### CV

- 1. Name : Dr. Mahendra Yadav
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- 3. Department : Chemistry and Chemical Biology Indian Institute of Technology (ISM) Dhanbad
- 4. Educational Qualifications Ph.D. (Applied Chemistry) IIT BHU Varanasi
- 5. Research Area : Electrochemistry, Hydrogen Energy, Corrosion Science
- 6. Number of Ph.D. Guided : 22
- 7. Number of M. Sc. Project Guided : 50
- 8. Number of M. Phil. Guided : 05
- 9. Best researcher award by IIT (ISM) Dhanbad
- 10. Number of R & D Project completed: 07
- 11. Number of EDP courses conducted: 08
- 12. Number of Research publications in reputed journals: 81

# LIST OF PUBLICATIONS

- Arti Maurya, Vrinda TR, Mahendra Yadav\* Multiwall carbon nanotubes supported rhenium doped Co3O4 as an efficient electrocatalyst for water oxidation in alkaline medium. Journal of Alloys and Compounds 996 (2024) 174751. Impact Factor = 6.37 (Q1)
- Arti Maurya, Mahendra Yadav\*. Sphere shaped Mo-doped transition metal oxide as electrocatalyst for oxygen evolution reaction in alkaline medium. Journal of Alloys and Compounds 956 (2023) 170208. Impact Factor = 6.37 (Q1)
- Arti Maurya, Nidhi Pradhan, Kumari Kasher, Mahendra Yadav\* Marigold flower like B -Fe3S4 /Co3S4 decorated with multi-wall carbon nanotubes for Oxygen evolution in the alkaline media. Journal of Environmental Chemical Engineering, 12 (2024) 114709.

### Q1 Impact factor = 7.4

- Arti Maurya, Nidhi Pradhan, Mahendra Yadav\* Heteroatom doped MoO3 efficiency towards Hydrogen Evolution Reaction (HER) in acidic as well as alkaline medium. Journal of Electroanalytical Chemistry, 977 (2025) 118827. Impact Factor = 4.6 (Q1)
- Tarun Kanti Sarkar, Mahendra Yadav\*, I.B. Obot b, Mechanistic evaluation of adsorption and corrosion inhibition capabilities of novel indoline compounds for oil well/tubing steel in 15% HCl, Chemical Engineering Journal 431 (2022) 133481.

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- R.K. Mehta, S. K. Gupta, M. Yadav, Studies on pyrimidine derivative as green corrosion inhibitor in acidic environment: Electrochemical and computational approach, Journal of Environmental Chemical Engineering 10 (2022) 108499.

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- 10. Sujata Kumari Gupta, R. K. Mehta, M. Yadav, O. Dagdag, V. Mehmeti, A. Berisha, E. E. Ebenso, Diazenyl derivatives as efficient corrosion inhibitors for mild steel in HCl medium: Gravimetric, electrochemical and computational approach, *Journal of Molecular Liquids*, 382 (2023) 121976.
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morphological studies, Diamond & Related Materials, 136 (2023) 109992. Q1 Impact factor = 4.1

- Sujata Kumari Gupta, R. K. Mitra, M. Yadav, O. Dagdag, A. Berisha, E. E. Ebenso, Electrochemical, surface morphological, and computational evaluation on carbohydrazide Schiff bases as corrosion inhibitor for mild steel in acidic medium, *Scientific Reports*, 13 (2023) 15108. Q1 Impact factor = 4.6
- 13. Sujata Kumari Gupta, R. K. Mehta, N. Kumari, I. B Obot, M. Yadav, Study on benzylidine derivatives as corrosion inhibitors for mild steel in 15% HCl medium: Experimental & theoretical investigation, *Journal of Physics and Chemistry of Solids*, 183 (2023) 111632.
   Q1 Impact factor = 4.38
- 14. RK Mehta, M Yadav, Corrosion inhibition properties of expired Broclear medicine and its carbon dot as eco-friendly inhibitors for mild steel in 15% HCl, Materials Science and Engineering: B 295 (2023), 116566. Q1 Impact factor = 3.6
- 15. B Kumari, RK Tiwary, M Yadav, Effect of poly-aniline coated iron ore mining waste (PANI@ IOMW) as efficient adsorbent on mitigation of Cr (VI) from aqueous solution: Experimental and statistical investigation, Chemical Engineering Research and Design 190 (2023) 434-450.
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- 16. A. Maurya, K. C. Majhi, M. Yadav, Template-directed shape control synthesis of rare earth sulfide for oxygen evolution reaction, Journal of Physics and Chemistry of Solids 170 (2022) 110891.
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- 20. Priya Kumari Paul, Raj Kumar Mehta, Mahendra Yadav, I.B. Obot, Theoretical, electrochemical and computational inspection for anti-corrosion activity of triazepine derivatives on mild steel in HCl medium. Journal of Molecular Liquids 348 (2022) 118075. Q1 Impact factor = 6.63
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- 24. Kartick Chandra Majhi and Mahendra Yadav\*Sphere-Shaped Bimetallic Sulphoselenide:
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- 25. Binu Kumari, Rajani Kant Tiwary, Mahendra Yadav, and Krishna Murari Prasad Singh, Nonlinear regression analysis and response surface modeling of Cr (VI) removal from synthetic wastewater by an agro-waste Cocos Nucifera: Box-Behnken Design, *International Journal of Phytoremediation*, 23 (8), 791-808. Impact Factor = 3.21 (Q2).
- 26. <u>Priya Kumari Paul</u>, <u>Mahendra Yadav</u>\*, <u>Ime Obot</u>, Potential of dibenzo-18-crown-6 derivatives as corrosion inhibitor on mild steel in HCl medium: Electrochemical and Computational approach. *New J. Chem.*, 2021, (Accepted) <u>doi.org/10.1039/D1NJ00869B</u>.Impact Factor = 3.93 (Q2)

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