

Ediga Umeshbabu

List of Publications by Year in descending order

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27
papers

1,441
citations

394421

19
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Ionics</i> , 2022, 28, 229-240.	2.4	2
2	Hierarchical γ -MnO ₂ nanowires as an efficient anode material for rechargeable lithium-ion batteries. <i>Materials Advances</i> , 2022, 3, 1642-1651.	5.4	5
3	Influence of Chloride Ion Substitution on Lithium-Ion Conductivity and Electrochemical Stability in a Dual-Halogen Solid-State Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25448-25456.	8.0	14
4	Tungsten Oxytetrachloride as a Positive Electrode for Chloride-Ion Batteries. <i>Energy Technology</i> , 2022, 10, .	3.8	3
5	Electrochemical lithium and sodium insertion studies in 3D metal oxy-phosphate framework MoWO ₃ (PO ₄) ₂ for battery applications. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2675.	2.5	0
6	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
7	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
8	Activated ZrC Promotes the Methanol Electrooxidation Activity and Enhances Poison Tolerance of Pt Nanoparticles in Acidic Medium. <i>ChemistrySelect</i> , 2020, 5, 7205-7216.	1.5	7
9	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
10	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
11	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
12	Tuning the Surface Morphology and Pseudocapacitance of MnO ₂ by a Facile Green Method Employing Organic Reducing Sugars. <i>ACS Applied Energy Materials</i> , 2018, 1, 3654-3664.	5.1	21
13	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
14	High Electrocatalytic Activity of Pt/C Catalyst Promoted by TaNb ₂ O ₅ Nanoparticles under Acidic Conditions. <i>ChemistrySelect</i> , 2017, 2, 4204-4212.	1.5	11
15	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
16	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
17	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
18	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

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19	A Vanadium(V) Oxide Nanorod Promoted Platinum/Reduced Graphene Oxide Electrocatalyst for Alcohol Oxidation under Acidic Conditions. <i>ChemPhysChem</i> , 2016, 17, 3524-3534.	2.1	18
20	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
21	Vanadium pentoxide nanochains for high-performance electrochemical supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 210-219.	9.4	64
22	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
23	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
24	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
25	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
26	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
27	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