

Yong Ding

List of Publications by Year in descending order

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225
papers

33,431
citations

4120

87
h-index

3638

180
g-index

232
all docs

232
docs citations

232
times ranked

34707
citing authors

#	ARTICLE	IF	CITATIONS
1	Shell-isolated nanoparticle-enhanced Raman spectroscopy. <i>Nature</i> , 2010, 464, 392-395.	13.7	3,025
2	Synthesis of Tetrahedral Platinum Nanocrystals with High-Index Facets and High Electro-Oxidation Activity. <i>Science</i> , 2007, 316, 732-735.	6.0	2,838
3	Single-Crystal Nanorings Formed by Epitaxial Self-Coiling of Polar Nanobelts. <i>Science</i> , 2004, 303, 1348-1351.	6.0	1,383
4	Low-Cost High-Performance Solid-State Asymmetric Supercapacitors Based on MnO ₂ Nanowires and Fe ₂ O ₃ Nanotubes. <i>Nano Letters</i> , 2014, 14, 731-736.	4.5	1,035
5	Nickel-Cobalt Hydroxide Nanosheets Coated on NiCo ₂ O ₄ Nanowires Grown on Carbon Fiber Paper for High-Performance Pseudocapacitors. <i>Nano Letters</i> , 2013, 13, 3135-3139.	4.5	992
6	Conversion of Zinc Oxide Nanobelts into Superlattice-Structured Nanohelices. <i>Science</i> , 2005, 309, 1700-1704.	6.0	835
7	Hydrogenated ZnO Core-Shell Nanocables for Flexible Supercapacitors and Self-Powered Systems. <i>ACS Nano</i> , 2013, 7, 2617-2626.	7.3	781
8	Multi-quantum-well nanowire heterostructures for wavelength-controlled lasers. <i>Nature Materials</i> , 2008, 7, 701-706.	13.3	679
9	A General Approach to Binary and Ternary Hybrid Nanocrystals. <i>Nano Letters</i> , 2006, 6, 875-881.	4.5	593
10	Converting Ceria Polyhedral Nanoparticles into Single-Crystal Nanospheres. <i>Science</i> , 2006, 312, 1504-1508.	6.0	570
11	Semiconducting and Piezoelectric Oxide Nanostructures Induced by Polar Surfaces. <i>Advanced Functional Materials</i> , 2004, 14, 943-956.	7.8	537
12	Controlled Growth of Large-Area, Uniform, Vertically Aligned Arrays of γ -Fe ₂ O ₃ Nanobelts and Nanowires. <i>Journal of Physical Chemistry B</i> , 2005, 109, 215-220.	1.2	506
13	Hierarchical Network Architectures of Carbon Fiber Paper Supported Cobalt Oxide Nanonet for High-Capacity Pseudocapacitors. <i>Nano Letters</i> , 2012, 12, 321-325.	4.5	500
14	Single-Crystal Hexagonal Disks and Rings of ZnO: Low-Temperature, Large-Scale Synthesis and Growth Mechanism. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5238-5242.	7.2	455
15	Lead-Free NaNbO ₃ Nanowires for a High Output Piezoelectric Nanogenerator. <i>ACS Nano</i> , 2011, 5, 10041-10046.	7.3	427
16	Ultrasensitive and highly selective gas sensors using three-dimensional tungsten oxide nanowire networks. <i>Applied Physics Letters</i> , 2006, 88, 203101.	1.5	399
17	Surface analysis using shell-isolated nanoparticle-enhanced Raman spectroscopy. <i>Nature Protocols</i> , 2013, 8, 52-65.	5.5	395
18	Crystallographic Orientation-Aligned ZnO Nanorods Grown by a Tin Catalyst. <i>Nano Letters</i> , 2003, 3, 1315-1320.	4.5	373

