

Balaji Sambandam

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11706042/publications.pdf>

Version: 2024-02-01

43
papers

3,026
citations

201575

27
h-index

265120

42
g-index

44
all docs

44
docs citations

44
times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	An analysis of the electrochemical mechanism of manganese oxides in aqueous zinc batteries. <i>CheM</i> , 2022, 8, 924-946.	5.8	92
2	Triggering the theoretical capacity of Na _{1.1} V ₃ O _{7.9} nanorod cathode by polypyrrole coating for high-energy zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 137069.	6.6	23
3	Recent Achievements in Experimental and Computational Studies of Positive Electrode Materials for Nonaqueous Ca- and Al-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9209-9227.	1.5	5
4	A new tellurium-based Ni ₃ TeO ₆ -carbon nanotubes composite anode for Na-ion battery. <i>International Journal of Energy Research</i> , 2022, 46, 16041-16049.	2.2	6
5	Hyper oxidized V ₆ O ₁₃ +nH ₂ O layered cathode for aqueous rechargeable Zn battery: Effect on dual carriers transportation and parasitic reactions. <i>Energy Storage Materials</i> , 2021, 35, 47-61.	9.5	38
6	Recent Developments of Zinc-Ion Batteries. , 2021, , 27-57.		1
7	Microwave-Assisted Rapid Synthesis of NH ₄ V ₄ O ₁₀ Layered Oxide: A High Energy Cathode for Aqueous Rechargeable Zinc Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 1905.	1.9	8
8	Chromium doping into NASICON-structured Na ₃ V ₂ (PO ₄) ₃ cathode for high-power Na-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 422, 130052.	6.6	58
9	Validating the Structural (In)stability of P ₃ - and P ₂ -Na _{0.67} Mg _{0.1} Mn _{0.9} O ₂ -Layered Cathodes for Sodium-Ion Batteries: A Time-Decisive Approach. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53877-53891.	4.0	10
10	Na _{2.3} Cu _{1.1} Mn ₂ O ₇ nanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. <i>Journal of Materials Chemistry A</i> , 2020, 8, 770-778.	5.2	20
11	The dominant role of Mn ²⁺ additive on the electrochemical reaction in ZnMn ₂ O ₄ cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2020, 28, 407-417.	9.5	175
12	High lithium storage properties in a manganese sulfide anode <i>via</i> an intercalation-cum-conversion reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17537-17549.	5.2	15
13	Multidimensional Na ₄ VMn _{0.9} Cu _{0.1} (PO ₄) ₃ /C cotton-candy cathode materials for high energy Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12055-12068.	5.2	48
14	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <i>ACS Energy Letters</i> , 2020, 5, 2376-2400.	8.8	303
15	K ⁺ intercalated V ₂ O ₅ nanorods with exposed facets as advanced cathodes for high energy and high rate zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20335-20347.	5.2	116
16	A Versatile Pyramidal Hauerite Anode in Congeniality Diglyme-Based Electrolytes for Boosting Performance of Li- and Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900710.	10.2	29
17	Phase-pure Na ₃ V ₂ (PO ₄) ₂ F ₃ embedded in carbon matrix through a facile polyol synthesis as a potential cathode for high performance sodium-ion batteries. <i>Nano Research</i> , 2019, 12, 911-917.	5.8	38
18	A new rechargeable battery based on a zinc anode and a NaV ₆ O ₁₅ nanorod cathode. <i>Chemical Communications</i> , 2019, 55, 3793-3796.	2.2	51

