

# Deren Yang

## List of Publications by Year in descending order

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887  
papers

26,038  
citations

8181

76  
h-index

19190

118  
g-index

901  
all docs

901  
docs citations

901  
times ranked

25760  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Temperature Synthesis of Flowerlike ZnO Nanostructures by Cetyltrimethylammonium Bromide-Assisted Hydrothermal Process. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3955-3958.	2.6	484
2	Synthesis of Pd~Pt Bimetallic Nanocrystals with a Concave Structure through a Bromide-Induced Galvanic Replacement Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 6078-6089.	13.7	405
3	Intermetallic Nanocrystals: Syntheses and Catalytic Applications. <i>Advanced Materials</i> , 2017, 29, 1605997.	21.0	375
4	Controllable Growth of ZnO Microcrystals by a Capping-Molecule-Assisted Hydrothermal Process. <i>Crystal Growth and Design</i> , 2005, 5, 547-550.	3.0	320
5	Luminescent Metal-Organic Framework Films As Highly Sensitive and Fast-Response Oxygen Sensors. <i>Journal of the American Chemical Society</i> , 2014, 136, 5527-5530.	13.7	319
6	Enhanced Electronic Properties of SnO <sub>2</sub> via Electron Transfer from Graphene Quantum Dots for Efficient Perovskite Solar Cells. <i>ACS Nano</i> , 2017, 11, 9176-9182.	14.6	302
7	Selective etching of GaN polar surface in potassium hydroxide solution studied by x-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2001, 90, 4219-4223.	2.5	301
8	Synthesis of flower-like ZnO nanostructures by an organic-free hydrothermal process. <i>Nanotechnology</i> , 2004, 15, 622-626.	2.6	290
9	Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. <i>ACS Nano</i> , 2017, 11, 9854-9862.	14.6	285
10	Facile Synthesis of Pd-Pt Alloy Nanocages and Their Enhanced Performance for Preferential Oxidation of CO in Excess Hydrogen. <i>ACS Nano</i> , 2011, 5, 8212-8222.	14.6	236
11	Large-Scale Synthesis of SnO <sub>2</sub> Nanotube Arrays as High-Performance Anode Materials of Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11302-11305.	3.1	231
12	Demonstration of optical microfiber knot resonators. <i>Applied Physics Letters</i> , 2006, 88, 223501.	3.3	227
13	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	211
14	Graphene Coupled with Silicon Quantum Dots for High-Performance Bulk-Silicon-Based Schottky Junction Photodetectors. <i>Advanced Materials</i> , 2016, 28, 4912-4919.	21.0	206
15	A simple hydrothermal route for synthesizing SnO <sub>2</sub> quantum dots. <i>Nanotechnology</i> , 2006, 17, 2386-2389.	2.6	202
16	Epitaxial Growth of Twinned Au-Pt Core-Shell Star-Shaped Decahedra as Highly Durable Electrocatalysts. <i>Nano Letters</i> , 2015, 15, 7808-7815.	9.1	195
17	Controlling the Morphology of Rhodium Nanocrystals by Manipulating the Growth Kinetics with a Syringe Pump. <i>Nano Letters</i> , 2011, 11, 898-903.	9.1	190
18	Porous ZnCo <sub>2</sub> O <sub>4</sub> Nanowires Synthesis via Sacrificial Templates: High-Performance Anode Materials of Li-Ion Batteries. <i>Inorganic Chemistry</i> , 2011, 50, 3320-3324.	4.0	178