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19	A tailored double perovskite nanofiber catalyst enables ultrafast oxygen evolution. <i>Nature Communications</i> , 2017, 8, 14586.	5.8	327
20	Three-Dimensional Tungsten Oxide Nanowire Networks. <i>Advanced Materials</i> , 2005, 17, 2107-2110.	11.1	325
21	Size-Dependent Chemical and Magnetic Ordering in L10-FePt Nanoparticles. <i>Advanced Materials</i> , 2006, 18, 2984-2988.	11.1	307
22	Large-Scale Synthesis of Six-Nanometer-Wide ZnO Nanobelts. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8773-8777.	1.2	295
23	Direct Heteroepitaxy of Vertical InAs Nanowires on Si Substrates for Broad Band Photovoltaics and Photodetection. <i>Nano Letters</i> , 2009, 9, 2926-2934.	4.5	284
24	GaN Nanowire Arrays for High-Output Nanogenerators. <i>Journal of the American Chemical Society</i> , 2010, 132, 4766-4771.	6.6	284
25	A New Catalytically Active Colloidal Platinum Nanocatalyst: The Multiarmed Nanostar Single Crystal. <i>Journal of the American Chemical Society</i> , 2008, 130, 4590-4591.	6.6	269
26	Size effects on elasticity, yielding, and fracture of silver nanowires: In situ experiments. <i>Physical Review B</i> , 2012, 85, .	1.1	266
27	Facile preparation of nitrogen-doped graphene as a metal-free catalyst for oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3381.	1.3	261
28	Core/Shell Au/CuPt Nanoparticles and Their Dual Electrocatalysis for Both Reduction and Oxidation Reactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 5745-5749.	6.6	255
29	Piezoelectric nanogenerator using CdS nanowires. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	248
30	Piezo-phototronic Effect Enhanced UV/Visible Photodetector Based on Fully Wide Band Gap Type-II ZnO/ZnS Core/Shell Nanowire Array. <i>ACS Nano</i> , 2015, 9, 6419-6427.	7.3	232
31	Bismuth Telluride Hexagonal Nanoplatelets and Their Two-Step Epitaxial Growth. <i>Journal of the American Chemical Society</i> , 2005, 127, 10112-10116.	6.6	230
32	A robust fuel cell operated on nearly dry methane at 500 Å°C enabled by synergistic thermal catalysis and electrocatalysis. <i>Nature Energy</i> , 2018, 3, 1042-1050.	19.8	230
33	Atomic Structure of Au ⁺ Pd Bimetallic Alloyed Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 12480-12486.	6.6	229
34	Self-sustainable protonic ceramic electrochemical cells using a triple conducting electrode for hydrogen and power production. <i>Nature Communications</i> , 2020, 11, 1907.	5.8	227
35	Ultrafine FePt Nanoparticles Prepared by the Chemical Reduction Method. <i>Nano Letters</i> , 2003, 3, 1647-1649.	4.5	226
36	External Strain Induced Insulating Phase Transition in VO ₂ Nanobeam and Its Application as Flexible Strain Sensor. <i>Advanced Materials</i> , 2010, 22, 5134-5139.	11.1	223

