

Yafei Zhang

List of Publications by Year in descending order

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110
papers

3,924
citations

126907

33
h-index

128289

60
g-index

111
all docs

111
docs citations

111
times ranked

6192
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced graphene oxide-polyaniline hybrid: Preparation, characterization and its applications for ammonia gas sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 22488.	6.7	315
2	Design of Hetero-Nanostructures on MoS ₂ Nanosheets To Boost NO ₂ Room-Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22640-22649.	8.0	199
3	Synthesis of Polymer-Mesoporous Silica Nanocomposites. <i>Materials</i> , 2010, 3, 4066-4079.	2.9	154
4	Single-walled carbon nanotube/cobalt phthalocyanine derivative hybrid material: preparation, characterization and its gas sensing properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 3779.	6.7	154
5	Fast one-step synthesis of N-doped carbon dots by pyrolyzing ethanolamine. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7477-7481.	5.5	150
6	Efficient long lifetime room temperature phosphorescence of carbon dots in a potash alum matrix. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2798-2801.	5.5	145
7	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. <i>Nano-Micro Letters</i> , 2012, 4, 1-9.	27.0	133
8	An ultrasensitive NO ₂ gas sensor based on a hierarchical Cu ₂ O/CuO mesocrystal nanoflower. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17120-17131.	10.3	122
9	Three-dimensional skeleton networks of graphene wrapped polyaniline nanofibers: an excellent structure for high-performance flexible solid-state supercapacitors. <i>Scientific Reports</i> , 2016, 6, 19777.	3.3	115
10	Simple approach to β -SiC nanowires: Synthesis, optical, and electrical properties. <i>Applied Physics Letters</i> , 2006, 89, 223124.	3.3	103
11	Ammonia gas sensors based on chemically reduced graphene oxide sheets self-assembled on Au electrodes. <i>Nanoscale Research Letters</i> , 2014, 9, 251.	5.7	98
12	A new strategy to prepare N-doped holey graphene for high-volumetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9739-9743.	10.3	96
13	Preparation of high aspect ratio nickel oxide nanowires and their gas sensing devices with fast response and high sensitivity. <i>Journal of Materials Chemistry</i> , 2012, 22, 8327.	6.7	94
14	Enhanced NO ₂ sensing performance of reduced graphene oxide by in situ anchoring carbon dots. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6862-6871.	5.5	93
15	Morphology Control and Photocatalysis Enhancement by in Situ Hybridization of Cuprous Oxide with Nitrogen-Doped Carbon Quantum Dots. <i>Langmuir</i> , 2016, 32, 9418-9427.	3.5	86
16	Two-dimensional NiO nanosheets with enhanced room temperature NO ₂ sensing performance via Al doping. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19043-19049.	2.8	86
17	Nanofoaming to Boost the Electrochemical Performance of Ni@Ni(OH) ₂ Nanowires for Ultrahigh Volumetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27868-27876.	8.0	82
18	Tunable band gap Cu ₂ ZnSnS ₄ Se ₄ (1-x) nanocrystals: experimental and first-principles calculations. <i>CrystEngComm</i> , 2011, 13, 2222.	2.6	75

