
LIST OF PUBLICATIONS

1. **Maurya, Sarvatej Kumar, et al.** "Understanding the electrocatalytic role of magnesium doped bismuth copper titanate (BCTO) in oxygen evolution reaction." *Journal of Electroanalytical Chemistry* 975 (2024): 118803.
<https://doi.org/10.1016/j.jelechem.2024.118803>
2. **Maurya, Sarvatej Kumar, et al.** "Investigating the Electrochemical Performance of Cobalt Tungstate $\text{Co}_x\text{W}_{2-x}\text{O}_4$; $x = 0.5, 1.0, 1.5$ Catalysts for Alkaline Water Oxidation: Tailoring Composition for Optimal Activity." **Under review.**
3. **Maurya, Sarvatej Kumar, et al.** "Synergistic electrocatalysis for oxygen evolution reaction using novel polypyrrole integrated CoWO_4 in alkaline solution." *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2025): 137006.
<https://doi.org/10.1016/j.colsurfa.2025.137006>
4. Soni, Amisha, **Sarvatej Kumar Maurya**, and Manisha Malviya. "Exploring electrocatalysts for oxygen evolution: A comprehensive comparative review in alkaline and acidic medium." *Journal of Power Sources* 636 (2025): 236571.
<https://doi.org/10.1016/j.jpowsour.2025.236571>
5. Soni, Amisha, **Sarvatej Kumar Maurya**, Manisha Malviya, B. Lal, and Dhanesh Tiwary. "Evaluating Zn ferrite ($\text{Zn}_x\text{Fe}_{3-x}\text{O}_4$; $0 \leq x \leq 1$) for alkaline water oxidation: electrochemical and spectro-electrochemical study." *Journal of Applied Electrochemistry* (2024): 1-15. <https://doi.org/10.1007/s10800-024-02164-2>

6. Soni, Amisha, **Sarvatej Kumar Maurya**, Manisha Malviya, and Dhanesh Tiwary. "Exploring the synergistically enhanced activity of novel α -MnSe/ppy composite for superior OER catalyst in alkaline medium." *Journal of Electroanalytical Chemistry* 972 (2024): 118640.
<https://doi.org/10.1016/j.jelechem.2024.118640>
7. Soni, Amisha, **Sarvatej Kumar Maurya**, Manisha Malviya, and Dhanesh Tiwary. "Development of novel CuMnSe₂/ppy hybrid structure for enhancing OER electrocatalytic activity in basic environment." *Journal of Environmental Chemical Engineering* (2025): 116690.
<https://doi.org/10.1016/j.jece.2025.116690>
8. Soni, Amisha, **Sarvatej Kumar Maurya**, Manisha Malviya, and Dhanesh Tiwary. "Investigating enhanced OER activity through novel MnMoSe₂/ppy composite material in alkaline medium. " *Journal of Electroanalytical Chemistry* 991 (2025): 119173.
<https://doi.org/10.1016/j.jelechem.2025.119173>
9. Malviya, Manisha, **Amisha Soni**, and Sarvatej Kumar Maurya. "Graphene Derived Materials as Catalysts for the Oxygen Reduction Reaction." *Graphene-Based Nanomaterial Catalysis*. Bentham Science Publishers, 2022. 43-57.
<https://doi.org/10.2174/97898150404941220101>

List of Conferences

1. Poster Presentation at International Conference on “**Polymers for Advanced Technology,**” Asian Polymer Association (APA), 2023 Goa.
2. Poster Presentation at National Conference on “**Research Methodology,**” IQAC and Research Development Cell, Harish Chandra P.G. College, 2023 Varanasi.
3. Poster Presentation at National Conference on “**Research Methodology,**” IQAC and Research Development Cell, Harish Chandra P.G. College, 2025 Varanasi.