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19	Multiwalled Carbon Nanotubes Anchored with SnS <sub>2</sub> Nanosheets as High-Performance Anode Materials of Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4067-4074.	8.0	159
20	Enhancement of ZnO light emission via coupling with localized surface plasmon of Ag island film. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	156
21	A selective NH <sub>3</sub> gas sensor based on Fe <sub>2</sub> O <sub>3</sub> @ZnO nanocomposites at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 910-915.	7.8	155
22	Broadband optoelectronic synaptic devices based on silicon nanocrystals for neuromorphic computing. <i>Nano Energy</i> , 2018, 52, 422-430.	16.0	150
23	Seed-assisted cast quasi-single crystalline silicon for photovoltaic application: Towards high efficiency and low cost silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 95-101.	6.2	146
24	Optoelectronic Synaptic Devices for Neuromorphic Computing. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000099.	6.1	143
25	Engineering crystalline structures of two-dimensional MoS <sub>2</sub> sheets for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7727-7733.	10.3	142
26	Kinetically controlled synthesis of Pt@Cu alloy concave nanocubes with high-index facets for methanol electro-oxidation. <i>Chemical Communications</i> , 2014, 50, 560-562.	4.1	140
27	CNTs@SnO <sub>2</sub> @C Coaxial Nanocables with Highly Reversible Lithium Storage. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22535-22538.	3.1	139
28	Controllable growth of ZnO nanostructures by citric acid assisted hydrothermal process. <i>Materials Letters</i> , 2005, 59, 1696-1700.	2.6	138
29	Ligand-free Self-Assembly of Ceria Nanocrystals into Nanorods by Oriented Attachment at Low Temperature. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12677-12680.	3.1	137
30	Comparative Study on the Localized Surface Plasmon Resonance of Boron- and Phosphorus-Doped Silicon Nanocrystals. <i>ACS Nano</i> , 2015, 9, 378-386.	14.6	133
31	Carbon-coated SnO <sub>2</sub> nanotubes: template-engaged synthesis and their application in lithium-ion batteries. <i>Nanoscale</i> , 2011, 3, 746-750.	5.6	131
32	Electrically pumped ZnO film ultraviolet random lasers on silicon substrate. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	126
33	Photoluminescence of Si-rich silicon nitride: Defect-related states and silicon nanoclusters. <i>Applied Physics Letters</i> , 2007, 90, 131903.	3.3	124
34	CuO nanodendrites synthesized by a novel hydrothermal route. <i>Nanotechnology</i> , 2004, 15, 1428-1432.	2.6	122
35	Optically Stimulated Synaptic Devices Based on the Hybrid Structure of Silicon Nanomembrane and Perovskite. <i>Nano Letters</i> , 2020, 20, 3378-3387.	9.1	121
36	In situ Study of Oxidative Etching of Palladium Nanocrystals by Liquid Cell Electron Microscopy. <i>Nano Letters</i> , 2014, 14, 3761-3765.	9.1	120

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37	Enhancing the Efficiency of Multicrystalline Silicon Solar Cells by the Inkjet Printing of Silicon-Quantum-Dot Ink. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21240-21243.	3.1	119
38	Ultraviolet electroluminescence from ZnO/p-Si heterojunctions. <i>Journal of Applied Physics</i> , 2007, 101, 053103.	2.5	117
39	Spin-coating silicon-quantum-dot ink to improve solar cell efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2941-2945.	6.2	117
40	Nanocrystals Composed of Alternating Shells of Pd and Pt Can Be Obtained by Sequentially Adding Different Precursors. <i>Journal of the American Chemical Society</i> , 2011, 133, 10422-10425.	13.7	115
41	Thin Czochralski silicon solar cells based on diamond wire sawing technology. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 337-342.	6.2	115
42	Coupling PtNi Ultrathin Nanowires with MXenes for Boosting Electrocatalytic Hydrogen Evolution in Both Acidic and Alkaline Solutions. <i>Small</i> , 2019, 15, e1805474.	10.0	113
43	Arrays of ZnO nanowires fabricated by a simple chemical solution route. <i>Nanotechnology</i> , 2003, 14, 423-426.	2.6	111
44	Highly loaded CoO/graphene nanocomposites as lithium-ion anodes with superior reversible capacity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2337.	10.3	111
45	Synaptic silicon-nanocrystal phototransistors for neuromorphic computing. <i>Nano Energy</i> , 2019, 63, 103859.	16.0	107
46	From cobalt nitrate carbonate hydroxide hydrate nanowires to porous Co <sub>3</sub> O <sub>4</sub> nanorods for high performance lithium-ion battery electrodes. <i>Nanotechnology</i> , 2008, 19, 035711.	2.6	105
47	Selective Synthesis of Fe <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> Nanowires Via a Single Precursor: A General Method for Metal Oxide Nanowires. <i>Nanoscale Research Letters</i> , 2010, 5, 1295-1300.	5.7	105
48	Hydrothermal Synthesis of Zn <sub>2</sub> SnO <sub>4</sub> Nanorods in the Diameter Regime of Sub-5 nm and Their Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7631-7634.	2.6	104
49	Self-Templating Synthesis of SnO <sub>2</sub> @Carbon Hybrid Hollow Spheres for Superior Reversible Lithium Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1946-1952.	8.0	104
50	Tuning Surface Structure and Strain in Pd@Pt Core@Shell Nanocrystals for Enhanced Electrocatalytic Oxygen Reduction. <i>Small</i> , 2017, 13, 1603423.	10.0	104
51	Enhancement and patterning of ultraviolet emission in ZnO with an electron beam. <i>Applied Physics Letters</i> , 2006, 88, 134103.	3.3	103
52	Gas sensing behavior of polyvinylpyrrolidone-modified ZnO nanoparticles for trimethylamine. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 324-328.	7.8	103
53	Epitaxial Growth of Multimetallic Pd@PtM (M = Ni, Rh, Ru) Core@Shell Nanoplates Realized by in Situ-Produced CO from Interfacial Catalytic Reactions. <i>Nano Letters</i> , 2016, 16, 7999-8004.	9.1	103
54	Designing superior solid electrolyte interfaces on silicon anodes for high-performance lithium-ion batteries. <i>Nanoscale</i> , 2019, 11, 19086-19104.	5.6	103

