

Amar Yadav

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,320
citations

430874

18
h-index

345221

36
g-index

47
all docs

47
docs citations

47
times ranked

1158
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Electrochemical impedance study on galvanized steel corrosion under cyclic wet-dry conditions— influence of time of wetness. <i>Corrosion Science</i> , 2004, 46, 169-181. | 6.6 | 203 |
| 2 | Dissolution Mechanism of Platinum in Sulfuric Acid Solution. <i>Journal of the Electrochemical Society</i> , 2012, 159, F779-F786. | 2.9 | 124 |
| 3 | Degradation mechanism of galvanized steel in wet-dry cyclic environment containing chloride ions. <i>Corrosion Science</i> , 2004, 46, 361-376. | 6.6 | 102 |
| 4 | Effect of halogen ions on platinum dissolution under potential cycling in 0.5M H ₂ SO ₄ solution. <i>Electrochimica Acta</i> , 2007, 52, 7444-7452. | 5.2 | 87 |
| 5 | Oxygen reduction mechanism on corroded zinc. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 142-149. | 3.8 | 83 |
| 6 | Effect of Fe-Zn alloy layer on the corrosion resistance of galvanized steel in chloride containing environments. <i>Corrosion Science</i> , 2007, 49, 3716-3731. | 6.6 | 81 |
| 7 | EQCM Study on Dissolution of Ruthenium in Sulfuric Acid. <i>Journal of the Electrochemical Society</i> , 2008, 155, B897. | 2.9 | 48 |
| 8 | Surface potential distribution over a zinc/steel galvanic couple corroding under thin layer of electrolyte. <i>Electrochimica Acta</i> , 2007, 52, 3121-3129. | 5.2 | 45 |
| 9 | Channel-Flow Double-Electrode Study on the Dissolution and Deposition Potentials of Platinum under Potential Cycles. <i>Journal of the Electrochemical Society</i> , 2009, 156, C253. | 2.9 | 40 |
| 10 | Combinatorial electrochemistry on Al-Fe alloys. <i>Science and Technology of Advanced Materials</i> , 2008, 9, 035009. | 6.1 | 39 |
| 11 | Effect of Al on the galvanic ability of Zn-Al coating under thin layer of electrolyte. <i>Electrochimica Acta</i> , 2007, 52, 2411-2422. | 5.2 | 38 |
| 12 | Electrochemical Quartz Crystal Microbalance Study on Dissolution of Platinum in Acid Solutions. <i>Electrochemistry</i> , 2007, 75, 359-365. | 1.4 | 37 |
| 13 | Dissolution and surface area loss of platinum nanoparticles under potential cycling. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 379-383. | 3.8 | 34 |
| 14 | Investigation of atmospheric corrosion of Zn using ac impedance and differential pressure meter. <i>Electrochimica Acta</i> , 2004, 49, 2725-2729. | 5.2 | 33 |
| 15 | Application of channel flow double electrode to the study on platinum dissolution during potential cycling in sulfuric acid solution. <i>Electrochimica Acta</i> , 2011, 56, 9714-9720. | 5.2 | 27 |
| 16 | Effects of pH on Dissolution and Surface Area Loss of Platinum Due to Potential Cycling. <i>Journal of the Electrochemical Society</i> , 2012, 159, C190-C194. | 2.9 | 26 |
| 17 | Hydrogen entry behaviour of newly developed Al-Mg-Si coating produced by physical vapour deposition. <i>Corrosion Science</i> , 2011, 53, 3043-3047. | 6.6 | 25 |
| 18 | Berberine isolated from <i>Mahonia nepalensis</i> as an eco-friendly and thermally stable corrosion inhibitor for mild steel in acid medium. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103423. | 4.9 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Bark Extract of <i>Lantana camara</i> in 1M HCl as Green Corrosion Inhibitor for Mild Steel. <i>Engineering Journal</i> , 2019, 23, 205-211. | 1.0 | 17 |
| 20 | Mitigation of sulphate-reducing bacteria attack on the corrosion of 20SiMn steel rebar in sulphoaluminate concrete using organic silicon quaternary ammonium salt. <i>Construction and Building Materials</i> , 2020, 257, 119047. | 7.2 | 16 |
| 21 | Enhancement of Ethanol Production in Electrochemical Cell by <i>Saccharomyces cerevisiae</i> (CDBT2) and <i>Wickerhamomyces anomalus</i> (CDBT7). <i>Frontiers in Energy Research</i> , 2019, 7, . | 2.3 | 15 |
| 22 | Effect of glycine addition on the in-vitro corrosion behavior of AZ31 magnesium alloy in Hank's solution. <i>Journal of Materials Science and Technology</i> , 2021, 81, 97-107. | 10.7 | 15 |
| 23 | Alkaloid of <i>Rhynchosyilis retusa</i> as Green Inhibitor for Mild Steel Corrosion in 1 M H ₂ SO ₄ Solution. <i>Electrochem</i> , 2022, 3, 211-224. | 3.3 | 14 |
| 24 | Evaluation of impedance spectra of zinc and galvanised steel corroding under atmospheric environments. <i>Corrosion Engineering Science and Technology</i> , 2008, 43, 23-29. | 1.4 | 12 |
| 25 | Study on the Temperature Dependence of Pitting Behaviour of AISI 4135 Steel in Marine Splash Zone. <i>Electrochemistry</i> , 2015, 83, 541-548. | 1.4 | 12 |
| 26 | The effect of electrolytes on the coating of polyaniline on mild steel by electrochemical methods and its corrosion behavior. <i>Progress in Organic Coatings</i> , 2021, 152, 106127. | 3.9 | 12 |
| 27 | Hydrogen entry behaviour of hot-dip Al-Mg-Si coated steel. <i>Corrosion Science</i> , 2011, 53, 3866-3871. | 6.6 | 11 |
| 28 | Ce-Doped PANI/Fe ₃ O ₄ Nanocomposites: Electrode Materials for Supercapattery. <i>Frontiers in Chemical Engineering</i> , 2021, 3, . | 2.7 | 11 |
| 29 | An alternative pH sensor: graphene oxide-based electrochemical sensor. <i>Emergent Materials</i> , 2022, 5, 509-517. | 5.7 | 11 |
| 30 | Thermodynamic, Adsorption and Corrosion Inhibition Studies of Mild Steel by <i>Artemisia vulgaris</i> Extract from Methanol as Green Corrosion Inhibitor in Acid Medium. <i>Journal of Nepal Chemical Society</i> , 0, 39, 76-85. | 0.8 | 10 |
| 31 | Corrosion Inhibition of Bark Extract of <i>Euphorbia royleana</i> on Mild Steel in 1M HCl. <i>Journal of Nepal Chemical Society</i> , 0, 40, 25-29. | 0.8 | 9 |
| 32 | Effects of Potential Range and Sweep Rate on Dissolution of Platinum under Potential Cycling in 0.5 M H ₂ SO ₄ Solution. <i>ECS Transactions</i> , 2009, 16, 117-123. | 0.5 | 8 |
| 33 | Electrochemical Stability and Oxidation Mechanism of Carbon Support for PEM Fuel Cell. <i>ECS Transactions</i> , 2008, 16, 2093-2099. | 0.5 | 8 |
| 34 | Characterization of home-made silver sulphide based iodide selective electrode. <i>Talanta</i> , 2010, 82, 1448-1454. | 5.5 | 8 |
| 35 | Preparation of an Amperometric Glucose Biosensor on Polyaniline-Coated Graphite. <i>Journal of Sensors</i> , 2021, 2021, 1-7. | 1.1 | 8 |
| 36 | Effect of Corrosion Product on the Electrochemical Behavior of Zn, Zn-Al and Al-Mg-Si Alloy Coated Steel. <i>Electrochemistry</i> , 2012, 80, 218-221. | 1.4 | 5 |

