

Bin Liu

List of Publications by Year in descending order

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papers

5,193
citations

172207

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39
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39
docs citations

39
times ranked

7944
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing Behavior of Atomically Thin-Layered MoS ₂ Transistors. ACS Nano, 2013, 7, 4879-4891.	7.3	1,158
2	Enhanced sensitivity of ammonia sensor using graphene/polyaniline nanocomposite. Sensors and Actuators B: Chemical, 2013, 178, 485-493.	4.0	425
3	NiCo ₂ O ₄ nanowire arrays supported on Ni foam for high-performance flexible all-solid-state supercapacitors. Journal of Materials Chemistry A, 2013, 1, 2468.	5.2	344
4	Morphology evolution of urchin-like NiCo ₂ O ₄ nanostructures and their applications as pseudocapacitors and photoelectrochemical cells. Journal of Materials Chemistry, 2012, 22, 21647.	6.7	310
5	Comparison of the Electrochemical Performance of NiMoO ₄ Nanorods and Hierarchical Nanospheres for Supercapacitor Applications. ACS Applied Materials & Interfaces, 2013, 5, 12905-12910.	4.0	267
6	High-Performance Supercapacitor Electrode Based on the Unique ZnO@Co ₃ O ₄ Core/Shell Heterostructures on Nickel Foam. ACS Applied Materials & Interfaces, 2014, 6, 15905-15912.	4.0	212
7	Construction of desirable NiCo ₂ S ₄ nanotube arrays on nickel foam substrate for pseudocapacitors with enhanced performance. Electrochimica Acta, 2015, 151, 35-41.	2.6	206
8	Enhanced Sensitivity and Stability of Room-Temperature NH ₃ Sensors Using Core-Shell CeO ₂ Nanoparticles@Cross-linked PANI with p-n Heterojunctions. ACS Applied Materials & Interfaces, 2014, 6, 14131-14140.	4.0	201
9	Three-Dimensional Co ₃ O ₄ @NiMoO ₄ Core/Shell Nanowire Arrays on Ni Foam for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2014, 6, 5050-5055.	4.0	198
10	Low-Temperature H ₂ S Detection with Hierarchical Cr-Doped WO ₃ Microspheres. ACS Applied Materials & Interfaces, 2016, 8, 9674-9683.	4.0	136
11	Construction of unique NiCo ₂ O ₄ nanowire@CoMoO ₄ nanoplate core/shell arrays on Ni foam for high areal capacitance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 4954.	5.2	134
12	Flexible, Planar-Integrated, All-Solid-State Fiber Supercapacitors with an Enhanced Distributed Capacitance Effect. Small, 2013, 9, 1998-2004.	5.2	133
13	A room-temperature NO ₂ gas sensor based on CuO nanoflakes modified with rGO nanosheets. Sensors and Actuators B: Chemical, 2021, 337, 129783.	4.0	132
14	Enhanced performance of supercapacitors with ultrathin mesoporous NiMoO ₄ nanosheets. Electrochimica Acta, 2014, 125, 294-301.	2.6	116
15	Facile hydrothermal synthesis of hierarchical ultrathin mesoporous NiMoO ₄ nanosheets for high performance supercapacitors. Electrochimica Acta, 2014, 115, 358-363.	2.6	110
16	SnO ₂ @TiO ₂ Heterojunction Nanostructures for Lithium-Ion Batteries and Self-Powered UV Photodetectors with Improved Performances. ChemElectroChem, 2014, 1, 108-115.	1.7	104
17	High performance and negative temperature coefficient of low temperature hydrogen gas sensors using palladium decorated tungsten oxide. Journal of Materials Chemistry A, 2015, 3, 1317-1324.	5.2	90
18	Morphology controlled synthesis of NiCo ₂ O ₄ nanosheet array nanostructures on nickel foam and their application for pseudocapacitors. Electrochimica Acta, 2014, 142, 118-124.	2.6	88

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19	Hierarchical carbon@Ni ₃ S ₂ @MoS ₂ double core-shell nanorods for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1319-1325.	5.2	87
20	High-temperature humidity sensors based on WO ₃ @SnO ₂ composite hollow nanospheres. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6854-6862.	5.2	84
21	Improved room-temperature hydrogen sensing performance of directly formed Pd/WO ₃ nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 28-34.	4.0	81
22	Enhanced selective acetone sensing characteristics based on Co-doped WO ₃ hierarchical flower-like nanostructures assembled with nanoplates. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 614-621.	4.0	70
23	Room-temperature hydrogen sensor based on grain-boundary controlled Pt decorated In ₂ O ₃ nanocubes. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 351-359.	4.0	68
24	High-performance room-temperature hydrogen sensors based on combined effects of Pd decoration and Schottky barriers. <i>Nanoscale</i> , 2013, 5, 2505.	2.8	58
25	Electrospun CeO ₂ nanoparticles/PVP nanofibers based high-frequency surface acoustic wave humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 730-737.	4.0	54
26	Ethanol-sensing performance of tin dioxide octahedral nanocrystals with exposed high-energy {111} and {332} facets. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10623.	5.2	46
27	Three-dimensional hierarchical SnO ₂ dodecahedral nanocrystals with enhanced humidity sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 704-714.	4.0	44
28	Temperature-Dependent Abnormal and Tunable p-n Response of Tungsten Oxide-Tin Oxide Based Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24887-24894.	4.0	39
29	A nanocomposite of tin dioxide octahedral nanocrystals exposed to high-energy facets anchored onto graphene sheets for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13990.	5.2	32
30	Tin dioxide dodecahedral nanocrystals anchored on graphene sheets with enhanced electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 159, 46-51.	2.6	28
31	Surrounding Sensitive Electronic Properties of Bi ₂ Te ₃ Nanoplates-Potential Sensing Applications of Topological Insulators. <i>Scientific Reports</i> , 2014, 4, 4639.	1.6	22
32	Gas modulating effect in room temperature ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 404-411.	4.0	22
33	Ultra-fast and highly-sensitive gas sensing arising from thin SnO ₂ inner wall supported hierarchical bilayer oxide hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 349-357.	4.0	21
34	Room-temperature H ₂ sensing interfered by CO based on interfacial effects in palladium-tungsten oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 966-972.	4.0	21
35	Non-enzymatic electrochemical glucose sensor based on NiMoO ₄ nanorods. <i>Nanotechnology</i> , 2015, 26, 145501.	1.3	20
36	Strongly coupled hybrid nanostructures for selective hydrogen detection - understanding the role of noble metals in reducing cross-sensitivity. <i>Nanoscale</i> , 2014, 6, 4758-4764.	2.8	12

#	ARTICLE	IF	CITATIONS
37	Architectures of tavorite $\text{LiFe}(\text{PO}_4)(\text{OH})_{0.5}\text{F}_{0.5}$ hierarchical microspheres and their lithium storage properties. <i>Nanoscale</i> , 2014, 6, 11041-11045.	2.8	12
38	Ionic liquid-assisted fabrication of copper hydroxyphosphate nanocrystals with exposed {100} facets for enhanced photocatalytic activity. <i>Nanotechnology</i> , 2015, 26, 031001.	1.3	7
39	Application of computational verb theory to gas recognition. , 2012, , .		1