#	ARTICLE	IF	CITATIONS
19	Facile synthesis of pyrite (FeS_2/C) nanoparticles as an electrode material for non-aqueous hybrid electrochemical capacitors. <i>Nanoscale</i> , 2018, 10, 5938-5949.	2.8	48
20	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy $\text{Zn}_2\text{V}_2\text{O}_7$ nanowire cathode through intercalation regulation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3850-3856.	5.2	293
21	$\text{Ni}_3\text{V}_2\text{O}_8$ nanoparticles as an excellent anode material for high-energy lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018, 810, 34-40.	1.9	27
22	$\text{Na}_2\text{V}_6\text{O}_{16} \cdot 3\text{H}_2\text{O}$ Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. <i>Nano Letters</i> , 2018, 18, 2402-2410.	4.5	461
23	Metal organic framework-combustion: A one-pot strategy to NiO nanoparticles with excellent anode properties for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 300-305.	7.1	28
24	Dandelion-shaped manganese sulfide in ether-based electrolyte for enhanced performance sodium-ion batteries. <i>Communications Chemistry</i> , 2018, 1, .	2.0	37
25	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy MgMn_2O_4 Cathode. <i>ACS Energy Letters</i> , 2018, 3, 1998-2004.	8.8	159
26	$\text{K}_2\text{V}_6\text{O}_{16} \cdot 2.7\text{H}_2\text{O}$ nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15530-15539.	5.2	201
27	Synthesis, characterization and performance of visible light active C-TiO_2 for pharmaceutical photodegradation. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 757-767.	3.3	41
28	One step pyro-synthesis process of nanostructured $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ cathode for rechargeable Li-ion batteries. <i>Materials Today Communications</i> , 2017, 10, 105-111.	0.9	13
29	Facile green synthesis of a $\text{Co}_3\text{V}_2\text{O}_8$ nanoparticle electrode for high energy lithium-ion battery applications. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 133-141.	5.0	39
30	Investigation of Li-ion storage properties of earth abundant $\text{Fe}_2\text{-Mn}_2\text{V}_2\text{O}_7$ prepared using facile green strategy. <i>Journal of Power Sources</i> , 2017, 350, 80-86.	4.0	50
31	$\text{Zn}_3\text{V}_2\text{O}_8$ porous morphology derived through a facile and green approach as an excellent anode for high-energy lithium ion batteries. <i>Chemical Engineering Journal</i> , 2017, 328, 454-463.	6.6	67
32	Bitter gourd-shaped $\text{Ni}_3\text{V}_2\text{O}_8$ anode developed by a one-pot metal-organic framework-combustion technique for advanced Li-ion batteries. <i>Ceramics International</i> , 2017, 43, 13224-13232.	2.3	42
33	A sponge network-shaped $\text{Mn}_3\text{O}_4/\text{C}$ anode derived from a simple, one-pot metal organic framework-combustion technique for improved lithium ion storage. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1609-1615.	3.0	31
34	Metal-organic framework-combustion: a new, cost-effective and one-pot technique to produce a porous $\text{Co}_3\text{V}_2\text{O}_8$ microsphere anode for high energy lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14605-14613.	5.2	64
35	$\text{Co}_3\text{V}_2\text{O}_8$ Sponge Network Morphology Derived from Metal-Organic Framework as an Excellent Lithium Storage Anode Material. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8546-8553.	4.0	139
36	Rapid Synthesis of C-TiO_2 : Tuning the Shape from Spherical to Rice Grain Morphology for Visible Light Photocatalytic Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1321-1329.	3.2	75

#	ARTICLE	IF	CITATIONS
37	Oxygen vacancies and intense luminescence in manganese loaded ZnO microflowers for visible light water splitting. <i>Nanoscale</i> , 2015, 7, 13935-13942.	2.8	54
38	Spectroscopic dimensions of silver nanoparticles and clusters in ZnO matrix and their role in bioinspired antifouling and photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8541.	1.3	62
39	Davydov splitting in cadmium vacancy emission, ferromagnetism and photosensitivity in manganese incorporated CdS nanocrystals. <i>RSC Advances</i> , 2014, 4, 22141-22154.	1.7	6
40	Coexistence of antiferromagnetism and ferromagnetism in Mn ²⁺ /CdS nanocrystals and their photophysical properties. <i>RSC Advances</i> , 2013, 3, 5184.	1.7	14
41	Manganous ion dictated morphology change and ferromagnetism in CdS nanocrystals. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	11
42	Switching on Antiferromagnetic Coupled Superparamagnetism by Annealing Ferromagnetic Mn/CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11413-11419.	1.5	18
43	Davydov Split PL Emission and EPR Correlation in $\hat{\Gamma}^2$ -MnS Layered CdS Nanorods. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9486-9496.	1.5	10