

Hira Karim

Temporary Visiting Faculty

School of Natural Sciences

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About

Dr. Hira Karim is working as Temporary Visiting Faculty in the School of Natural Sciences. Dr. Hira Karim has published 7 research articles & conference papers having a citation count of 15, carried out 0 projects and filed 0 intellectual property.

Qualifications

Experience

Temporary Visiting Faculty
School of Natural Sciences

2023- Present

Research Articles

- Unravelling the role of non-covalent interactions using imidazolium and amino acid based organic salts for efficient CO₂ capture: Experimental, DFT and COSMO-RS explorations** 2025
Hira Karim Sabahat Sardar Asad Mumtaz Anila Tabassum Muhammad Arfan Azhar Mahmood Jean-Marc Leveque Cecilia Devi Wilfred Syed Farooq Adil Mohammad Rafe Hatshan Mujeeb Khan
Journal of Environmental Chemical Engineering, Volume:13, Issue:3, Article Number 116237
Impact Factor: 7.400 | **Quartile:** 1 | **Citations:** 1
DOI: 10.1016/j.jece.2025.116237
- Phytochemical evaluation and biosynthesis of Ocimum tenuiflorum based iron nanoclusters: An integrated experimental and DFT approach** 2025
Hira Karim Manjeet Kaur Jitender Rathee Khushwant Nandal Priyanka Dahiya Abdul Rajjak Shaikh Anshul Sharma
Results in Surfaces and Interfaces, Volume 19, Article Number 100494
Impact Factor: N/A
DOI: <https://doi.org/10.1016/j.rsufi.2025.100494>
- Choline-based amino acid ionic liquids for CO₂ capture** 2025
Abdul Rajjak Shaikh Andrea Grillo Massimo Christian D'Alterio Jason J. Pajski Syazwani Itri Amran Hira Karim Mohit Chawla Giovanni Talarico Albert Poater Luigi Cavallo
Journal of Molecular Liquids, Volume:424, Article Number 127084
Impact Factor: 5.300 | **Quartile:** 1 | **Citations:** 2
DOI: <https://doi.org/10.1016/j.molliq.2025.127084>
- Effect of the anionic counterpart of amino acid based Ionic liquids upon efficient CO₂ Capture: A correlation of experimental and DFT study** 2024
Hira Karim Sabahat Sardar Hajra Bibi Fouzia Perveen Muhammad Arfan Asad Mumtaz
Journal of Molecular Liquids, Volume 405, Article Number 125079
Impact Factor: 5.300 | **Quartile:** 1 | **Citations:** 4
DOI: 10.1016/j.molliq.2024.125079
- Enhanced antioxidant activity in Imidazolium-based protic organic salts: An insight into structure activity relationship via experimental and modelling approaches** 2024
Sabahat Sardar Erum Jabeen Hira Karim Asad Mumtaz
Journal of Molecular Liquids, Volume:404, Article Number: 124964
Impact Factor: 5.3 | **Quartile:** 1 | **Citations:** 1
DOI: 10.1016/j.molliq.2024.124964
- Acetone-Treated Au Nanoparticles Supported on CeO₂ for the Wet Air Oxidation of Dimethylformamide** 2024
Sajid Ali Kok Bing Tan Shafqat Ullah Muhammad Junaid Aslam Jile Fu Hira Karim Binghui Chen Guowu Zhan
ACS Applied Nano Materials, Volume:7, Issue:5, Page:5113-5123
Impact Factor: 5.3 | **Quartile:** 2 | **Citations:** 3
DOI: 10.1021/acsanm.3c05901

Book Chapters

- Electrospun fibers: promising materials for oil water separation** 2024
Muhammad Shahzeb Khan Muhammad Ibrar Asif Hira Karim Syeda Alvia Zainab Muhammad Asif Muhammad Sohail Mohsin Ali Junaid Munawar Shahid Nawaz Hameed Ul Haq
In: *Book on Nanotechnology for Oil-Water Separation: From Fundamentals to Industrial Applications*, Chapter 11, Pages 261-288
Citations: 4
DOI: <https://doi.org/10.1016/B978-0-323-95517-1.00011-1>