

Vidyanand Vijayakumar

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

985
citations

687363

13
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

1191
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc ion interactions in a two-dimensional covalent organic framework based aqueous zinc ion battery. <i>Chemical Science</i> , 2019, 10, 8889-8894.	7.4	220
2	<i>In situ</i> polymerization process: an essential design tool for lithium polymer batteries. <i>Energy and Environmental Science</i> , 2021, 14, 2708-2788.	30.8	140
3	Convergent Covalent Organic Framework Thin Sheets as Flexible Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28139-28146.	8.0	134
4	An all-solid-state-supercapacitor possessing a non-aqueous gel polymer electrolyte prepared using a UV-assisted in situ polymerization strategy. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8461-8476.	10.3	83
5	Dendrite Growth Suppression by Zn ²⁺ -Integrated Nafion Ionomer Membranes: Beyond Porous Separators toward Aqueous Zn/V ₂ O ₅ Batteries with Extended Cycle Life. <i>Energy Technology</i> , 2019, 7, 1900442.	3.8	76
6	High-Performance Flexible Solid-State Supercapacitor with an Extended Nanoregime Interface through in Situ Polymer Electrolyte Generation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1233-1241.	8.0	59
7	Weak Intermolecular Interactions in Covalent Organic Framework-Carbon Nanofiber Based Crystalline yet Flexible Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30828-30837.	8.0	54
8	Nafion Ionomer-Based Single Component Electrolytes for Aqueous Zn/MnO ₂ Batteries with Long Cycle Life. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5040-5049.	6.7	37
9	Dioxolanone-Anchored Poly(allyl ether)-Based Cross-Linked Dual-Salt Polymer Electrolytes for High-Voltage Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 567-579.	8.0	31
10	A rationally designed self-standing V ₂ O ₅ electrode for high voltage non-aqueous all-solid-state symmetric (2.0 V) and asymmetric (2.8 V) supercapacitors. <i>Nanoscale</i> , 2018, 10, 8741-8751.	5.6	30
11	An In Situ Cross-Linked Nonaqueous Polymer Electrolyte for Zinc-Metal Polymer Batteries and Hybrid Supercapacitors. <i>Small</i> , 2020, 16, e2002528.	10.0	24
12	Scalable Synthesis of Manganese-Doped Hydrated Vanadium Oxide as a Cathode Material for Aqueous Zinc-Metal Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48542-48552.	8.0	21
13	Water-in-Acid Gel Polymer Electrolyte Realized through a Phosphoric Acid-Enriched Polyelectrolyte Matrix toward Solid-State Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12630-12640.	6.7	17
14	Interconnected polyaniline nanostructures: Enhanced interface for better supercapacitance retention. <i>Polymer</i> , 2021, 212, 123169.	3.8	12
15	Naphthalene dianhydride organic anode for a "rocking-chair" zinc-proton hybrid ion-battery. <i>Dalton Transactions</i> , 2021, 50, 4237-4243.	3.3	12
16	Unravelling the Mechanism of Electrochemical Degradation of PANI in Supercapacitors: Achieving a Feasible Solution. <i>ChemElectroChem</i> , 2016, 3, 933-942.	3.4	10
17	Synthesis of Carbon Nanosheets and Nitrogen-Doped Carbon Nanosheets from Perylene Derivatives for Supercapacitor Application. <i>ACS Applied Nano Materials</i> , 2018, 1, 4576-4586.	5.0	10
18	In Situ Preparation of Ionomer as a Tool for Triple-Phase Boundary Enhancement in 3D Graphene Supported Pt Catalyst. <i>Advanced Sustainable Systems</i> , 2021, 5, .	5.3	6

#	ARTICLE	IF	CITATIONS
19	A sulfonated polyvinyl alcohol ionomer membrane favoring smooth electrodeposition of zinc for aqueous rechargeable zinc metal batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5557-5564.	4.9	3
20	The role and the necessary features of electrolytes for microsupercapacitors. , 2022, , 47-116.		3
21	Electrodeposited Layered Sodium Vanadyl Phosphate ($\text{Na}_x\text{VOPO}_4 \cdot n\text{H}_2\text{O}$) as Cathode Material for Aqueous Rechargeable Zinc Metal Batteries. <i>Energy & Fuels</i> , 2022, 36, 6520-6531.	5.1	3