

Zhengsheng Hong

List of Publications by Year in descending order

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52
papers

2,058
citations

201674

27
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44
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docs citations

55
times ranked

2862
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational Design and General Synthesis of N-Doped Hard Carbon with Tunable Doping Sites toward Excellent Na-ion Storage Performance. <i>Advanced Materials</i> , 2018, 30, e1802035.	21.0	239
2	Additive-free synthesis of unique TiO ₂ mesocrystals with enhanced lithium-ion intercalation properties. <i>Energy and Environmental Science</i> , 2012, 5, 5408-5413.	30.8	145
3	Complex spinel titanate nanowires for a high rate lithium-ion battery. <i>Energy and Environmental Science</i> , 2011, 4, 1886.	30.8	115
4	Layered titanate nanostructures and their derivatives as negative electrode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4403.	10.3	84
5	A Potentiometric Addressable Photoelectrochemical Biosensor for Sensitive Detection of Two Biomarkers. <i>Analytical Chemistry</i> , 2016, 88, 9532-9538.	6.5	84
6	Facile synthesis of rutile TiO ₂ mesocrystals with enhanced sodium storage properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17412-17416.	10.3	80
7	Hierarchically porous TiO ₂ microspheres as a high performance anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1102-1106.	10.3	72
8	Iso-Oriented Anatase TiO ₂ Mesocages as a High Performance Anode Material for Sodium-Ion Storage. <i>Scientific Reports</i> , 2015, 5, 11960.	3.3	66
9	Synthesis of Mesoporous Co ²⁺ -Doped TiO ₂ Nanodisks Derived from Metal Organic Frameworks with Improved Sodium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32071-32079.	8.0	64
10	Metal-organic frameworks: Promising materials for enhancing electrochemical properties of nanostructured Zn ₂ SnO ₄ anode in Li-ion batteries. <i>CrystEngComm</i> , 2012, 14, 2112.	2.6	56
11	New insights into carbon-based and MXene anodes for Na and K-ion storage: A review. <i>Journal of Energy Chemistry</i> , 2021, 62, 660-691.	12.9	56
12	Rational design of Co ₃ O ₄ /Co/carbon nanocages composites from metal organic frameworks as an advanced lithium-ion battery anode. <i>Chemical Engineering Journal</i> , 2017, 316, 137-145.	12.7	54
13	Breaking the limitation of sodium-ion storage for nanostructured carbon anode by engineering desolvation barrier with neat electrolytes. <i>Nano Energy</i> , 2020, 74, 104895.	16.0	49
14	A new anode material made of Zn ₂ Ti ₃ O ₈ nanowires: synthesis and electrochemical properties. <i>Chemical Communications</i> , 2010, 46, 740-742.	4.1	47
15	SPINEL Li ₂ MTi ₃ O ₈ (M = Mg, Tj) ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 STORAGE. <i>Functional Materials Letters</i> , 2011, 04, 65-69.	1.2	46
16	Ultrafast synthesis of hard carbon anodes for sodium-ion batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	45
17	Photoelectrochemical biosensor constructed using TiO ₂ mesocrystals based multipurpose matrix for trypsin detection. <i>Biosensors and Bioelectronics</i> , 2017, 92, 687-694.	10.1	44
18	Unique Ordered TiO ₂ Superstructures with Tunable Morphology and Crystalline Phase for Improved Lithium Storage Properties. <i>Chemistry - A European Journal</i> , 2012, 18, 10753-10760.	3.3	43