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55	Single crystalline CdS nanorods fabricated by a novel hydrothermal method. <i>Chemical Physics Letters</i> , 2003, 377, 654-657.	2.6	102
56	Carbon Nanocapsules as Nanoreactors for Controllable Synthesis of Encapsulated Iron and Iron Oxides: Magnetic Properties and Reversible Lithium Storage. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3612-3620.	3.1	101
57	Cu@Ge core-shell nanowire arrays as three-dimensional electrodes for high-rate capability lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 1511-1515.	6.7	101
58	Efficient and highly light stable planar perovskite solar cells with graphene quantum dots doped PCBM electron transport layer. <i>Nano Energy</i> , 2017, 40, 345-351.	16.0	101
59	Shape-Control Fabrication and Characterization of the Airplane-like FeO(OH) and Fe <sub>2</sub> O <sub>3</sub> Nanostructures. <i>Crystal Growth and Design</i> , 2006, 6, 351-353.	3.0	100
60	Selenium Nanotubes Synthesized by a Novel Solution Phase Approach. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1179-1182.	2.6	98
61	Facile Synthesis of Fivefold Twinned, Starfish-like Rhodium Nanocrystals by Eliminating Oxidative Etching with a Chloride-free Precursor. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5296-5300.	13.8	97
62	Synthesis of NiO nanowires by a sol-gel process. <i>Materials Letters</i> , 2005, 59, 1967-1970.	2.6	95
63	Long Bi <sub>2</sub> S <sub>3</sub> nanowires prepared by a simple hydrothermal method. <i>Nanotechnology</i> , 2003, 14, 974-977.	2.6	94
64	Zero-power optoelectronic synaptic devices. <i>Nano Energy</i> , 2020, 73, 104790.	16.0	94
65	Interface engineering for efficient and stable chemical-doping-free graphene-on-silicon solar cells by introducing a graphene oxide interlayer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16877-16883.	10.3	93
66	Grown-in defects in nitrogen-doped Czochralski silicon. <i>Journal of Applied Physics</i> , 2002, 92, 188-194.	2.5	88
67	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. <i>Nature Communications</i> , 2018, 9, 1011.	12.8	87
68	Lattice-Mismatch-Induced Twinning for Seeded Growth of Anisotropic Nanostructures. <i>ACS Nano</i> , 2015, 9, 3307-3313.	14.6	86
69	Ink Engineering of Inkjet Printing Perovskite. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39082-39091.	8.0	85
70	Recombination activity of $\Sigma$ boundaries in boron-doped multicrystalline silicon: Influence of iron contamination. <i>Journal of Applied Physics</i> , 2005, 97, 033701.	2.5	84
71	Preparation and characterization of water-soluble CdS nanocrystals by surface modification of ethylene diamine. <i>Materials Letters</i> , 2005, 59, 1024-1027.	2.6	83
72	Optimum Quantum Yield of the Light Emission from 2 to 10 nm Hydrosilylated Silicon Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 44-52.	2.3	83

