

Binson Babu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

902
citations

687220

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h-index

677027

22
g-index

24
all docs

24
docs citations

24
times ranked

1204
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Charging Materials for High Power Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2001128.	10.2	136
2	TiNb ₂ O ₇ /Graphene hybrid material as high performance anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 176, 285-292.	2.6	99
3	High performance sodium-ion hybrid capacitor based on Na ₂ Ti ₂ O ₄ (OH) ₂ nanostructures. <i>Journal of Power Sources</i> , 2017, 353, 85-94.	4.0	95
4	Ti ³⁺ Induced Brown TiO ₂ Nanotubes for High Performance Sodium-Ion Hybrid Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5401-5412.	3.2	77
5	Nb ₂ O ₅ /graphene nanocomposites for electrochemical energy storage. <i>RSC Advances</i> , 2015, 5, 59997-60004.	1.7	63
6	Nanostructured Na ₂ Ti ₉ O ₁₉ for Hybrid Sodium-Ion Capacitors with Excellent Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 437-447.	4.0	63
7	Li-ion capacitor based on activated rice husk derived porous carbon with improved electrochemical performance. <i>Electrochimica Acta</i> , 2016, 211, 289-296.	2.6	61
8	Studies on kinetics and diffusion characteristics of lithium ions in TiNb ₂ O ₇ . <i>Electrochimica Acta</i> , 2020, 345, 136208.	2.6	61
9	Enhanced electrochemical properties of Mn ₃ O ₄ /graphene nanocomposite as efficient anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 780, 588-596.	2.8	52
10	Î ³ -MnOOH nanorods: Efficient adsorbent for removal of methylene blue from aqueous solutions. <i>Journal of Water Process Engineering</i> , 2017, 19, 1-7.	2.6	35
11	Hierarchically Engineered Nanocarbon Florets as Bifunctional Electrode Materials for Adsorptive and Intercalative Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42669-42677.	4.0	29
12	Ti-Containing Graphite for Sodium-Ion Batteries and Hybrid Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 173-182.	2.4	27
13	Exfoliation of Reduced Graphene Oxide with Self-Assembled Î-Gelators for Improved Electrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19417-19426.	4.0	22
14	Self-discharge of lithium-ion capacitors. <i>Journal of Power Sources Advances</i> , 2020, 5, 100026.	2.6	15
15	Î ³ -MnOOH-graphene nanocomposite as promising anode material for Li-ion capacitors. <i>Journal of Energy Storage</i> , 2022, 47, 103636.	3.9	15
16	Engineered Carbon Electrodes for High Performance Capacitive and Hybrid Energy Storage. <i>Journal of Energy Storage</i> , 2021, 35, 102340.	3.9	12
17	Eco-Efficient Synthesis of Graphene Nanoribbons and Its Application in Electrochemical Supercapacitors. <i>Graphene</i> , 2013, 1, 37-44.	0.2	9
18	New Diglyme-based Gel Polymer Electrolytes for Na-based Energy Storage Devices. <i>ChemSusChem</i> , 2021, 14, 4836-4845.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Aging processes in high voltage lithium-ion capacitors containing liquid and gel-polymer electrolytes. Journal of Power Sources, 2021, 496, 229797.	4.0	7
20	Understanding How Degree of Crystallinity Affects Electrochemical Kinetics of Sodium ⁺ Ion in Brown TiO ₂ Nanotubes. ChemElectroChem, 2021, 8, 2180-2185.	1.7	6
21	Materials, electrodes and electrolytes advances for next-generation lithium-based anode-free batteries. Oxford Open Materials Science, 2022, 2, .	0.5	5
22	Lithium ⁺ Ion ⁺ Based Electrochemical Energy Storage in a Layered Vanadium Formate Coordination Polymer. ChemPlusChem, 2020, 85, 1137-1144.	1.3	3
23	Understanding How Degree of Crystallinity Affects Electrochemical Kinetics of Sodium ⁺ Ion in Brown TiO ₂ Nanotubes. ChemElectroChem, 2021, 8, 2153-2154.	1.7	1