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19	The photoelectrochemical exploration of multifunctional TiO ₂ mesocrystals and its enzyme-assisted biosensing application. <i>Biosensors and Bioelectronics</i> , 2015, 72, 18-24.	10.1	43
20	Spatially Controlled Lithium Deposition on Silver Nanocrystals Decorated TiO ₂ Nanotube Arrays Enabling Ultrastable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2021, 31, 2009605.	14.9	40
21	A multi-functional gum arabic binder for NiFe ₂ O ₄ nanotube anodes enabling excellent Li/Na-ion storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18138-18147.	10.3	35
22	Mesoporous NiCo ₂ O ₄ nanosheets with enhance sodium ion storage properties. <i>Journal of Alloys and Compounds</i> , 2015, 651, 24-28.	5.5	32
23	Significant reduction of harmful compounds in tobacco smoke by the use of titanate nanosheets and nanotubes. <i>Chemical Communications</i> , 2011, 47, 6153.	4.1	31
24	A ratiometric biosensor for metallothionein based on a dual heterogeneous electro-chemiluminescent response from a TiO ₂ mesocrystalline interface. <i>Chemical Communications</i> , 2015, 51, 7697-7700.	4.1	30
25	Structural evolution from layered Na ₂ Ti ₃ O ₇ to Na ₂ Ti ₆ O ₁₃ nanowires enabling a highly reversible anode for Mg-ion batteries. <i>Nanoscale</i> , 2020, 12, 230-238.	5.6	30
26	Cation-deficient TiO ₂ (B) nanowires with protons charge compensation for regulating reversible magnesium storage. <i>Nano Energy</i> , 2020, 72, 104716.	16.0	30
27	ULTRATHIN Li ₄ Ti ₅ O ₁₂ NANOSHEETS AS A HIGH PERFORMANCE ANODE FOR Li-ION BATTERY. <i>Functional Materials Letters</i> , 2011, 04, 389-393.	1.2	28
28	A bifunctional reagent regulated ratiometric electrochemiluminescence biosensor constructed on surfactant-assisted synthesis of TiO ₂ mesocrystals for the sensing of deoxynivalenol. <i>Talanta</i> , 2019, 196, 600-607.	5.5	28
29	Swallowing Lithium Dendrites in All-Solid-State Battery by Lithiation with Silicon Nanoparticles. <i>Advanced Science</i> , 2022, 9, e2103786.	11.2	27
30	Engineering of a TiO ₂ anode toward a record high Initial coulombic efficiency enabling high-performance low-temperature Na-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22840-22850.	10.3	26
31	Carbon coated transition metal borates as anode materials for Na-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 375, 121998.	12.7	26
32	All-in-one bioprobe devised with hierarchical-ordered magnetic NiCo ₂ O ₄ superstructure for ultrasensitive dual-readout immunosensor for logic diagnosis of tumor marker. <i>Biosensors and Bioelectronics</i> , 2016, 77, 928-935.	10.1	24
33	Self-Assembled Synthesis of Mesocrystalline TiO ₂ @C-rGO Hybrid Nanostructures for Highly Reversible Sodium Storage. <i>Crystal Growth and Design</i> , 2016, 16, 6605-6612.	3.0	22
34	An interlayer defect promoting the doping of the phosphate group into TiO ₂ (B) nanowires with unusual structure properties towards ultra-fast and ultra-stable sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16937-16946.	10.3	19
35	Vitreum Etching-Assisted Fabrication of Porous Hollow Carbon Architectures for Enhanced Capacitive Sodium and Potassium Ion Storage. <i>Small</i> , 2021, 17, e2100538.	10.0	18
36	Electrochemiluminescent competitive immunoassay for zearalenone based on the use of a mimotope peptide, Ru(II)(bpy) ₃ -loaded NiFe ₂ O ₄ nanotubes and TiO ₂ mesocrystals. <i>Mikrochimica Acta</i> , 2019, 186, 608.	5.0	16

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37	A self-enhanced renewable electrochemiluminescence biosensing platform for ultrasensitive detection of sialic acid. <i>Electrochimica Acta</i> , 2019, 326, 134956.	5.2	16
38	Enhanced electrochemiluminescence of luminol-DBAE system based on self-assembled mesocrystalline hybrid for the detection of ovarian cancer marker. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 608-615.	7.8	16
39	Strategies for Electrochemically Sustainable H ₂ Production in Acid. <i>Advanced Science</i> , 2022, 9, e2104916.	11.2	15
40	Understanding the growth and photoelectrochemical properties of mesocrystals and single crystals: a case of anatase TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7441-7447.	2.8	14
41	In Situ Observation of the Insulator-To-Metal Transition and Nonequilibrium Phase Transition for Li _{1-x} CoO ₂ Films with Preferred (003) Orientation Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33043-33053.	8.0	14
42	Facile fabrication of highly porous TiO ₂ microrods anode with enhanced Al-ion storage for hybrid capacitors. <i>Journal of Power Sources</i> , 2020, 453, 227857.	7.8	13
43	Integrated heterojunction and photothermal effect multiple enhanced ratiometric electrochemiluminescence immunosensor based on calcination controlled and tunable TiO ₂ mesocrystals. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130565.	7.8	12
44	A bifunctional catalyst based ECL immunosensor for a cardiac biomarker regulated by oxygen evolution reaction. <i>Electrochimica Acta</i> , 2016, 215, 326-333.	5.2	11
45	Enhanced sodium ion batteries performance by the phase transition from hierarchical Fe ₂ O ₃ to Fe ₃ O ₄ hollow nanostructures. <i>Materials Letters</i> , 2017, 190, 52-55.	2.6	11
46	Sodiophilic skeleton based on the packing of hard carbon microspheres for stable sodium metal anode without dead sodium. <i>Journal of Energy Chemistry</i> , 2022, 73, 400-406.	12.9	11
47	Enhanced Electrochemical Performances of Cu/Cu _x O-Composite-Decorated LiFePO ₄ through a Facile Magnetron Sputtering. <i>ACS Applied Energy Materials</i> , 2019, 2, 4652-4663.	5.1	8
48	Ultrastable sodium metal plating/stripping by engineering heterogeneous nucleation on TiO ₂ nanotube arrays. <i>Chemical Engineering Journal</i> , 2022, 431, 134272.	12.7	8
49	Highly sensitive and stabilized sensing of 6-benzylaminopurine based on NiCo ₂ O ₄ nanosuperstructures. <i>RSC Advances</i> , 2016, 6, 4758-4763.	3.6	6
50	Recent Progress in Preparation and Lithium-ion Storage Properties of TiO ₂ Mesocrystals. <i>Journal of the Chinese Chemical Society</i> , 2015, 62, 209-216.	1.4	5
51	A General Synthesis of Mesoporous Hollow Carbon Spheres with Extraordinary Sodium Storage Kinetics by Engineering Solvation Structure. <i>Small</i> , 2022, 18, e2106513.	10.0	4
52	Highly Efficient Degradation of Tobacco Specific N-Nitrosamines by TiO ₂ Mesocrystals with Robust and Tailored Microporous Structure. <i>ChemistrySelect</i> , 2018, 3, 10266-10270.	1.5	0