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37	Single-Crystal CdSe Nanosaws. <i>Journal of the American Chemical Society</i> , 2004, 126, 708-709.	6.6	221
38	A Highly Efficient Multi-phase Catalyst Dramatically Enhances the Rate of Oxygen Reduction. <i>Joule</i> , 2018, 2, 938-949.	11.7	221
39	Metal-Semiconductor Zn-ZnO Core-Shell Nanobelts and Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 570-574.	1.2	219
40	Catalyst-Nanostructure Interfacial Lattice Mismatch in Determining the Shape of VLS Grown Nanowires and Nanobelts: A Case of Sn/ZnO. <i>Journal of the American Chemical Society</i> , 2004, 126, 2066-2072.	6.6	208
41	Alternating the Output of a CdS Nanowire Nanogenerator by a White-Light-Stimulated Optoelectronic Effect. <i>Advanced Materials</i> , 2008, 20, 3127-3130.	11.1	207
42	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2017, 10, 964-971.	15.6	204
43	A highly active, CO ₂ -tolerant electrode for the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2018, 11, 2458-2466.	15.6	202
44	3D Heteroatom-Doped Carbon Nanomaterials as Multifunctional Metal-Free Catalysts for Integrated Energy Devices. <i>Advanced Materials</i> , 2019, 31, e1805598.	11.1	194
45	Selective recovery of precious metals through photocatalysis. <i>Nature Sustainability</i> , 2021, 4, 618-626.	11.5	188
46	Atomically dispersed Fe-N-C decorated with Pt-alloy core-shell nanoparticles for improved activity and durability towards oxygen reduction. <i>Energy and Environmental Science</i> , 2020, 13, 3032-3040.	15.6	185
47	Piezo-phototronic Effect Enhanced Visible and Ultraviolet Photodetection Using a ZnO-CdS Core-Shell Micro/nanowire. <i>ACS Nano</i> , 2012, 6, 9229-9236.	7.3	184
48	Hybrid Composite Ni(OH) ₂ @NiCo ₂ O ₄ Grown on Carbon Fiber Paper for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11159-11162.	4.0	181
49	Rationally designed graphene-nanotube 3D architectures with a seamless nodal junction for efficient energy conversion and storage. <i>Science Advances</i> , 2015, 1, e1400198.	4.7	176
50	Enhanced Cu ₂ S/CdS Coaxial Nanowire Solar Cells by Piezo-Phototronic Effect. <i>Nano Letters</i> , 2012, 12, 3302-3307.	4.5	174
51	Tailoring Au-core Pd-shell Pt-cluster nanoparticles for enhanced electrocatalytic activity. <i>Chemical Science</i> , 2011, 2, 531-539.	3.7	172
52	Facet-Selective Epitaxial Growth of Heterogeneous Nanostructures of Semiconductor and Metal: ZnO Nanorods on Ag Nanocrystals. <i>Journal of the American Chemical Society</i> , 2009, 131, 12036-12037.	6.6	170
53	Structure Analysis of Nanowires and Nanobelts by Transmission Electron Microscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12280-12291.	1.2	165
54	Phase and shape controlled VO ₂ nanostructures by antimony doping. <i>Energy and Environmental Science</i> , 2012, 5, 8708.	15.6	159

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55	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. <i>Energy Storage Materials</i> , 2017, 7, 32-39.	9.5	157
56	Probing Surface Band Bending of Surface-Engineered Metal Oxide Nanowires. <i>ACS Nano</i> , 2012, 6, 9366-9372.	7.3	149
57	Deformation-Free Single-Crystal Nanohelices of Polar Nanowires. <i>Nano Letters</i> , 2004, 4, 1309-1312.	4.5	146
58	Rational Synthesis of Heterostructured Nanoparticles with Morphology Control. <i>Journal of the American Chemical Society</i> , 2010, 132, 6524-6529.	6.6	145
59	Self-Illuminating ⁶⁴ Cu-Doped CdSe/ZnS Nanocrystals for in Vivo Tumor Imaging. <i>Journal of the American Chemical Society</i> , 2014, 136, 1706-1709.	6.6	142
60	Metal/Semiconductor Core/Shell Nanodisks and Nanotubes. <i>Advanced Functional Materials</i> , 2006, 16, 53-62.	7.8	135
61	Piezotronic Effect on the Output Voltage of P3HT/ZnO Micro/Nanowire Heterojunction Solar Cells. <i>Nano Letters</i> , 2011, 11, 4812-4817.	4.5	135
62	Zinc-blende ZnO and its role in nucleating wurtzite tetrapods and twinned nanowires. <i>Applied Physics Letters</i> , 2007, 90, 153510.	1.5	126
63	Systematic study on structural and electronic properties of diamine/triamine functionalized graphene networks for supercapacitor application. <i>Nano Energy</i> , 2017, 31, 183-193.	8.2	124
64	PLD-Assisted VLS Growth of Aligned Ferrite Nanorods, Nanowires, and Nanobelts Synthesis, and Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21672-21679.	1.2	123
65	Solution-Derived ZnO Homojunction Nanowire Films on Wearable Substrates for Energy Conversion and Self-Powered Gesture Recognition. <i>Nano Letters</i> , 2014, 14, 6897-6905.	4.5	123
66	Worm-like amorphous MnO ₂ nanowires grown on textiles for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 595-599.	5.2	120
67	Controllable interior structure of ZnCo ₂ O ₄ microspheres for high-performance lithium-ion batteries. <i>Nano Energy</i> , 2015, 11, 64-70.	8.2	120
68	Crystal Orientation-Ordered ZnS Nanowire Bundles. <i>Journal of the American Chemical Society</i> , 2004, 126, 14372-14373.	6.6	119
69	Luminescent and Raman Active Silver Nanoparticles with Polycrystalline Structure. <i>Journal of the American Chemical Society</i> , 2008, 130, 10472-10473.	6.6	119
70	Enabling Tailorable Optical Properties and Markedly Enhanced Stability of Perovskite Quantum Dots by Permanently Ligating with Polymer Hairs. <i>Advanced Materials</i> , 2019, 31, e1901602.	11.1	119
71	Piezotronic Effect in Solution-Grown p-Type ZnO Nanowires and Films. <i>Nano Letters</i> , 2013, 13, 2647-2653.	4.5	118
72	Piezotronic Effect in Flexible Thin-Film Based Devices. <i>Advanced Materials</i> , 2013, 25, 3371-3379.	11.1	115

