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	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
2	A Novel Artificial Neuron-Like Gas Sensor Constructed from CuS Quantum Dots/Bi2S3 Nanosheets. Nano-Micro Letters, 2022, 14, 8.	27.0	53
3	The spatial dissemination of COVID-19 and associated socio-economic consequences. Journal of the Royal Society Interface, 2022, 19, 20210662.	3.4	4
4	Graphene oxide induces autophagy and apoptosis via the ROS-dependent AMPK/mTOR/ULK-1 pathway in colorectal cancer cells. Nanomedicine, 2022, 17, 591-605.	3.3	10
5	Laser-Induced MoO_x/Sulfur-Doped Graphene Hybrid Frameworks as Efficient Antibacterial Agents. Langmuir, 2021, 37, 1596-1604.	3.5	8
6	Conspiracy vs science: A large-scale analysis of online discussion cascades. World Wide Web, 2021, 24, 585-606.	4.0	10
7	A Study of All-solid-state Planar Micro-supercapacitors Using Printable MoS₂ Inks. Chemistry Letters, 2021, 50, 452-455.	1.3	7
8	The Strength of Structural Diversity in Online Social Networks. Research, 2021, 2021, 9831621.	5.7	3
9	Binder-Free, Flexible, and Self-Standing Non-Woven Fabric Anodes Based on Graphene/Si Hybrid Fibers for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 27270-27277.	8.0	27
10	Inâ€plane Defect Engineering Enabling Ultraâ€stable Graphene Paperâ€based Hosts for Lithium Metal Anodes. ChemElectroChem, 2021, 8, 3273-3281.	3.4	5
11	Lithium titanate nanoplates embedded with graphene quantum dots as electrode materials for high-rate lithium-ion batteries. Nanotechnology, 2021, 32, 505403.	2.6	4
12	Interlayer-expanded MoS2 vertically anchored on graphene via Câ”€Oâ”€S bonds for superior sodium-ion batteries. Journal of Alloys and Compounds, 2021, 877, 160280.	5.5	17
13	Self-Powered Broadband Photodetector Based on Single-Walled Carbon Nanotube/GaAs Heterojunctions. ACS Sustainable Chemistry and Engineering, 2020, 8, 15532-15539.	6.7	26
14	Inkjet-Printed Ultrathin MoS₂-Based Electrodes for Flexible In-Plane Microsupercapacitors. ACS Applied Materials & Interfaces, 2020, 12, 39444-39454.	8.0	45
15	Multichannel Room-Temperature Gas Sensors Based on Magnetic-Field-Aligned 3D Fe₃O₄@SiO₂@Reduced Graphene Oxide Spheres. ACS Applied Materials & Interfaces, 2020, 12, 37418-37426.	8.0	29
16	Highly Sensitive Room-Temperature NO₂ Gas Sensors Based on Three-Dimensional Multiwalled Carbon Nanotube Networks on SiO₂ Nanospheres. ACS Sustainable Chemistry and Engineering, 2020, 8, 13915-13923.	6.7	34
17	The structural evolution in the growth process of FePt embedded in MgO matrix. Journal of Materials Science, 2020, 55, 12305-12313.	3.7	0
18	Semiconducting single-walled carbon nanotube/graphene van der Waals junctions for highly sensitive all-carbon hybrid humidity sensors. Journal of Materials Chemistry C, 2020, 8, 3386-3394.	5.5	30

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19	Magnesium composition effect on UV-sensing performance of MgxZn1â^'xO-based solidly mounted bulk acoustic resonator. Journal of Materials Science: Materials in Electronics, 2020, 31, 5511-5520.	2.2	4
20	Viral vs. broadcast: Characterizing the virality and growth of cascades. Europhysics Letters, 2020, 131, 28002.	2.0	3
21	Direct Inkjet Printing of Aqueous Inks to Flexible All-Solid-State Graphene Hybrid Micro-Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 46044-46053.	8.0	70
22	Potential features of a 3D compatible polyethyleneimineâ€graphene oxide interface in WPCs via nanoâ€selfâ€assemblyâ€modification. Polymer Composites, 2019, 40, 3233-3241.	4.6	4
23	Graphene Oxide-Modified Polyacrylonitrile Nanofibrous Membranes for Efficient Air Filtration. ACS Applied Nano Materials, 2019, 2, 3916-3924.	5.0	64
24	Flower-Like VO2(B)@C Structure: High Rate Capacity and Stability as Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2019, 19, 4052-4057.	0.9	2
25	C60 Fullerenes Suppress Reactive Oxygen Species Toxicity Damage in Boar Sperm. Nano-Micro Letters, 2019, 11, 104.	27.0	12
26	Highly Enhanced Visible-Light-Driven Photoelectrochemical Performance of ZnO-Modified In2S3 Nanosheet Arrays by Atomic Layer Deposition. Nano-Micro Letters, 2018, 10, 45.	27.0	62
