

# Cai-Hong Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. <i>Nanotechnology</i> , 2009, 20, 185504.	1.3	913
2	Silver nanowire-based transparent, flexible, and conductive thin film. <i>Nanoscale Research Letters</i> , 2011, 6, 75.	3.1	439
3	The experimental exploration of carbon nanofiber and carbon nanotube additives on thermal behavior of phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1208-1212.	3.0	338
4	Li <sub>2</sub> S encapsulated by nitrogen-doped carbon for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18026-18032.	5.2	90
5	Robust 3-D configured metal oxide nano-array based monolithic catalysts with ultrahigh materials usage efficiency and catalytic performance tunability. <i>Nano Energy</i> , 2013, 2, 873-881.	8.2	76
6	Structure dependent interaction between organic dyes and carbon nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 9-12.	2.3	73
7	Nonprecious catalytic honeycombs structured with three dimensional hierarchical Co <sub>3</sub> O <sub>4</sub> nano-arrays for high performance nitric oxide oxidation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9897.	5.2	73
8	Hierarchically nanostructured materials for sustainable environmental applications. <i>Frontiers in Chemistry</i> , 2013, 1, 18.	1.8	62
9	Na <sub>3</sub> MnCO <sub>3</sub> PO <sub>4</sub> – A High Capacity, Multi-Electron Transfer Redox Cathode Material for Sodium Ion Batteries. <i>Electrochimica Acta</i> , 2015, 161, 322-328.	2.6	62
10	PVP-Assisted Synthesis of Uniform Carbon Coated Li <sub>2</sub> S/CB for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25748-25756.	4.0	56
11	Chemical approaches towards single-species single-walled carbon nanotubes. <i>Nanoscale</i> , 2010, 2, 1901.	2.8	41
12	Highly efficient visible-light driven photocatalysts: a case of zinc stannate based nanocrystal assemblies. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4157-4167.	5.2	40
13	Hierarchical Assembly of Multifunctional Oxide-based Composite Nanostructures for Energy and Environmental Applications. <i>International Journal of Molecular Sciences</i> , 2012, 13, 7393-7423.	1.8	37
14	Tunable UV response and high performance of zinc stannate nanoparticle film photodetectors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6176-6184.	2.7	32
15	Shell-Controlled Photoluminescence in CdSe/CNT Nanohybrids. <i>Nanoscale Research Letters</i> , 2009, 4, 1146-52.	3.1	30
16	Controlled synthesis and structure tunability of photocatalytically active mesoporous metal-based stannate nanostructures. <i>Applied Surface Science</i> , 2014, 296, 53-60.	3.1	24
17	Tandem extraction strategy for separation of metallic and semiconducting SWCNTs using condensed benzenoid molecules: effects of molecular morphology and solvent. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7257.	1.3	18
18	An Ambient Temperature Molten Sodium-Vanadium Battery with Aqueous Flowing Catholyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1545-1552.	4.0	17

#	ARTICLE	IF	CITATIONS
19	Room Temperature, Hybrid Sodium-Based Flow Batteries with Multi-Electron Transfer Redox Reactions. <i>Scientific Reports</i> , 2015, 5, 11215.	1.6	16
20	In situ TPR removal: a generic method for fabricating tubular array devices with mechanical and structural soundness, and functional robustness on various substrates. <i>Journal of Materials Chemistry</i> , 2012, 22, 23098.	6.7	14
21	New Mechanism for the Reduction of Vanadyl Acetylacetonate to Vanadium Acetylacetonate for Room Temperature Flow Batteries. <i>ChemSusChem</i> , 2017, 10, 533-540.	3.6	12
22	Microencapsulation of Biobased Phase Change Material by Interfacial Polycondensation for Thermal Energy Storage Applications. <i>Journal of Biobased Materials and Bioenergy</i> , 2013, 7, 331-335.	0.1	10
23	Li <sub>3</sub> BN <sub>2</sub> as a Transition Metal Free, High Capacity Cathode for Li-ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 320-325.	1.7	9
24	Selective interaction of a soluble pentacene derivative with metallic single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2009, 471, 97-102.	1.2	7
25	FIRST PRINCIPLES STUDY OF CYTOSINE ADSORPTION ON GRAPHENE. <i>International Journal of Nanoscience</i> , 2009, 08, 5-8.	0.4	5
26	A High Capacity, Room Temperature, Hybrid Flow Battery Consisting of Liquid Na-Cs Anode and Aqueous NaI Catholyte. <i>Batteries</i> , 2018, 4, 60.	2.1	5
27	Dye Assisted Separation of Single Wall Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1254-1257.	0.9	3
28	Nanoparticulate Materials and Core/Shell Structures Derived from Wet Chemistry Methods. , 2015, , 1-21.		3
29	Synthesis and Thermal Degradation of Fire-Retardant Zinc Hydroxystannate Nanocube Coated Textiles. <i>Science of Advanced Materials</i> , 2012, 4, 819-824.	0.1	2
30	Nanoparticulate Materials and Core/Shell Structures Derived from Wet Chemistry Methods. , 2016, , 2579-2597.		0