Yanhe Xiao

List of Publications by Year
in descending order

44 papers	1,121 citations	430874 18 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	1835 citing authors

#	Article	IF	Citations
1	Highly sensitive humidity sensor based on amorphous Al₂O₃nanotubes. Journal of Materials Chemistry, 2011, 21, 1907-1912.	6.7	123
2	Nickel formate induced high-levelin situNi-doping of g-C₃N₄for a tunable band structure and enhanced photocatalytic performance. Journal of Materials Chemistry A, 2019, 7, 22385-22397.	10.3	101
3	Direct growth of nickel terephthalate on Ni foam with large mass-loading for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 19323-19332.	10.3	69
4	General synthesis of rare-earth orthochromites with quasi-hollow nanostructures and their magnetic properties. Journal of Materials Chemistry A, 2013, 1, 11982.	10.3	64
5	Spinel Indium Sulfide Precursor for the Phase-Selective Synthesis of Cuâ€“Inâ€“S Nanocrystals with Zinc-Blende, Wurtzite, and Spinel Structures. Chemistry of Materials, 2013, 25, 2991-2997.	6.7	63
6	Conversion of biomass waste to multi-heteroatom-doped carbon networks with high surface area and hierarchical porosity for advanced supercapacitors. Journal of Materials Science, 2018, 53, 14536-14547.	3.7	44
7	BaAl₂O₄:Eu²⁺, Dy³⁺ Nanotube Synthesis by Heating Conversion of Homogeneous Coprecipitates and Afterglow Characteristics. Journal of Physical Chemistry C, 2011, 115, 1708-1713.	3.1	43
8	Surface state controlled ultrahigh selectivity and sensitivity for UV photodetectors based on individual SnO₂ nanowires. Journal of Materials Chemistry C, 2016, 4, 8399-8406.	5.5	43
9	Disorderâ€induced Raman scattering effects in oneâ€dimensional ZnO nanostructures by incorporation and anisotropic distribution of Dy and Li codopants. Journal of Raman Spectroscopy, 2010, 41, 1221-1226.	2.5	36
10	PMMA interlayer-modulated memory effects by space charge polarization in resistive switching based on CuSCN-nanopyramids/ZnO-nanorods p-n heterojunction. Scientific Reports, 2015, 5, 17859.	3.3	34
11	Power- and energy-dependent photoluminescence of Eu3+ incorporated and segregated ZnO polycrystalline nanobelts synthesized by a facile combustion method followed by heat treatment. Journal of Materials Chemistry, 2010, 20, 7821.	6.7	33
12	Individual Ohmic contacted ZnO/Zn2SnO4 radial heterostructured nanowires as photodetectors with a broad-spectral-response: injection of electrons into/from interface states. Journal of Materials Chemistry C, 2014, 2, 1808.	5.5	33
13	Self-template formation and properties study of Cr₂O₃nanoparticle tubes. Journal of Materials Chemistry, 2012, 22, 1643-1651.	6.7	32
14	SrAlxOy:Eu2+, Dy3+ (x = 4) nanostructures: Structure and morphology transformations and long-lasting phosphorescence properties. CrystEngComm, 2011, 13, 3545.	2.6	31
15	Lightâ€Induced Anomalous Resistive Switches Based on Individual Organicâ€“Inorganic Halide Perovskite Microâ€Nanofibers. Advanced Electronic Materials, 2018, 4, 1800206.	5.1	26
16	A facile in situ reduction route for preparation of spinel CoCr₂O₄polycrystalline nanosheets and their magnetic properties. CrystEngComm, 2014, 16, 277-286.	2.6	21
17	Space charge polarization-induced symmetrical negative resistive switching in individual p-type GeSe₂:Bi superstructure nanobelts for non-volatile memory. Journal of Materials Chemistry C, 2015, 3, 5207-5213.	5.5	21
18	A surface state-controlled, high-performance, self-powered photovoltaic detector based on an individual SnS nanorod with a symmetrical electrode structure. Journal of Materials Chemistry C, 2018, 6, 9071-9080.	5.5	21