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73	Formation of PbSe Nanocrystals: A Growth toward Nanocubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19219-19222.	1.2	112
74	Sealing ZnO nanorods for deeply rechargeable high-energy aqueous battery anodes. <i>Nano Energy</i> , 2018, 53, 666-674.	8.2	112
75	An Active and Robust Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. <i>ACS Energy Letters</i> , 0, , 1511-1520.	8.8	109
76	Phase controlled synthesis of ZnS nanobelts: zinc blende vs wurtzite. <i>Chemical Physics Letters</i> , 2004, 398, 32-36.	1.2	108
77	Photoconductive enhancement of single ZnO nanowire through localized Schottky effects. <i>Optics Express</i> , 2010, 18, 14836.	1.7	105
78	Nanowire Structural Evolution from Fe ₃ O ₄ to μ -Fe ₂ O ₃ . <i>Advanced Functional Materials</i> , 2007, 17, 1172-1178.	7.8	100
79	Piezotronic Effect Modulated Heterojunction Electron Gas in AlGa _N /AlN/GaN Heterostructure Microwire. <i>Advanced Materials</i> , 2016, 28, 7234-7242.	11.1	100
80	Mismatch Strain Induced Formation of ZnO/ZnS Heterostructured Rings. <i>Advanced Materials</i> , 2007, 19, 2319-2323.	11.1	99
81	Structures of planar defects in ZnO nanobelts and nanowires. <i>Micron</i> , 2009, 40, 335-342.	1.1	99
82	Patterned Growth of Horizontal ZnO Nanowire Arrays. <i>Journal of the American Chemical Society</i> , 2009, 131, 6670-6671.	6.6	97
83	Site-Selective Carving and Co-Deposition: Transformation of Ag Nanocubes into Concave Nanocrystals Encased by Au-Ag Alloy Frames. <i>ACS Nano</i> , 2018, 12, 298-307.	7.3	96
84	Hierarchical Structured Nanohelices of ZnS. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5150-5154.	7.2	95
85	Effect of the Lattice Crystallinity on the Electron-Phonon Relaxation Rates in Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10751-10757.	1.5	94
86	Tuning the Shape and Catalytic Activity of Fe Nanocrystals from Rhombic Dodecahedra and Tetragonal Bipyramids to Cubes by Electrochemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 10860-10862.	6.6	94
87	A durable, high-performance hollow-nanofiber cathode for intermediate-temperature fuel cells. <i>Nano Energy</i> , 2016, 26, 90-99.	8.2	93
88	Photonic Crystals Fabricated Using Patterned Nanorod Arrays. <i>Advanced Materials</i> , 2005, 17, 2103-2106.	11.1	92
89	Vertically Aligned CdSe Nanowire Arrays for Energy Harvesting and Piezotronic Devices. <i>ACS Nano</i> , 2012, 6, 6478-6482.	7.3	91
90	Activating low-temperature diesel oxidation by single-atom Pt on TiO ₂ nanowire array. <i>Nature Communications</i> , 2020, 11, 1062.	5.8	90