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19	Zinc-doped nickel oxide dendritic crystals with fast response and self-recovery for ammonia detection at room temperature. <i>Journal of Materials Chemistry</i> , 2012, 22, 20038.	6.7	75
20	Hydrothermal synthesis of hexagonal CuSe nanoflakes with excellent sunlight-driven photocatalytic activity. <i>CrystEngComm</i> , 2014, 16, 9185-9190.	2.6	72
21	Direct Inkjet Printing of Aqueous Inks to Flexible All-Solid-State Graphene Hybrid Micro-Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46044-46053.	8.0	70
22	Graphene Oxide-Modified Polyacrylonitrile Nanofibrous Membranes for Efficient Air Filtration. <i>ACS Applied Nano Materials</i> , 2019, 2, 3916-3924.	5.0	64
23	Highly Enhanced Visible-Light-Driven Photoelectrochemical Performance of ZnO-Modified In ₂ S ₃ Nanosheet Arrays by Atomic Layer Deposition. <i>Nano-Micro Letters</i> , 2018, 10, 45.	27.0	62
24	Cobalt Doping To Boost the Electrochemical Properties of Ni@Ni ₃ S ₂ Nanowire Films for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2017, 10, 4056-4065.	6.8	61
25	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. <i>Nano-Micro Letters</i> , 2011, 3, 215-222.	27.0	59
26	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. <i>Nano-Micro Letters</i> , 2011, 3, 62-71.	27.0	55
27	A Novel Artificial Neuron-Like Gas Sensor Constructed from CuS Quantum Dots/Bi ₂ S ₃ Nanosheets. <i>Nano-Micro Letters</i> , 2022, 14, 8.	27.0	53
28	Steamed water engineering mechanically robust graphene films for high-performance electrochemical capacitive energy storage. <i>Nano Energy</i> , 2016, 26, 668-676.	16.0	51
29	Facile synthesis and photoelectric properties of carbon dots with upconversion fluorescence using arc-synthesized carbon by-products. <i>RSC Advances</i> , 2014, 4, 4839.	3.6	46
30	Inkjet-Printed Ultrathin MoS ₂ -Based Electrodes for Flexible In-Plane Microsupercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39444-39454.	8.0	45
31	Ultrafast Lateral Photo-Dember Effect in Graphene Induced by Nonequilibrium Hot Carrier Dynamics. <i>Nano Letters</i> , 2015, 15, 4234-4239.	9.1	41
32	Novel Sn _x Se _{1-x} nanocrystals with tunable band gap: experimental and first-principles calculations. <i>Journal of Materials Chemistry</i> , 2011, 21, 12605.	6.7	40
33	Hierarchically CuInS ₂ Nanosheet-Constructed Nanowire Arrays for Photoelectrochemical Water Splitting. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600494.	3.7	35
34	Highly Sensitive Room-Temperature NO ₂ Gas Sensors Based on Three-Dimensional Multiwalled Carbon Nanotube Networks on SiO ₂ Nanospheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13915-13923.	6.7	34
35	Advances in Conceptual Electronic Nanodevices based on 0D and 1D Nanomaterials. <i>Nano-Micro Letters</i> , 2014, 6, 1-19.	27.0	32
36	Semiconducting single-walled carbon nanotube/graphene van der Waals junctions for highly sensitive all-carbon hybrid humidity sensors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3386-3394.	5.5	30

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37	Highly Sensitive Broadband Single-Walled Carbon Nanotube Photodetectors Enhanced by Separated Graphene Nanosheets. <i>Advanced Optical Materials</i> , 2018, 6, 1800791.	7.3	29
38	Multichannel Room-Temperature Gas Sensors Based on Magnetic-Field-Aligned 3D Fe ₃ O ₄ @SiO ₂ /Reduced Graphene Oxide Spheres. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37418-37426.	8.0	29
39	Facile synthesis of amine-functionalized graphene quantum dots with highly pH-sensitive photoluminescence. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 704-709.	2.1	28
40	Metal oxide nanoprism-arrays assembled in N-doped carbon foamy nanoplates that have efficient polysulfide-retention for ultralong-cycle-life lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11260-11269.	10.3	28
41	Binder-Free, Flexible, and Self-Standing Non-Woven Fabric Anodes Based on Graphene/Si Hybrid Fibers for High-Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27270-27277.	8.0	27
42	Synthesis of straight multi-walled carbon nanotubes by arc discharge in air and their field emission properties. <i>Journal of Materials Science</i> , 2012, 47, 6535-6541.	3.7	26
43	Self-Powered Broadband Photodetector Based on Single-Walled Carbon Nanotube/GaAs Heterojunctions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15532-15539.	6.7	26
44	Controlled one-step synthesis of spiky polycrystalline nickel nanowires with enhanced magnetic properties. <i>CrystEngComm</i> , 2014, 16, 8442.	2.6	25
45	Controlled growth of nickel nanocrystal arrays and their field electron emission performance enhancement via removing adsorbed gas molecules. <i>CrystEngComm</i> , 2013, 15, 1296-1306.	2.6	20
46	One-pot preparation of thin nanoporous copper foils with enhanced light absorption and SERS properties. <i>CrystEngComm</i> , 2015, 17, 1296-1304.	2.6	20
47	High Potential Columnar Nanocrystalline AlN Films Deposited by RF Reactive Magnetron Sputtering. <i>Nano-Micro Letters</i> , 2012, 4, 40-44.	27.0	18
48	Development of Inorganic Solar Cells by Nano-technology. <i>Nano-Micro Letters</i> , 2012, 4, 124-134.	27.0	18
49	High-work-function metal/carbon nanotube/low-work-function metal hybrid junction photovoltaic device. <i>NPG Asia Materials</i> , 2015, 7, e220-e220.	7.9	18
50	Silicon nanotips formed by self-assembled Au nanoparticle mask. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1821-1828.	1.9	17
51	Interlayer-expanded MoS ₂ vertically anchored on graphene via Ca-O-S bonds for superior sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160280.	5.5	17
52	Band gap tunable Sn-doped PbSe nanocrystals: solvothermal synthesis and first-principles calculations. <i>CrystEngComm</i> , 2012, 14, 7408.	2.6	16
53	Spin polarization of phase delay time in a magnetic-electric barrier structure. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 240, 169-175.	1.5	15
54	Synthesis of ternary Pb _x Sn _{1-x} S nanocrystals with tunable band gap. <i>CrystEngComm</i> , 2011, 13, 6628.	2.6	14