27	Enhancing the photosensitivity of C60 nanorod visible photodetectors by coupling with Cu2O nanocubes. Journal of Materials Chemistry C, 2018, 6, 1715-1721.	5.5	9
28	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
29	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
30	Highly Sensitive Broadband Singleâ€Walled Carbon Nanotube Photodetectors Enhanced by Separated Graphene Nanosheets. Advanced Optical Materials, 2018, 6, 1800791.	7.3	29
31	Metal oxide nanoprism-arrays assembled in N-doped carbon foamy nanoplates that have efficient polysulfide-retention for ultralong-cycle-life lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 11260-11269.	10.3	28
32	An ultrasensitive NO₂ gas sensor based on a hierarchical Cu₂O/CuO mesocrystal nanoflower. Journal of Materials Chemistry A, 2018, 6, 17120-17131.	10.3	122
33	Design of Hetero-Nanostructures on MoS₂ Nanosheets To Boost NO₂ Room-Temperature Sensing. ACS Applied Materials & Interfaces, 2018, 10, 22640-22649.	8.0	199
34	Enhanced NO₂ sensing performance of reduced graphene oxide by in situ anchoring carbon dots. Journal of Materials Chemistry C, 2017, 5, 6862-6871.	5.5	93
35	Facile synthesis of single-crystalline mesoporous NiO nanosheets as high-performance anode materials for Li-ion batteries. Journal of Materials Science: Materials in Electronics, 2017, 28, 13853-13860.	2.2	14
36	Decrease of contact resistance at the interface of carbon nanotube/electrode by nanowelding. Electronic Materials Letters, 2017, 13, 168-173.	2.2	6

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37	Cobalt Doping To Boost the Electrochemical Properties of Ni@Ni₃S₂ Nanowire Films for Highâ€Performance Supercapacitors. ChemSusChem, 2017, 10, 4056-4065.	6.8	61
38	Two-dimensional NiO nanosheets with enhanced room temperature NO₂sensing performance via Al doping. Physical Chemistry Chemical Physics, 2017, 19, 19043-19049.	2.8	86
39	Facile synthesis of amine-functionalized graphene quantum dots with highly pH-sensitive photoluminescence. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 704-709.	2.1	28
40	Carbon nanotube intramolecular p-i-n junction diodes with symmetric and asymmetric contacts. Scientific Reports, 2016, 6, 22203.	3.3	11
41	A p-i-n junction diode based on locally doped carbon nanotube network. Scientific Reports, 2016, 6, 23319.	3.3	10
42	A new strategy to prepare N-doped holey graphene for high-volumetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9739-9743.	10.3	96
43	Docetaxel-loaded SiO₂@Au@GO coreâ€“shell nanoparticles for chemo-photothermal therapy of cancer cells. RSC Advances, 2016, 6, 48379-48386.	3.6	13
44	Morphology Control and Photocatalysis Enhancement by in Situ Hybridization of Cuprous Oxide with Nitrogen-Doped Carbon Quantum Dots. Langmuir, 2016, 32, 9418-9427.	3.5	86
45	Nanofoaming to Boost the Electrochemical Performance of Ni@Ni(OH)₂ Nanowires for Ultrahigh Volumetric Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 27868-27876.	8.0	82
46	Hierarchically CuInS₂ Nanosheetâ€Constructed Nanowire Arrays for Photoelectrochemical Water Splitting. Advanced Materials Interfaces, 2016, 3, 1600494.	3.7	35
47	Steamed water engineering mechanically robust graphene films for high-performance electrochemical capacitive energy storage. Nano Energy, 2016, 26, 668-676.	16.0	51
48	Three-dimensional skeleton networks of graphene wrapped polyaniline nanofibers: an excellent structure for high-performance flexible solid-state supercapacitors. Scientific Reports, 2016, 6, 19777.	3.3	115
49	Hierarchical heterostructures based on prickly Ni nanowires/Cu₂O nanoparticles with enhanced photocatalytic activity. Dalton Transactions, 2016, 45, 7258-7266.	3.3	11
50	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
51	Ultrafast Lateral Photo-Dember Effect in Graphene Induced by Nonequilibrium Hot Carrier Dynamics. Nano Letters, 2015, 15, 4234-4239.	9.1	41
52	Efficient long lifetime room temperature phosphorescence of carbon dots in a potash alum matrix. Journal of Materials Chemistry C, 2015, 3, 2798-2801.	5.5	145