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91	Microwave Makes Carbon Nanotubes Less Defective. ACS Nano, 2010, 4, 1716-1722.	7.3	86
92	Assemblies of Aligned Magnetotactic Bacteria and Extracted Magnetosomes: What Is the Main Factor Responsible for the Magnetic Anisotropy?. ACS Nano, 2009, 3, 1539-1547.	7.3	85
93	Seedless synthesis of patterned ZnO nanowire arrays on metal thin films (Au, Ag, Cu, Sn) and their application for flexible electromechanical sensing. Journal of Materials Chemistry, 2012, 22, 9469.	6.7	84
94	GaN Nanobelt-Based Strain-Gated Piezotronic Logic Devices and Computation. ACS Nano, 2013, 7, 6403-6409.	7.3	82
95	High-Performance Li-CO ₂ Batteries from Free-Standing, Binder-Free, Bifunctional Three-Dimensional Carbon Catalysts. ACS Energy Letters, 2020, 5, 916-921.	8.8	81
96	Switching of metal-oxygen hybridization for selective CO ₂ electrohydrogenation under mild temperature and pressure. Nature Catalysis, 2021, 4, 274-283.	16.1	77
97	Enhancing the macroscopic polarization of CdS for piezo-photocatalytic water splitting. Nano Energy, 2021, 90, 106635.	8.2	77
98	An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes. Nano Energy, 2018, 47, 474-480.	8.2	76
99	Synthesis, characterization, and photocatalytic properties of ZnO/(La,Sr)CoO ₃ composite nanorod arrays. Journal of Materials Chemistry, 2009, 19, 970.	6.7	75
100	Synthesis of vertically aligned ultra-long ZnO nanowires on heterogeneous substrates with catalyst at the root. Nanotechnology, 2012, 23, 055604.	1.3	74
101	Interface and defect structures of ZnO core-shell heteronanobelts. Journal of Applied Physics, 2004, 95, 306-310.	1.1	72
102	Electronic Transport in Superlattice-Structured ZnO Nanohelix. Nano Letters, 2009, 9, 137-143.	4.5	72
103	3D Self-Structured Steam Electrode Enabled Efficient and Durable Hydrogen Production in a Proton-Conducting Solid Oxide Electrolysis Cell at Temperatures Lower Than 600 °C. Advanced Science, 2018, 5, 1800360.	5.6	72
104	Electrospun Porous Perovskite La _{0.6} Sr _{0.4} Co _{1-x} Fe _x Nanofibers for Efficient Oxygen Evolution Reaction. Advanced Materials Interfaces, 2017, 4, 1700146.	11.9	371
105	Piezo-phototronic effect on photocatalysis, solar cells, photodetectors and light-emitting diodes. Chemical Society Reviews, 2021, 50, 13646-13691.	18.7	69
106	Tuning the Thermal Stability of Molecular Precursors for the Nonhydrolytic Synthesis of Magnetic MnFe ₂ O ₄ Spinel Nanocrystals. Chemistry of Materials, 2007, 19, 4633-4638.	3.2	67
107	Formation of Orientation-Ordered Superlattices of Magnetite Magnetic Nanocrystals from Shape-Segregated Self-Assemblies. Journal of Physical Chemistry B, 2006, 110, 25547-25550.	1.2	66
108	Single-Crystal Mesoporous ZnO Thin Films Composed of Nanowalls. Journal of Physical Chemistry C, 2009, 113, 1791-1794.	1.5	65

