

## Paper Published during 2025

International Journal	
Sl. No.	Paper Details
1	Bornali Bora, Heena Kauser, Sachin Ramesh Rao Geed Bioremediation strategies for xenobiotic degradation in petroleum-impacted industrial ecosystems: Practical challenges and future directions Journal of Water Process Engineering 2025 Volume 70, February 2025, 106877 <a href="https://www.sciencedirect.com/science/article/abs/pii/S2214714424021093?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S2214714424021093?via%3Dihub</a>
2	Twinkle Borah, Prasanna Sarmah, Parthapratim Konwar, Jadumoni Saikia, Nooreen Washmin, Siddhartha Proteem Saikia, Dipanwita Banik Physico-chemical, nutritional, and anti-inflammatory properties of processed Garcinia pedunculata fruit: A combined in vitro and in silico approach Food Research International 2025 Volume 201, February 2025, 115580 <a href="https://www.sciencedirect.com/science/article/abs/pii/S096399692401651X?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S096399692401651X?via%3Dihub</a>
3	Kangkana Chutia, Priyanka Saikia, Dhiraj Dutta, Babulal Das, Pranjal Gogoi Synthesis of 6H-Benzo[c]chromene Scaffolds: A Synthetic Strategy of Pd-Catalyzed Annulation Followed by Aerial Oxidation JOURNAL OF ORGANIC CHEMISTRY 2025 <a href="https://pubs.acs.org/doi/10.1021/acs.joc.4c02780#">https://pubs.acs.org/doi/10.1021/acs.joc.4c02780#</a>
4	Gogoi, Priyadarshini; Bora, Prarthana; Hazarika, Swapnali Electroconductive membrane for water treatment: A new paradigm for accessing clean water Desalination 2025 Volume 601, 15 April 2025, 118567 2025/Electroconductive membrane for water treatment.pdf
5	Dutta, Koushik; Duarah, Rituparna; Purbey, Ravi; Jayaramudu, J.; Das, Manash R. Development of Biodegradable High-Alumina Clay-Modified Poly (Butylene Adipate-Co-Terephthalate) Composites for Sustainable Packaging Applications Journal of Applied Polymer Science 2025 <a href="https://onlinelibrary.wiley.com/doi/10.1002/app.56680">https://onlinelibrary.wiley.com/doi/10.1002/app.56680</a>
6	Das, Tonkeswar; Sarmah, Debashis ; Jhaa, Gaurav ; Das, Bhargab; Nath, Preetom Kishore; Borborah, Abhishek ; Bora, Mousumi Unveils the macromolecular structure of high-sulfur Indian coal for hydrogen production Journal of the Indian Chemical Society 2025 "Volume 102, Issue 2, February 2025, 101558" <a href="https://www.sciencedirect.com/science/article/abs/pii/S0019452224004382?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S0019452224004382?via%3Dihub</a>
7	Ranjan Borah, Akhil; Gogoi, Monti; Goswami, Rajiv; Kishore Nath, Preetom; Hazarika, Swapnali Chiral Ni-Al LDH nanoparticle embedded electrospun nanofibrous membrane with high and stable permeance for enantioseparation of ketoprofen Separation and Purification Technology 2025 Volume 361, Part 2, 19 July 2025, 131443 <a href="https://www.sciencedirect.com/science/article/pii/S1383586625000401?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S1383586625000401?via%3Dihub</a>
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10	Chetry, Rashmi; Dutta, Rupjyoti; Das, Manash R.; Bharali, Pankaj Deciphering the Effect of Fe and Cu in Pd Lattice for the Oxygen Reduction Reaction ENERGY & FUELS 2025 <a href="http://dx.doi.org/10.1021/acs.energyfuels.4c05478">http://dx.doi.org/10.1021/acs.energyfuels.4c05478</a>

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14	"Ashique Ahmed, Sachin Ramesh Rao Geed" "Sustainable refinery waste management through biotechnological interventions: Health impacts, historical successes, and emerging solutions" Environmental Research 2025 Volume 270, 1 April 2025, 120967 <a href="https://www.sciencedirect.com/science/article/pii/S001393512500218X?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S001393512500218X?via%3Dihub</a>
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18	Debashis Bora, Prakash J. Saikia, Jagannath Bhuyan Synthesis, characterization and computational insight into the reactivity of chromium isoporphyrins Journal of Molecular Structure 2025 Volume 1331, 5 June 2025, 141603 <a href="https://www.sciencedirect.com/science/article/pii/S0022286025002923?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0022286025002923?via%3Dihub</a>
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21	Raghu Tamang, Tanmita Gupta, Twahira Begum, Mohan Lal An updated review on ethnobotanical insights, phytochemistry and pharmacological potentials of <i>Homalomena aromatica</i> Schott.: an important medicinal aromatic plant Journal of Herbal Medicine 2025 <a href="https://www.sciencedirect.com/science/article/pii/S2210803325000065?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S2210803325000065?via%3Dihub</a>
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