

---

---

## LIST OF PUBLICATIONS

---

---

1. **Soni, Amisha, et al.** "Evaluating Zn ferrite ( $Zn_xFe_{3-x}O_4$ ;  $0 \leq x \leq 1$ ) 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>
2. **Soni, Amisha, et al.** "Exploring the synergistically enhanced activity of novel  $\alpha$ -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>
3. **Soni, Amisha, et al.** "Investigating enhanced OER activity through novel MnMoSe<sub>2</sub>/ppy composite material in alkaline medium." **Accepted** in *Journal of Electroanalytical Chemistry*.
4. **Soni, Amisha, et al.** "Development of novel CuMnSe<sub>2</sub>/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>
5. **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>

6. **Soni, Amisha**, Manisha Malviya, and Dhanesh Tiwary. "Carbon quantum dots as corrosion inhibitors." *Smart Anticorrosive Materials* (2023): 187-209.  
<https://doi.org/10.1016/B978-0-323-95158-6.00004-7>
7. Maurya, Sarvatej Kumar, **Amisha Soni**, Manisha Malviya, and Dhanesh Tiwary. "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>
8. Maurya, Sarvatej Kumar, **Amisha Soni**, Hemant Kumar, Manisha Malviya, Dhanesh Tiwary, and Prabhakar Singh. "Synergistic electrocatalysis for oxygen evolution reaction using novel polypyrrole integrated CoWO<sub>4</sub> in alkaline solution." *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2025): 137006.  
<https://doi.org/10.1016/j.colsurfa.2025.137006>
9. Chauhan, P., B. Lal, M. Malviya, and **A. Soni**. "Electrocatalytic Properties of Iron Ferrite (Fe<sub>3</sub>O<sub>4</sub>) Obtained by Thermal Decomposition Method Using Egg White (Ovalbumin)." *Russian Journal of Electrochemistry* 59, no. 4 (2023): 313-319.  
<https://doi.org/10.1134/S1023193523040043>
10. 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 “**Mechanistic investigation on heterogeneous processes,**” Chemical Catalysis Conference (ChemCatCon) 2.0, IIT Gandhinagar, Gandhinagar, Gujrat.