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|----|--|------|-----------|
| 37 | Effects of bentonite content on the corrosion evolution of low carbon steel in simulated geological disposal environment. <i>Journal of Materials Science and Technology</i> , 2021, 66, 46-56. | 10.7 | 5 |
| 38 | Trace level monitoring of Cu(II) ion using CuS particles based membrane electrochemical sensor. <i>Heliyon</i> , 2021, 7, e07167. | 3.2 | 5 |
| 39 | Corrosion Behavior of 55mass%Al-1.6mass%Si-Zn Alloy in Wet-Dry Cyclic Environment. <i>ISIJ International</i> , 2004, 44, 1727-1732. | 1.4 | 5 |
| 40 | Study of Jatropha Curcas Extract as a Corrosion Inhibitor in Acidic Medium on Mild Steel by Weight Loss and Potentiodynamic Methods. <i>Journal of Nepal Chemical Society</i> , 2020, 41, 87-93. | 0.8 | 4 |
| 41 | Co Nanoparticle-Encapsulated Nitrogen-Doped Carbon Nanotubes as an Efficient and Robust Catalyst for Electro-Oxidation of Hydrazine. <i>Nanomaterials</i> , 2021, 11, 2857. | 4.1 | 3 |
| 42 | Effects of NH ₄ ⁺ , Na ⁺ , and Mg ²⁺ ions on the corrosion behavior of galvanized steel in wet-dry cyclic conditions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 1388-1395. | 1.5 | 2 |
| 43 | Proton and Electron Conducting Polymer Composite Films Based on SBS Triblock Copolymer. <i>Macromolecular Symposia</i> , 2012, 320, 15-23. | 0.7 | 1 |
| 44 | Corrosion Inhibition of Mild Steel in Acidic Medium Using High Altitude Plant Extract. <i>Journal of Nepal Chemical Society</i> , 2018, 38, 48-57. | 0.8 | 1 |
| 45 | Fabrication and Characterization of Phthalic Acid Sensor for Detection of Lead (II) Ion. <i>Journal of Nepal Chemical Society</i> , 0, 37, 90-94. | 0.8 | 1 |
| 46 | Dissolution Behavior of Pt Alloy Catalysts in Sulfuric Acid Solution. <i>ECS Transactions</i> , 2009, 16, 71-76. | 0.5 | 0 |
| 47 | Dataset for the selection of electrolytes for Electropolymerization of aniline. <i>Data in Brief</i> , 2021, 35, 106875. | 1.0 | 0 |