

Ediga Umeshbabu

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,441
citations

394421

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552781

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docs citations

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times ranked

1944
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Recent Progress in All-Solid-State Lithium ⁺ Sulfur Batteries Using High Li-Ion Conductive Solid Electrolytes. <i>Electrochemical Energy Reviews</i> , 2019, 2, 199-230. | 25.5 | 179 |
| 2 | Urchin and sheaf-like NiCo ₂ O ₄ nanostructures: Synthesis and electrochemical energy storage application. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 15627-15638. | 7.1 | 153 |
| 3 | NiCo ₂ O ₄ hexagonal nanoplates anchored on reduced graphene oxide sheets with enhanced electrocatalytic activity and stability for methanol and water oxidation. <i>Electrochimica Acta</i> , 2016, 213, 717-729. | 5.2 | 131 |
| 4 | Synthesis of mesoporous NiCo ₂ O ₄ @rGO by a solvothermal method for charge storage applications. <i>RSC Advances</i> , 2015, 5, 66657-66666. | 3.6 | 115 |
| 5 | Magnetic, optical and electrocatalytic properties of urchin and sheaf-like NiCo ₂ O ₄ nanostructures. <i>Materials Chemistry and Physics</i> , 2015, 165, 235-244. | 4.0 | 103 |
| 6 | Stabilizing Li ₁₀ /SnP ₂ S ₁₂ /Li Interface via an in Situ Formed Solid Electrolyte Interphase Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25473-25482. | 8.0 | 103 |
| 7 | Stable Cycling Lithium ⁺ Sulfur Solid Batteries with Enhanced Li/Li ₁₀ /GeP ₂ S ₁₂ Solid Electrolyte Interface Stability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18436-18447. | 8.0 | 82 |
| 8 | Vanadium pentoxide nanochains for high-performance electrochemical supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 210-219. | 9.4 | 64 |
| 9 | NiCo ₂ O ₄ /rGO hybrid nanostructures for efficient electrocatalytic oxygen evolution. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2725-2736. | 2.5 | 60 |
| 10 | Unraveling (electro)-chemical stability and interfacial reactions of Li ₁₀ SnP ₂ S ₁₂ in all-solid-state Li batteries. <i>Nano Energy</i> , 2020, 67, 104252. | 16.0 | 59 |
| 11 | In situ fabrication of graphene decorated microstructured globe artichokes of partial molar nickel cobaltite anchored on a Ni foam as a high-performance supercapacitor electrode. <i>RSC Advances</i> , 2015, 5, 38407-38416. | 3.6 | 55 |
| 12 | In situ fabrication of porous festuca scoparia-like Ni _{0.3} Co _{2.7} O ₄ nanostructures on Ni-foam: An efficient electrode material for supercapacitor applications. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12303-12314. | 7.1 | 47 |
| 13 | Effect of solvents on the morphology of NiCo ₂ O ₄ /graphene nanostructures for electrochemical pseudocapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1837-1844. | 2.5 | 43 |
| 14 | Charge storage, electrocatalytic and sensing activities of nest-like nanostructured Co ₃ O ₄ . <i>Journal of Colloid and Interface Science</i> , 2017, 487, 20-30. | 9.4 | 38 |
| 15 | Facile hydrothermal synthesis of urchin-like cobalt manganese spinel for high-performance supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 17-27. | 9.4 | 37 |
| 16 | Hierarchically Organized NiCo ₂ O ₄ Microflowers Anchored on Multiwalled Carbon Nanotubes: Efficient Bifunctional Electrocatalysts for Oxygen and Hydrogen Evolution Reactions. <i>ChemPlusChem</i> , 2020, 85, 183-194. | 2.8 | 33 |
| 17 | Spinel ZnCo ₂ O ₄ nanosheets as carbon and binder free electrode material for energy storage and electroreduction of H ₂ O ₂ . <i>Journal of Alloys and Compounds</i> , 2017, 696, 947-955. | 5.5 | 32 |
| 18 | In situ grown nano-architectures of Co ₃ O ₄ on Ni-foam for charge storage application. <i>Journal of Chemical Sciences</i> , 2017, 129, 157-166. | 1.5 | 26 |

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|----|---|-----|-----------|
| 19 | Tuning the Surface Morphology and Pseudocapacitance of MnO ₂ by a Facile Green Method Employing Organic Reducing Sugars. ACS Applied Energy Materials, 2018, 1, 3654-3664. | 5.1 | 21 |
| 20 | A Vanadium(V) Oxide Nanorod Promoted Platinum/Reduced Graphene Oxide Electrocatalyst for Alcohol Oxidation under Acidic Conditions. ChemPhysChem, 2016, 17, 3524-3534. | 2.1 | 18 |
| 21 | Influence of Chloride Ion Substitution on Lithium-Ion Conductivity and Electrochemical Stability in a Dual-Halogen Solid-State Electrolyte. ACS Applied Materials & Interfaces, 2022, 14, 25448-25456. | 8.0 | 14 |
| 22 | High Electrocatalytic Activity of Pt/C Catalyst Promoted by Ti ₂ O ₅ Nanoparticles under Acidic Conditions. ChemistrySelect, 2017, 2, 4204-4212. | 1.5 | 11 |
| 23 | Activated ZrC Promotes the Methanol Electrooxidation Activity and Enhances Poison Tolerance of Pt Nanoparticles in Acidic Medium. ChemistrySelect, 2020, 5, 7205-7216. | 1.5 | 7 |
| 24 | Hierarchical γ -MnO ₂ nanowires as an efficient anode material for rechargeable lithium-ion batteries. Materials Advances, 2022, 3, 1642-1651. | 5.4 | 5 |
| 25 | Tungsten Oxytetrachloride as a Positive Electrode for Chloride-Ion Batteries. Energy Technology, 2022, 10, . | 3.8 | 3 |
| 26 | Optimizing conditions and improved electrochemical performance of layered LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode material for Li-ion batteries. Ionics, 2022, 28, 229-240. | 2.4 | 2 |
| 27 | Electrochemical lithium and sodium insertion studies in 3D metal oxy-phosphate framework MoWO ₃ (PO ₄) ₂ for battery applications. Journal of Solid State Electrochemistry, 2021, 25, 2675. | 2.5 | 0 |