53	High-work-function metal/carbon nanotube/low-work-function metal hybrid junction photovoltaic device. NPG Asia Materials, 2015, 7, e220-e220.	7.9	18
54	One-pot preparation of thin nanoporous copper foils with enhanced light absorption and SERS properties. CrystEngComm, 2015, 17, 1296-1304.	2.6	20

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55	Effective Purification of SWNTs Based on Combined Method. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 78-82.	2.1	1
56	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
57	Hydrothermal synthesis of hexagonal CuSe nanoflakes with excellent sunlight-driven photocatalytic activity. CrystEngComm, 2014, 16, 9185-9190.	2.6	72
58	Facile synthesis and photoelectric properties of carbon dots with upconversion fluorescence using arc-synthesized carbon by-products. RSC Advances, 2014, 4, 4839.	3.6	46
59	Fast one-step synthesis of N-doped carbon dots by pyrolyzing ethanolamine. Journal of Materials Chemistry C, 2014, 2, 7477-7481.	5.5	150
60	Advances in Conceptual Electronic Nanodevices based on 0D and 1D Nanomaterials. Nano-Micro Letters, 2014, 6, 1-19.	27.0	32
61	Unique Characteristics of Vertical Carbon Nanotube Field-effect Transistors on Silicon. Nano-Micro Letters, 2014, 6, 287-292.	27.0	4
62	Cu2O nanowires as anode materials for Li-ion rechargeable batteries. Science China Technological Sciences, 2014, 57, 1073-1076.	4.0	8
63	Ammonia gas sensors based on chemically reduced graphene oxide sheets self-assembled on Au electrodes. Nanoscale Research Letters, 2014, 9, 251.	5.7	98
64	Controlled one-step synthesis of spiky polycrystalline nickel nanowires with enhanced magnetic properties. CrystEngComm, 2014, 16, 8442.	2.6	25
65	Controlled assembly of FePt nanoparticles monolayer on solid substrates. Journal of Colloid and Interface Science, 2014, 417, 100-108.	9.4	5
66	Unique Characteristics of Vertical Carbon Nanotube Field-effect Transistors on Silicon. Nano-Micro Letters, 2014, 6, 287.	27.0	1
67	Photolithography enhancement by incorporating photoluminescent nanoscale cesium iodide molecular dots into the photoresists. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	2
68	Group III dopant segregation and semiconductor-to-metal transition in ZnO nanowires: a first principles study. RSC Advances, 2013, 3, 19793.	3.6	2
69	Controlled growth of nickel nanocrystal arrays and their field electron emission performance enhancement via removing adsorbed gas molecules. CrystEngComm, 2013, 15, 1296-1306.	2.6	20
70	Direct evidence for self-trapping of excitons by indium nanowires at In/Si(111) surface. Applied Physics Letters, 2013, 103, 193105.	3.3	0
71	Advances in Conceptual Electronic Nanodevices based on 0D and 1D Nanomaterials. Nano-Micro Letters, 2013, 6, 1.	27.0	4
72	Electrolytic approach towards the controllable synthesis of symmetric, hierarchical, and highly ordered nickel dendritic crystals. CrystEngComm, 2012, 14, 1629-1636.	2.6	14

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73	Band gap tunable Sn-doped PbSe nanocrystals: solvothermal synthesis and first-principles calculations. CrystEngComm, 2012, 14, 7408.	2.6	16
74	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. Nano-Micro Letters, 2012, 4, 1-9.	27.0	133
75	High Potential Columnar Nanocrystalline AlN Films Deposited by RF Reactive Magnetron Sputtering. Nano-Micro Letters, 2012, 4, 40-44.	27.0	18
76	Development of Inorganic Solar Cells by Nano-technology. Nano-Micro Letters, 2012, 4, 124-134.	27.0	18
77	Preparation of high aspect ratio nickel oxide nanowires and their gas sensing devices with fast response and high sensitivity. Journal of Materials Chemistry, 2012, 22, 8327.	6.7	94
78	Reduced graphene oxideâ€“polyaniline hybrid: Preparation, characterization and its applications for ammonia gas sensing. Journal of Materials Chemistry, 2012, 22, 22488.	6.7	315
79	Zinc-doped nickel oxide dendritic crystals with fast response and self-recovery for ammonia detection at room temperature. Journal of Materials Chemistry, 2012, 22, 20038.	6.7	75