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19	Synthesis and magnetic properties of MNb₂O₆(M = Fe, Co, Ni) nanoparticles. RSC Advances, 2014, 4, 52740-52748.	3.6	19
20	Trapâ€Related Nonvolatile Negative Photoconductivity in a Single Ag@Al₂O₃ Hybrid Nanorod for a Photomemory with Lightâ€Writing and Biasâ€Erasing. Advanced Optical Materials, 2019, 7, 1901154.	7.3	18
21	Controllable switching properties in an individual CH3NH3PbI3 micro/nanowire-based transistor for gate voltage and illumination dual-driving non-volatile memory. Journal of Materials Chemistry C, 2019, 7, 4259-4266.	5.5	18
22	SrAl₂O₄:Eu²⁺,Dy³⁺ nanobelts: Synthesis by combustion and properties of long-persistent phosphorescence. Journal of Materials Research, 2011, 26, 2311-2315.	2.6	17
23	Pore regulation of well-developed honeycomb-like carbon materials from Zizania latifolia for supercapacitors. Journal of Energy Storage, 2022, 52, 104910.	8.1	16
24	Ordered Zinc Antimonate Nanoisland Attachment and Morphology Control of ZnO Nanobelts by Sb Doping. Journal of Physical Chemistry C, 2009, 113, 9638-9643.	3.1	15
25	Trapping states in CdS:Eu nanobelts studied by excitation-dependent photoluminescence. Journal of Applied Physics, 2010, 108, .	2.5	15
26	Preparation and magnetic and microwave absorption properties of MnNb₂O₆ ellipsoid-like hierarchical structures. CrystEngComm, 2014, 16, 7949-7955.	2.6	14
27	Enhanced visible light catalysis activity of CdS-sheathed SrAl₂O₄:Eu²⁺,Dy³⁺nanocomposites. Dalton Transactions, 2018, 47, 7941-7948.	3.3	13
28	Bi₁₉S₂₇I₃ nanorods: a new candidate for photothermal therapy in the first and second biological near-infrared windows. Nanoscale, 2021, 13, 5369-5382.	5.6	13
29	An individual sandwich hybrid nanostructure of cobalt disulfide in-situ grown on N doped carbon layer wrapped on multi-walled carbon nanotubes for high-efficiency lithium sulfur batteries. Journal of Colloid and Interface Science, 2022, 610, 560-572.	9.4	13
30	Self-supported electrode based on two-dimensional NiPS3 for supercapacitor application. Journal of Colloid and Interface Science, 2022, 616, 401-412.	9.4	13
31	The ferromagneticâ€“antiferromagnetic properties of Niâ€“Cr₂O₃composite hollow spheres prepared by an in situ reduction method. CrystEngComm, 2014, 16, 1322-1333.	2.6	12
32	Isomorphous Substitution Synthesis and Photoelectric Properties of Spinel AgInSnS₄ Nanosheets. Chemistry of Materials, 2020, 32, 9713-9720.	6.7	12
33	Rewritable non-volatile stress information memory by bulk trap-induced giant piezoresistance effect in individual PbS micro/nanowires. Journal of Materials Chemistry C, 2017, 5, 229-237.	5.5	11
34	Revealing the synergistic mechanism of multiply nanostructured V2O3 hollow nanospheres integrated with doped N, Ni heteroatoms, in-situ grown carbon nanotubes and coated carbon nanolayers for the enhancement of lithium-sulfur batteries. Journal of Colloid and Interface Science, 2022, 612, 760-771.	9.4	11
35	Carbon-encapsulated CdSe quantum dot inorganic hybrid nanobelts for high performance photoelectronic devices based on the efficient separation and transfer of photoinduced holes. Journal of Materials Chemistry C, 2015, 3, 2471-2478.	5.5	10
36	Enhanced Giant Piezoresistance Performance of Sandwiched ZnS/Si/SiO₂ Radial Heterostructure Nanotubes for Nonvolatile Stress Memory with Repeatable Writing and Erasing. ACS Applied Materials & Interfaces, 2016, 8, 34648-34658.	8.0	10

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37	Ultrahigh performance negative thermal-resistance switching based on individual ZnO:K, Cl micro/nanowires for multibit nonvolatile resistance random access memory dual-written/erased repeatedly by temperature or bias. Journal of Materials Chemistry C, 2015, 3, 12220-12229.	5.5	7
38	Gateâ€Free Controlled Multibit Memories Based on Individual ZnO:In Micro/Nanowire Backâ€toâ€Back Diodes. Advanced Electronic Materials, 2016, 2, 1500395.	5.1	7
39	A Hierarchically Porous Hollow Structure of Layered Bi₂TiO₄F₂ for Efficient Photocatalysis. European Journal of Inorganic Chemistry, 2017, 2017, 1892-1899.	2.0	7
40	Ultrahigh stress response and storage properties in a single CdS nanobelt-based flexible device for an erasable nonvolatile stress sensing and memory effect. Journal of Materials Chemistry C, 2019, 7, 7654-7663.	5.5	5
41	Wurtzite CuNi₂InS₄ Nanocrystals: A Quaternary Chalcogenide Magnetic Semiconductor. Inorganic Chemistry, 2019, 58, 15283-15290.	4.0	4
42	Novel Strategy toward Chromium-Based Thiospinel Multifunctional Magnetic Materials from Amorphous Chromites. Crystal Growth and Design, 2022, 22, 4277-4287.	3.0	2
43	Sulfur-source-dependent phase-selective preparation of Cu₃NiInSnS₆ nanocrystals and their optical and magnetic properties. Dalton Transactions, 0, , .	3.3	1
44	Giant Piezoresistive Effect of CdS@C Hybrid Nanobelts for Volatile Real-Time Sensor and Erasable Nonvolatile Memory to Stress. ACS Applied Materials & Interfaces, 2021, 13, 22785-22795.	8.0	0