Impact Factor: 12.732 | **Quartile:** 1 | **Citations:** 19
DOI: doi.org/10.1039/D0TA03392H

Selective transport and separation of charge-carriers by an electron transport layer in NiCo₂S₄/CdO@CC for excellent water splitting 2020

Hassan Anwer Hanuk lee Hye-Ran Kim Hyun-Kyung Kim Jae-Woo Park
Applied Catalysis B: Environmental, Volume 265, Article Number 118564
Impact Factor: 19.503 | **Quartile:** 1 | **Citations:** 35
DOI: https://doi.org/10.1016/j.apcatb.2019.118564

Graphene quantum dots on stainless-steel nanotubes for enhanced photocatalytic degradation of phenanthrene under visible light 2020

Hanuk lee Hassan Anwer Jae-Woo Park
Chemosphere, Volume 246, Article Number 125761
Impact Factor: 7.086 | **Quartile:** 1 | **Citations:** 47
DOI: doi.org/10.1016/j.chemosphere.2019.125761

Highly porous self-assembly of nitrogen-doped graphene quantum dots over reduced graphene sheets for photo-electrocatalytic electrode 2019

Rabia Riaz Mumtaz Ali Hassan Anwer Min-Jae Ko Sung Hoon Jeong
Journal of Colloid and Interface Science, Volume 557, Pages 174-184
Impact Factor: 7.489 | **Quartile:** 1 | **Citations:** 33
DOI: doi.org/10.1016/j.jcis.2019.09.028

Photocatalysts for degradation of dyes in industrial effluents: Opportunities and challenges 2019

Hassan Anwer Asad Mahmood Jechan Lee Ki-Hyun Kim Jae-Woo Park Alex CK Yip
Nano Research, Volume 12, Issue 5, Pages 955-972
Impact Factor: 8.183 | **Quartile:** 1 | **Citations:** 564
DOI: https://doi.org/10.1007/s12274-019-2287-0

Near-infrared to visible photon transition by upconverting NaYF₄: Yb³⁺, Gd³⁺, Tm³⁺@Bi₂WO₆ core@shell composite for bisphenol A degradation in solar light 2019

Hassan Anwer Jae-Woo Park
Applied Catalysis B: Environmental, Volume 243, Pages 438-447
Impact Factor: 16.683 | **Quartile:** 1 | **Citations:** 96
DOI: https://doi.org/10.1016/j.apcatb.2018.10.074

Synthesis and characterization of a heterojunction rGO/ZrO₂/Ag₃PO₄ nanocomposite for degradation of organic contaminants 2018

Hassan Anwer Jae-Woo Park
Journal of Hazardous Materials, Volume 358, Pages 416-426
Impact Factor: 7.650 | **Quartile:** 1 | **Citations:** 98
DOI: doi.org/10.1016/j.jhazmat.2018.07.019

Conference Proceedings

Effect of Soil Ammendments on Chromium (Cr) Contaminated Soil in Tomato (Solanum lycopersicum) 2023

Jamaluddin Kabir Kharotai Shumaila Parvez Hassan Anwer Aamir Alaud Din Muhammad Arshad Muhammad Ansar Farooq
NUST Conference on Agricultural Sciences and Technology (NCAST), res.country(177,)
Citations: N/A
DOI: https://ncast.asab.nust.edu.pk/

Book Chapters

Synthesis and Applications of Graphene Quantum Dots <i>Mumtaz Ali Zafar Arshad Hassan Anwer</i> In: <i>Book on 2D Semiconducting Materials for Electronic, Photonic, and Optoelectronic Devices</i> , 1st Edition, Chapter 3, Pages 30-44 Citations: 1 DOI: https://doi.org/10.1201/9781003439448	2024
Applications of Artificial Intelligence in Textiles and Fashion <i>Hassan Anwer Mumtaz Ali Hafsa Jamshaid</i> In: <i>Creative Textile Industry</i> , 1st Edition, Chapter 8, Page 175-194 Citations: N/A DOI: https://doi.org/10.1007/978-981-97-3802-1_8	2024
Phytotoxicity Response and Defense Mechanisms of Nanocomposites/Mixture of Nanoparticles <i>Muhammad Ansar Farooq Afsheen Fatima Sana Rehman Ayesha Batool Irum Gul Aamir Alaud Din Hassan Anwer Muhammad Arshad</i> In: <i>Book on Nanomaterials and Nanocomposites Exposures to Plants</i> , 1st Edition, Chapter 3, Pages 43-59 Citations: N/A DOI: 10.1007/978-981-99-2419-6_3	2023