80	Synthesis of straight multi-walled carbon nanotubes by arc discharge in air and their field emission properties. Journal of Materials Science, 2012, 47, 6535-6541.	3.7	26
81	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. , 2012, 4, 1.		12
82	High Potential Columnar Nanocrystalline AlN Films Deposited by RF Reactive Magnetron Sputtering. , 2012, 4, 40.		2
83	Template-free Synthesis of One-dimensional Cobalt Nanostructures by Hydrazine Reduction Route. Nanoscale Research Letters, 2011, 6, 58.	5.7	13
84	Synthesis of ternary PbxSn1â^'xS nanocrystals with tunable band gap. CrystEngComm, 2011, 13, 6628.	2.6	14
85	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. Nano-Micro Letters, 2011, 3, 62-71.	27.0	55
86	One-Step Cutting of Multi-Walled Carbon Nanotubes Using Nanoscissors. Nano-Micro Letters, 2011, 3, 86-90.	27.0	8
87	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. Nano-Micro Letters, 2011, 3, 215-222.	27.0	59
88	Novel Nanotrees of Crystalline Nickel formed via Electrolytic Approach. Nano-Micro Letters, 2011, 3, 264-269.	27.0	4
89	Tunable band gap Cu2ZnSnS4xSe4(1â^'x) nanocrystals: experimental and first-principles calculations. CrystEngComm, 2011, 13, 2222.	2.6	75
90	Novel SnSxSe1â^'x nanocrystals with tunable band gap: experimental and first-principles calculations. Journal of Materials Chemistry, 2011, 21, 12605.	6.7	40

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91	Single-walled carbon nanotube/cobalt phthalocyanine derivative hybrid material: preparation, characterization and its gas sensing properties. Journal of Materials Chemistry, 2011, 21, 3779.	6.7	154
92	Vapor-phase chemical synthesis of magnesium oxide nanowires by DC arc discharge. Journal of Nanoparticle Research, 2011, 13, 3229-3233.	1.9	3
93	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. , 2011, 3, 62.		4
94	High-Performance Li-ion Batteries and Supercapacitors Base on 1-D Nanomaterials in Prospect. Nano-Micro Letters, 2011, 3, 62.	27.0	2
95	Silicon nanotips formed by self-assembled Au nanoparticle mask. Journal of Nanoparticle Research, 2010, 12, 1821-1828.	1.9	17
96	Polythiophene microspheres synthesized by transition metal mediated oxidative dispersion polymerization. Journal of Polymer Science Part A, 2010, 48, 5265-5269.	2.3	6
97	Poly(Glycidyl Methacrylates)-grafted Zinc Oxide Nanowire by Surface-initiated Atom Transfer Radical Polymerization. Nano-Micro Letters, 2010, 2, 285-289.	27.0	12
98	Synthesis of Polymerâ€"Mesoporous Silica Nanocomposites. Materials, 2010, 3, 4066-4079.	2.9	154
99	Microfabricated breath sensor based on carbon nanotubes for respiration monitoring. , 2009, , .		1
100	Multichannel carbon nanotube field-effect transistors with compound channel layer. Applied Physics Letters, 2009, 95, 192110.	3.3	5
101	Emulsion polymerization of ethylene from mesoporous silica nanoparticles with vinyl functionalized monolayers. Journal of Polymer Science Part A, 2009, 47, 1393-1402.	2.3	11
102	A MEMS-based ionization gas sensor using carbon nanotubes and dielectric barrier. , 2008, , .		7
103	Carbon nitride nanotubes synthesized by high-frequency induction heating quickly and their field-emission properties. , 2008, , .		0
104	CNTs/Cu composite thin films fabricated by electrophoresis and electroplating techniques. , 2008, , .		1
105	Fabrication of SWNT device by self-assembly technology. , 2008, , .		1
106	Simple approach to Î²-SiC nanowires: Synthesis, optical, and electrical properties. Applied Physics Letters, 2006, 89, 223124.	3.3	103
107	Silicon Nanostructures Formed by Self-organizing Au Nanoparticle Film. , 2006, , .		0
108	FABRICATION OF DISPERSED ALIGNED CARBON NANOTUBE ARRAY BETWEEN METAL ELECTRODES. International Journal of Nanoscience, 2006, 05, 389-394.	0.7	0

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109	Spin-filter devices based on resonant tunneling antisymmetrical magnetic/semiconductor hybrid structures. Applied Physics Letters, 2004, 84, 1955-1957.	3.3	11
110	Spin polarization of phase delay time in a magneticâ€“electric barrier structure. Physica Status Solidi (B): Basic Research, 2003, 240, 169-175.	1.5	15