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55	Electrolytic approach towards the controllable synthesis of symmetric, hierarchical, and highly ordered nickel dendritic crystals. <i>CrystEngComm</i> , 2012, 14, 1629-1636.	2.6	14
56	Facile synthesis of single-crystalline mesoporous NiO nanosheets as high-performance anode materials for Li-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 13853-13860.	2.2	14
57	Template-free Synthesis of One-dimensional Cobalt Nanostructures by Hydrazine Reduction Route. <i>Nanoscale Research Letters</i> , 2011, 6, 58.	5.7	13
58	Docetaxel-loaded SiO ₂ @Au@GO core-shell nanoparticles for chemo-photothermal therapy of cancer cells. <i>RSC Advances</i> , 2016, 6, 48379-48386.	3.6	13
59	Poly(Glycidyl Methacrylates)-grafted Zinc Oxide Nanowire by Surface-initiated Atom Transfer Radical Polymerization. <i>Nano-Micro Letters</i> , 2010, 2, 285-289.	27.0	12
60	C60 Fullerenes Suppress Reactive Oxygen Species Toxicity Damage in Boar Sperm. <i>Nano-Micro Letters</i> , 2019, 11, 104.	27.0	12
61	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. , 2012, 4, 1.		12
62	Spin-filter devices based on resonant tunneling antisymmetrical magnetic/semiconductor hybrid structures. <i>Applied Physics Letters</i> , 2004, 84, 1955-1957.	3.3	11
63	Emulsion polymerization of ethylene from mesoporous silica nanoparticles with vinyl functionalized monolayers. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1393-1402.	2.3	11
64	Carbon nanotube intramolecular p-i-n junction diodes with symmetric and asymmetric contacts. <i>Scientific Reports</i> , 2016, 6, 22203.	3.3	11
65	Hierarchical heterostructures based on prickly Ni nanowires/Cu ₂ O nanoparticles with enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2016, 45, 7258-7266.	3.3	11
66	A p-i-n junction diode based on locally doped carbon nanotube network. <i>Scientific Reports</i> , 2016, 6, 23319.	3.3	10
67	Conspiracy vs science: A large-scale analysis of online discussion cascades. <i>World Wide Web</i> , 2021, 24, 585-606.	4.0	10
68	Graphene oxide induces autophagy and apoptosis via the ROS-dependent AMPK/mTOR/ULK-1 pathway in colorectal cancer cells. <i>Nanomedicine</i> , 2022, 17, 591-605.	3.3	10
69	Enhancing the photosensitivity of C60 nanorod visible photodetectors by coupling with Cu ₂ O nanocubes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1715-1721.	5.5	9
70	One-Step Cutting of Multi-Walled Carbon Nanotubes Using Nanoscissors. <i>Nano-Micro Letters</i> , 2011, 3, 86-90.	27.0	8
71	Cu ₂ O nanowires as anode materials for Li-ion rechargeable batteries. <i>Science China Technological Sciences</i> , 2014, 57, 1073-1076.	4.0	8
72	Laser-Induced MoO _x /Sulfur-Doped Graphene Hybrid Frameworks as Efficient Antibacterial Agents. <i>Langmuir</i> , 2021, 37, 1596-1604.	3.5	8