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109	Perovskite Nanoparticle-Sensitized Ga ₂ O ₃ Nanorod Arrays for CO Detection at High Temperature. ACS Applied Materials & Interfaces, 2016, 8, 8880-8887.	4.0	65
110	Surface restructuring of a perovskite-type air electrode for reversible protonic ceramic electrochemical cells. Nature Communications, 2022, 13, 2207.	5.8	65
111	Low temperature synthesis and characterization of MgO/ZnO composite nanowire arrays. Nanotechnology, 2009, 20, 125608.	1.3	64
112	An efficient and durable anode for ammonia protonic ceramic fuel cells. Energy and Environmental Science, 2022, 15, 287-295.	15.6	64
113	Phosphorus Doped Zn _{1-x} Mg _x O Nanowire Arrays. Nano Letters, 2009, 9, 3877-3882.	4.5	63
114	Promotion of oxygen reduction reaction on a double perovskite electrode by a water-induced surface modification. Energy and Environmental Science, 2021, 14, 1506-1516.	15.6	62
115	Piezo-Phototronic UV/Visible Photosensing with Optical-Fiber Nanowire Hybridized Structures. Advanced Materials, 2015, 27, 1553-1560.	11.1	60
116	Simulating Synthesis of Ceria Nanosphere Self-Assembly into Nanorods and Framework Architectures. Journal of the American Chemical Society, 2007, 129, 7924-7935.	6.6	58
117	Piezo-Phototronic Effect on Electroluminescence Properties of p-Type GaN Thin Films. Nano Letters, 2012, 12, 3851-3856.	4.5	58
118	Nanobelt and nanosaw structures of II-VI semiconductors. International Journal of Nanotechnology, 2004, 1, 431.	0.1	57
119	Large-Scale Synthesis of Rings of Bundled Single-Walled Carbon Nanotubes by Floating Chemical Vapor Deposition. Advanced Materials, 2006, 18, 1817-1821.	11.1	57
120	Sublimation-Induced Shape Evolution of Silver Cubes. Small, 2009, 5, 2812-2815.	5.2	57
121	Largely Improved Near-Infrared Silicon-Photosensing by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 7118-7125.	7.3	57
122	Highly Active and Durable Air Electrodes for Reversible Protonic Ceramic Electrochemical Cells Enabled by an Efficient Bifunctional Catalyst. Advanced Energy Materials, 2022, 12, .	10.2	57
123	Enhancing Oxygen Reduction Activity and Cr Tolerance of Solid Oxide Fuel Cell Cathodes by a Multiphase Catalyst Coating. Advanced Functional Materials, 2021, 31, 2100034.	7.8	56
124	Modifying the anti-wetting property of butterfly wings and water strider legs by atomic layer deposition coating: surface materials versus geometry. Nanotechnology, 2008, 19, 355708.	1.3	55
125	Nanogenerator based on zinc blende CdTe micro/nanowires. Nano Energy, 2013, 2, 387-393.	8.2	55
126	Self-Catalysis and Phase Transformation in the Formation of CdSe Nanosaws. Advanced Materials, 2004, 16, 1740-1743.	11.1	54