Editorial Activities

Scientific Reports Reviewed Papers for Journals Impact Factor: 3.9	2025
Water Reviewed Papers for Journals Impact Factor: 0.3	2025
Water Reviewed Papers for Journals Impact Factor: 3.0	2025
Chemical Engineering Journal Reviewed Papers for Journals Impact Factor: 13.4	2025
Journal of Chemical Engineering Reviewed Papers for Journals Impact Factor: 2.7	2025
Korean Journal of Chemical Engineering Reviewed Papers for Journals Impact Factor: 3.0	2025
Wate Reviewed Papers for Journals Impact Factor: 0.3	2025
Water Reviewed Papers for Journals Impact Factor: 0.3	2025
Journal of Cleaner Production Reviewed Papers for Journals Impact Factor: 9.7	2024
Journal of Cleaner Production Reviewed Papers for Journals Impact Factor: 9.7	2024
Korean Journal of Chemical Engineering Reviewed Papers for Journals Impact Factor: 3	2024
Chemical Engineering Journal Reviewed Papers for Journals	2024

Impact Factor: 13.3	
Water, Air, & Soil Pollution	2024
Reviewed Papers for Journals	
Impact Factor: 3.8	
Journal of Cleaner Production	2024
Reviewed Papers for Journals	
Impact Factor: 9.7	
Science of the Total Environment	2024
Reviewed Papers for Journals	
Impact Factor: 8.2	
	2024
Reviewed Papers for Journals	
Impact Factor: 12.2	
Journal of Colloid and Interface Science	2024
Reviewed Papers for Journals	
Impact Factor: 9.4	
Chemical Engineering Journal	2024
Reviewed Papers for Journals	
Impact Factor: 15.1	
WATER AIR AND SOIL POLLUTION	2024
Reviewed Papers for Journals	
Impact Factor: 3.8	
Chemical Engineering Journal	2024
Reviewed Papers for Journals	
Impact Factor: 15.1	
Chemical Engineering Journal	2024
Reviewed Papers for Journals	
Impact Factor: 15.1	
Science of the Total Environment	2024
Reviewed Papers for Journals	
Impact Factor: 9.8	
Korean Journal of Chemical Engineering	2024
Reviewed Papers for Journals	
Impact Factor: 2.7	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 15.1	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 15.1	
Korean Journal of Chemical Engineering	2023
Reviewed Papers for Journals	
Impact Factor: 2.7	
Chemosphere	2023
Reviewed Papers for Journals	
Impact Factor: 8.8	
Korean Journal of Chemical Engineering	2023
Reviewed Papers for Journals	
Impact Factor: 2.7	
Journal of Colloid and Interface Science	2023
Reviewed Papers for Journals	
Impact Factor: 9.9	
Chemical Engineering Journal	2023

Reviewed Papers for Journals	
Impact Factor: 15.1	
Chemosphere	2023
Reviewed Papers for Journals	
Impact Factor: 8.8	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 15.1	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 16.7	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 16.744	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 16.744	
Journal of Colloid and Interface Science	2023
Reviewed Papers for Journals	
Impact Factor: 9.965	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 16.744	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 16.7	
Korean Journal of Chemical Engineering	2023
Reviewed Papers for Journals	
Impact Factor: 3.146	
Chemical Engineering Journal	2023
Reviewed Papers for Journals	
Impact Factor: 16.744	
Catalysts	2023
Reviewed Papers for Journals	
Impact Factor: 4.5	
Catalysts	2023
Reviewed Papers for Journals	
Impact Factor: 4.501	
Sustainability	2022
Reviewed Papers for Journals	
Impact Factor: 3.8	
Chemical Engineering Journal	2022
Reviewed Papers for Journals	
Impact Factor: 16.744	
Materials	2022
Reviewed Papers for Journals	
Impact Factor: 3.75	
Chemical Engineering Journal	2022
Reviewed Papers for Journals	
Impact Factor: 16.744	
Chemical Engineering Journal	2022
Reviewed Papers for Journals	
Impact Factor: 16.744	

Molecules	2022
Reviewed Papers for Journals	
Impact Factor: 4.927	
Korean Journal of Chemical Engineering	2022
Reviewed Papers for Journals	
Impact Factor: 3.146	
Chemical Engineering Journal	2022
Reviewed Papers for Journals	
Impact Factor: 16.744	
Catalysts	2022
Reviewed Papers for Journals	
Impact Factor: 4.501	
Catalysts	2022
Reviewed Papers for Journals	
Impact Factor: 4.501	
Catalysts	2022
Reviewed Papers for Journals	
Impact Factor: 4.501	
	2022
Reviewed Papers for Journals	
Impact Factor: NA	
Korean Journal of Chemical Engineering	2022
Reviewed Papers for Journals	
Impact Factor: 3.146	
Chemosphere	2022
Reviewed Papers for Journals	
Impact Factor: 8.943	
Chemosphere	2022
Reviewed Papers for Journals	
Impact Factor: 8.943	