Cai-Hong Liu

List of Publications by Year
in descending order

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30 papers	2,507 citations	471371 17 h-index	501076 28 g-index
31 all docs	31 docs citations	31 times ranked	4412 citing authors

#	Article	IF	Citations
1	Li₃BN₂ as a Transition Metal Free, High Capacity Cathode for Liâ€ion Batteries. ChemElectroChem, 2019, 6, 320-325.	1.7	9
2	A High Capacity, Room Temperature, Hybrid Flow Battery Consisting of Liquid Na-Cs Anode and Aqueous NaI Catholyte. Batteries, 2018, 4, 60.	2.1	5
3	New Mechanism for the Reduction of Vanadyl Acetylacetonate to Vanadium Acetylacetonate for Room Temperature Flow Batteries. ChemSusChem, 2017, 10, 533-540.	3.6	12
4	Tunable UV response and high performance of zinc stannate nanoparticle film photodetectors. Journal of Materials Chemistry C, 2016, 4, 6176-6184.	2.7	32
5	An Ambient Temperature Molten Sodiumâ€“Vanadium Battery with Aqueous Flowing Catholyte. ACS Applied Materials & Interfaces, 2016, 8, 1545-1552.	4.0	17
6	Nanoparticulate Materials and Core/Shell Structures Derived from Wet Chemistry Methods. , 2016, , 2579-2597.		0
7	Na3MnCO3PO4 â€“ A High Capacity, Multi-Electron Transfer Redox Cathode Material for Sodium Ion Batteries. Electrochimica Acta, 2015, 161, 322-328.	2.6	62
8	Room Temperature, Hybrid Sodium-Based Flow Batteries with Multi-Electron Transfer Redox Reactions. Scientific Reports, 2015, 5, 11215.	1.6	16
9	PVP-Assisted Synthesis of Uniform Carbon Coated Li₂S/CB for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2015, 7, 25748-25756.	4.0	56
10	Nanoparticulate Materials and Core/Shell Structures Derived from Wet Chemistry Methods. , 2015, , 1-21.		3
11	Controlled synthesis and structure tunability of photocatalytically active mesoporous metal-based stannate nanostructures. Applied Surface Science, 2014, 296, 53-60.	3.1	24
12	Highly efficient visible-light driven photocatalysts: a case of zinc stannate based nanocrystal assemblies. Journal of Materials Chemistry A, 2014, 2, 4157-4167.	5.2	40
13	Li₂S encapsulated by nitrogen-doped carbon for lithium sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 18026-18032.	5.2	90
14	Nonprecious catalytic honeycombs structured with three dimensional hierarchical Co3O4 nano-arrays for high performance nitric oxide oxidation. Journal of Materials Chemistry A, 2013, 1, 9897.	5.2	73
15	Robust 3-D configurated metal oxide nano-array based monolithic catalysts with ultrahigh materials usage efficiency and catalytic performance tunability. Nano Energy, 2013, 2, 873-881.	8.2	76
16	Microencapsulation of Biobased Phase Change Material by Interfacial Polycondensation for Thermal Energy Storage Applications. Journal of Biobased Materials and Bioenergy, 2013, 7, 331-335.	0.1	10
17	Hierarchically nanostructured materials for sustainable environmental applications. Frontiers in Chemistry, 2013, 1, 18.	1.8	62
18	Hierarchical Assembly of Multifunctional Oxide-based Composite Nanostructures for Energy and Environmental Applications. International Journal of Molecular Sciences, 2012, 13, 7393-7423.	1.8	37

#	Article	IF	Citations
19	In situ TPR removal: a generic method for fabricating tubular array devices with mechanical and structural soundness, and functional robustness on various substrates. Journal of Materials Chemistry, 2012, 22, 23098.	6.7	14
20	Synthesis and Thermal Degradation of Fire-Retardant Zinc Hydroxystannate Nanocube Coated Textiles. Science of Advanced Materials, 2012, 4, 819-824.	0.1	2
21	The experimental exploration of carbon nanofiber and carbon nanotube additives on thermal behavior of phase change materials. Solar Energy Materials and Solar Cells, 2011, 95, 1208-1212.	3.0	338
22	Silver nanowire-based transparent, flexible, and conductive thin film. Nanoscale Research Letters, 2011, 6, 75.	3.1	439
23	Chemical approaches towards single-species single-walled carbon nanotubes. Nanoscale, 2010, 2, 1901.	2.8	41
24	Shell-Controlled Photoluminescence in CdSe/CNT Nanohybrids. Nanoscale Research Letters, 2009, 4, 1146-52.	3.1	30
25	Selective interaction of a soluble pentacene derivative with metallic single-walled carbon nanotubes. Chemical Physics Letters, 2009, 471, 97-102.	1.2	7
26	Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. Nanotechnology, 2009, 20, 185504.	1.3	913
27	FIRST PRINCIPLES STUDY OF CYTOSINE ADSORPTION ON GRAPHENE. International Journal of Nanoscience, 2009, 08, 5-8.	0.4	5
28	Tandem extraction strategy for separation of metallic and semiconducting SWCNTs using condensed benzenoid molecules: effects of molecular morphology and solvent. Physical Chemistry Chemical Physics, 2009, 11, 7257.	1.3	18
29	Dye Assisted Separation of Single Wall Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2009, 9, 1254-1257.	0.9	3
30	Structure dependent interaction between organic dyes and carbon nanotubes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 9-12.	2.3	73