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127	Enhanced performances of Si/CdS heterojunction near-infrared photodetector by the piezo-phototronic effect. <i>Nano Energy</i> , 2018, 44, 311-318.	8.2	54
128	Bulk FePt-based nanocomposite magnets with enhanced exchange coupling. <i>Journal of Applied Physics</i> , 2007, 102, 023908.	1.1	52
129	Synthesis and Characterization of Gold Nanoparticles Coated with Ultrathin and Chemically Inert Dielectric Shells for SHINERS Applications. <i>Applied Spectroscopy</i> , 2011, 65, 620-626.	1.2	52
130	Controlled synthesis and magnetic properties of hard magnetic Co _x C (x=2, 3) nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1495-1500.	1.0	52
131	Heteroepitaxial Patterned Growth of Vertically Aligned and Periodically Distributed ZnO Nanowires on GaN Using Laser Interference Ablation. <i>Advanced Functional Materials</i> , 2010, 20, 3484-3489.	7.8	51
132	Growth of high quality, epitaxial InSb nanowires. <i>Journal of Crystal Growth</i> , 2007, 304, 399-401.	0.7	50
133	Temperature Dependence of the Piezophototronic Effect in CdS Nanowires. <i>Advanced Functional Materials</i> , 2015, 25, 5277-5284.	7.8	50
134	A niobium oxide with a shear structure and planar defects for high-power lithium ion batteries. <i>Energy and Environmental Science</i> , 2022, 15, 254-264.	15.6	50
135	Investigations on the formation mechanism of hydroxyapatite synthesized by the solvothermal method. <i>Nanotechnology</i> , 2006, 17, 4405-4412.	1.3	49
136	Fabricating and Controlling Silicon Zigzag Nanowires by Diffusion-Controlled Metal-Assisted Chemical Etching Method. <i>Nano Letters</i> , 2017, 17, 4304-4310.	4.5	48
137	Piezo-phototronic Effect Enhanced Responsivity of Photon Sensor Based on Composition-Tunable Ternary CdS _x Se _{1-x} Nanowires. <i>ACS Photonics</i> , 2017, 4, 2495-2503.	3.2	48
138	Growth of Large-Area Aligned Molybdenum Nanowires by High Temperature Chemical Vapor Deposition: A Synthesis, Growth Mechanism, and Device Application. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10296-10302.	1.2	47
139	Structural colors from <i>Morpho peleides</i> butterfly wing scales. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	47
140	Piezo-phototronic Boolean Logic and Computation Using Photon and Strain Dual-Gated Nanowire Transistors. <i>Advanced Materials</i> , 2015, 27, 940-947.	11.1	46
141	Profile imaging of reconstructed polar and non-polar surfaces of ZnO. <i>Surface Science</i> , 2007, 601, 425-433.	0.8	45
142	Crystalline ZnO thin film by hydrothermal growth. <i>Chemical Communications</i> , 2011, 47, 7776.	2.2	45
143	Enhanced electrocatalytic activity on gold nanocrystals enclosed by high-index facets for oxygen reduction. <i>Nano Energy</i> , 2014, 7, 179-188.	8.2	43
144	Piezotronic Effect in Strain-Gated Transistor of <i>a</i> -Axis GaN Nanobelt. <i>ACS Nano</i> , 2015, 9, 9822-9829.	7.3	43

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145	Synthesis of 1D Sb ₂ S ₃ nanostructures and its application in visible-light-driven photodegradation for MO. <i>Journal of Alloys and Compounds</i> , 2015, 625, 90-94.	2.8	43
146	Seedless Synthesis and Thermal Decomposition of Single Crystalline Zinc Hydroxystannate Cubes. <i>Crystal Growth and Design</i> , 2009, 9, 4456-4460.	1.4	42
147	Misfit dislocations in multimetallic core-shelled nanoparticles. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	42
148	Optoelectronic Properties of Solution Grown ZnO n-p or p-n Core-Shell Nanowire Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4287-4291.	4.0	42
149	Facets and surface relaxation of tetrahedral platinum nanocrystals. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	41
150	Pt-Ag cubic nanocages with wall thickness less than 2 nm and their enhanced catalytic activity toward oxygen reduction. <i>Nanoscale</i> , 2017, 9, 15107-15114.	2.8	39
151	Growth and Transfer of Monolithic Horizontal ZnO Nanowire Superstructures onto Flexible Substrates. <i>Advanced Functional Materials</i> , 2010, 20, 1493-1497.	7.8	38
152	Catalyst-Free Heteroepitaxial MOCVD Growth of InAs Nanowires on Si Substrates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1696-1705.	1.5	38
153	A Single-Atom Fe Catalyst with Ultrahigh Utilization of Active Sites for Efficient Oxygen Reduction. <i>Small</i> , 2022, 18, .	5.2	38
154	A Way To Control the Gold Nanocrystals Size: Using Seeds with Different Sizes and Subjecting Them to Mild Annealing. <i>ACS Nano</i> , 2009, 3, 3622-3628.	7.3	37
155	A highly efficient and durable air electrode for intermediate-temperature reversible solid oxide cells. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120631.	10.8	37
156	Formation of Fe ₃ Pt phase in FePt-based nanocomposite magnets. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 712-716.	1.3	36
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