

# Bin Liu

## List of Publications by Year in descending order

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39  
papers

5,193  
citations

172207

29  
h-index

315357

38  
g-index

39  
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39  
docs citations

39  
times ranked

7944  
citing authors

#	ARTICLE	IF	CITATIONS
1	A room-temperature NO <sub>2</sub> gas sensor based on CuO nanoflakes modified with rGO nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129783.	4.0	132
2	Room-temperature H <sub>2</sub> 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
3	Three-dimensional hierarchical SnO <sub>2</sub> dodecahedral nanocrystals with enhanced humidity sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 704-714.	4.0	44
4	Gas modulating effect in room temperature ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 404-411.	4.0	22
5	Ultra-fast and highly-sensitive gas sensing arising from thin SnO <sub>2</sub> inner wall supported hierarchical bilayer oxide hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 349-357.	4.0	21
6	Low-Temperature H <sub>2</sub> S Detection with Hierarchical Cr-Doped WO <sub>3</sub> Microspheres. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9674-9683.	4.0	136
7	Enhanced selective acetone sensing characteristics based on Co-doped WO <sub>3</sub> hierarchical flower-like nanostructures assembled with nanoplates. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 614-621.	4.0	70
8	Hierarchical carbon@Ni <sub>3</sub> S <sub>2</sub> @MoS <sub>2</sub> double core-shell nanorods for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1319-1325.	5.2	87
9	Electrospun CeO <sub>2</sub> 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
10	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
11	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
12	Non-enzymatic electrochemical glucose sensor based on NiMoO <sub>4</sub> nanorods. <i>Nanotechnology</i> , 2015, 26, 145501.	1.3	20
13	Temperature-Dependent Abnormal and Tunable p-n Response of Tungsten Oxide-Tin Oxide Based Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24887-24894.	4.0	39
14	High performance and negative temperature coefficient of low temperature hydrogen gas sensors using palladium decorated tungsten oxide. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1317-1324.	5.2	90
15	Construction of desirable NiCo <sub>2</sub> S <sub>4</sub> nanotube arrays on nickel foam substrate for pseudocapacitors with enhanced performance. <i>Electrochimica Acta</i> , 2015, 151, 35-41.	2.6	206
16	Enhanced performance of supercapacitors with ultrathin mesoporous NiMoO <sub>4</sub> nanosheets. <i>Electrochimica Acta</i> , 2014, 125, 294-301.	2.6	116
17	High-temperature humidity sensors based on WO <sub>3</sub> -SnO <sub>2</sub> composite hollow nanospheres. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6854-6862.	5.2	84
18	Facile hydrothermal synthesis of hierarchical ultrathin mesoporous NiMoO <sub>4</sub> nanosheets for high performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 115, 358-363.	2.6	110

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19	Room-temperature hydrogen sensor based on grain-boundary controlled Pt decorated In <sub>2</sub> O <sub>3</sub> nanocubes. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 351-359.	4.0	68
20	Improved room-temperature hydrogen sensing performance of directly formed Pd/WO <sub>3</sub> nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 28-34.	4.0	81
21	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
22	Construction of unique NiCo <sub>2</sub> O <sub>4</sub> nanowire@CoMoO <sub>4</sub> nanoplate core/shell arrays on Ni foam for high areal capacitance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4954.	5.2	134
23	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
24	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
25	Architectures of tavorite LiFe(PO <sub>4</sub> ) <sub>0.5</sub> (OH) <sub>0.5</sub> F <sub>0.5</sub> hierarchical microspheres and their lithium storage properties. <i>Nanoscale</i> , 2014, 6, 11041-11045.	2.8	12
26	SnO <sub>2</sub> @TiO <sub>2</sub> Heterojunction Nanostructures for Lithium-ion Batteries and Self-Powered UV Photodetectors with Improved Performances. <i>ChemElectroChem</i> , 2014, 1, 108-115.	1.7	104
27	High-Performance Supercapacitor Electrode Based on the Unique ZnO@Co <sub>3</sub> O <sub>4</sub> Core/Shell Heterostructures on Nickel Foam. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15905-15912.	4.0	212
28	Morphology controlled synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanosheet array nanostructures on nickel foam and their application for pseudocapacitors. <i>Electrochimica Acta</i> , 2014, 142, 118-124.	2.6	88
29	Enhanced Sensitivity and Stability of Room-Temperature NH <sub>3</sub> Sensors Using Core-Shell CeO <sub>2</sub> Nanoparticles@Cross-linked PANI with n Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 14131-14140.	4.0	201
30	Three-Dimensional Co <sub>3</sub> O <sub>4</sub> @NiMoO <sub>4</sub> Core/Shell Nanowire Arrays on Ni Foam for Electrochemical Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5050-5055.	4.0	198
31	Surrounding Sensitive Electronic Properties of Bi <sub>2</sub> Te <sub>3</sub> Nanoplates – Potential Sensing Applications of Topological Insulators. <i>Scientific Reports</i> , 2014, 4, 4639.	1.6	22
32	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
33	Comparison of the Electrochemical Performance of NiMoO <sub>4</sub> Nanorods and Hierarchical Nanospheres for Supercapacitor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12905-12910.	4.0	267
34	Flexible, Planar-Integrated, All-Solid-State Fiber Supercapacitors with an Enhanced Distributed Capacitance Effect. <i>Small</i> , 2013, 9, 1998-2004.	5.2	133
35	Enhanced sensitivity of ammonia sensor using graphene/polyaniline nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 485-493.	4.0	425
36	NiCo <sub>2</sub> O <sub>4</sub> nanowire arrays supported on Ni foam for high-performance flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2468.	5.2	344

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37	Sensing Behavior of Atomically Thin-Layered MoS <sub>2</sub> Transistors. ACS Nano, 2013, 7, 4879-4891.	7.3	1,158
38	Application of computational verb theory to gas recognition. , 2012, , .		1
39	Morphology evolution of urchin-like NiCo <sub>2</sub> O <sub>4</sub> nanostructures and their applications as pseudocapacitors and photoelectrochemical cells. Journal of Materials Chemistry, 2012, 22, 21647.	6.7	310