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73	A MEMS-based ionization gas sensor using carbon nanotubes and dielectric barrier. , 2008, , .		7
74	A Study of All-solid-state Planar Micro-supercapacitors Using Printable MoS ₂ Inks. Chemistry Letters, 2021, 50, 452-455.	1.3	7
75	Polythiophene microspheres synthesized by transition metal mediated oxidative dispersion polymerization. Journal of Polymer Science Part A, 2010, 48, 5265-5269.	2.3	6
76	Decrease of contact resistance at the interface of carbon nanotube/electrode by nanowelding. Electronic Materials Letters, 2017, 13, 168-173.	2.2	6
77	Multichannel carbon nanotube field-effect transistors with compound channel layer. Applied Physics Letters, 2009, 95, 192110.	3.3	5
78	Controlled assembly of FePt nanoparticles monolayer on solid substrates. Journal of Colloid and Interface Science, 2014, 417, 100-108.	9.4	5
79	Structural analysis of polycrystalline silicon thin films produced by two different ICPCVD approaches. Materials Science in Semiconductor Processing, 2018, 75, 51-57.	4.0	5
80	In-plane Defect Engineering Enabling Ultra-stable Graphene Paper-based Hosts for Lithium Metal Anodes. ChemElectroChem, 2021, 8, 3273-3281.	3.4	5
81	Novel Nanotrees of Crystalline Nickel formed via Electrolytic Approach. Nano-Micro Letters, 2011, 3, 264-269.	27.0	4
82	Unique Characteristics of Vertical Carbon Nanotube Field-effect Transistors on Silicon. Nano-Micro Letters, 2014, 6, 287-292.	27.0	4
83	ZnO nanoplate clusters with numerous enlarged catalytic interface exposures via a hydrothermal method for improved and recyclable photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 1576-1583.	2.2	4
84	Potential features of a 3D compatible polyethyleneimine-graphene oxide interface in WPCs via nano-self-assembly modification. Polymer Composites, 2019, 40, 3233-3241.	4.6	4
85	Magnesium composition effect on UV-sensing performance of Mg _x Zn _{1-x} O-based solidly mounted bulk acoustic resonator. Journal of Materials Science: Materials in Electronics, 2020, 31, 5511-5520.	2.2	4
86	Lithium titanate nanoplates embedded with graphene quantum dots as electrode materials for high-rate lithium-ion batteries. Nanotechnology, 2021, 32, 505403.	2.6	4
87	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. , 2011, 3, 62.		4
88	Advances in Conceptual Electronic Nanodevices based on 0D and 1D Nanomaterials. Nano-Micro Letters, 2013, 6, 1.	27.0	4
89	The spatial dissemination of COVID-19 and associated socio-economic consequences. Journal of the Royal Society Interface, 2022, 19, 20210662.	3.4	4
90	Vapor-phase chemical synthesis of magnesium oxide nanowires by DC arc discharge. Journal of Nanoparticle Research, 2011, 13, 3229-3233.	1.9	3

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91	The Strength of Structural Diversity in Online Social Networks. Research, 2021, 2021, 9831621.	5.7	3
92	Viral vs. broadcast: Characterizing the virality and growth of cascades. Europhysics Letters, 2020, 131, 28002.	2.0	3
93	Photolithography enhancement by incorporating photoluminescent nanoscale cesium iodide molecular dots into the photoresists. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	2
94	Group III dopant segregation and semiconductor-to-metal transition in ZnO nanowires: a first principles study. RSC Advances, 2013, 3, 19793.	3.6	2
95	Enhanced electron field emission characteristics of single-walled carbon nanotube films by ultrasonic bonding. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 63, 165-168.	2.7	2
96	Flower-Like VO ₂ (B)@C Structure: High Rate Capacity and Stability as Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2019, 19, 4052-4057.	0.9	2
97	Predicting information exposure and continuous consumption: self-level interest similarity, peer-level interest similarity and global popularity. Online Information Review, 2022, 46, 337-355.	3.2	2
98	High Potential Columnar Nanocrystalline AlN Films Deposited by RF Reactive Magnetron Sputtering. , 2012, 4, 40.		2
99	High-Performance Li-ion Batteries and Supercapacitors Base on 1-D Nanomaterials in Prospect. Nano-Micro Letters, 2011, 3, 62.	27.0	2
100	CNTs/Cu composite thin films fabricated by electrophoresis and electroplating techniques. , 2008, , .		1
101	Fabrication of SWNT device by self-assembly technology. , 2008, , .		1
102	Microfabricated breath sensor based on carbon nanotubes for respiration monitoring. , 2009, , .		1
103	Advancement in treating some features of CIGS thin film solar cells during manufacturing. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 643-646.	0.8	1
104	Effective Purification of SWNTs Based on Combined Method. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 78-82.	2.1	1
105	Unique Characteristics of Vertical Carbon Nanotube Field-effect Transistors on Silicon. Nano-Micro Letters, 2014, 6, 287.	27.0	1
106	Silicon Nanostructures Formed by Self-organizing Au Nanoparticle Film. , 2006, , .		0
107	FABRICATION OF DISPERSED ALIGNED CARBON NANOTUBE ARRAY BETWEEN METAL ELECTRODES. International Journal of Nanoscience, 2006, 05, 389-394.	0.7	0
108	Carbon nitride nanotubes synthesized by high-frequency induction heating quickly and their field-emission properties. , 2008, , .		0

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109	Direct evidence for self-trapping of excitons by indium nanowires at In/Si(111) surface. Applied Physics Letters, 2013, 103, 193105.	3.3	0
110	The structural evolution in the growth process of FePt embedded in MgO matrix. Journal of Materials Science, 2020, 55, 12305-12313.	3.7	0