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73	Size-controlled synthesis of Pd nanosheets for tunable plasmonic properties. <i>CrystEngComm</i> , 2015, 17, 1833-1838.	2.6	81
74	Direct CVD Growth of Graphene on Technologically Important Dielectric and Semiconducting Substrates. <i>Advanced Science</i> , 2018, 5, 1800050.	11.2	81
75	Electroluminescent synaptic devices with logic functions. <i>Nano Energy</i> , 2018, 54, 383-389.	16.0	80
76	Texturization of monocrystalline silicon with tribasic sodium phosphate. <i>Solar Energy Materials and Solar Cells</i> , 2003, 77, 255-263.	6.2	79
77	Fairly pure ultraviolet electroluminescence from ZnO-based light-emitting devices. <i>Applied Physics Letters</i> , 2006, 89, 111112.	3.3	79
78	Metal Oxide and Sulfide Hollow Spheres: Layer-By-Layer Synthesis and Their Application in Lithium-Ion Battery. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14836-14842.	2.6	78
79	Effect of nitrogen-oxygen complex on electrical properties of Czochralski silicon. <i>Applied Physics Letters</i> , 1996, 68, 487-489.	3.3	77
80	Effects of complexing agent on CdS thin films prepared by chemical bath deposition. <i>Materials Letters</i> , 2004, 58, 5-9.	2.6	77
81	Fabrication of Flower-Like Silver Structures through Anisotropic Growth. <i>Langmuir</i> , 2011, 27, 6211-6217.	3.5	77
82	Investigation of texturization for monocrystalline silicon solar cells with different kinds of alkaline. <i>Renewable Energy</i> , 2004, 29, 2101-2107.	8.9	76
83	Directional CdS nanowires fabricated by chemical bath deposition. <i>Journal of Crystal Growth</i> , 2002, 246, 108-112.	1.5	75
84	Order-aligned Mn <sub>3</sub> O <sub>4</sub> nanostructures as super high-rate electrodes for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 222, 32-37.	7.8	75
85	Trap Assisted Bulk Silicon Photodetector with High Photoconductive Gain, Low Noise, and Fast Response by Ag Hyperdoping. <i>Advanced Optical Materials</i> , 2018, 6, 1700638.	7.3	75
86	Three-dimensionally porous Fe <sub>3</sub> O <sub>4</sub> as high-performance anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 246, 198-203.	7.8	74
87	Improved performance and air stability of planar perovskite solar cells via interfacial engineering using a fullerene amine interlayer. <i>Nano Energy</i> , 2016, 28, 330-337.	16.0	74
88	Silicon nanocrystals: unfading silicon materials for optoelectronics. <i>Materials Science and Engineering Reports</i> , 2019, 138, 85-117.	31.8	74
89	From ZnO nanorods to 3D hollow microhemispheres: solvothermal synthesis, photoluminescence and gas sensor properties. <i>Nanotechnology</i> , 2007, 18, 455604.	2.6	73
90	Interface coupling in graphene/fluorographene heterostructure for high-performance graphene/silicon solar cells. <i>Nano Energy</i> , 2016, 28, 12-18.	16.0	73

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91	Scalable Synthesis of Pore-Rich Si/C@C Core-Shell-Structured Microspheres for Practical Long-Life Lithium-Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 10308-10318.	8.0	73
92	Straight and Thin ZnO Nanorods: A Hectogram-Scale Synthesis at Low Temperature and Cathodoluminescence. <i>Journal of Physical Chemistry B</i> , 2006, 110, 827-830.	2.6	72
93	Homogeneous coating of Au and SnO <sub>2</sub> nanocrystals on carbon nanotubes via layer-by-layer assembly: a new ternary hybrid for a room-temperature CO gas sensor. <i>Chemical Communications</i> , 2008, , 6182.	4.1	72
94	Room temperature electrically pumped ultraviolet random lasing from ZnO nanorod arrays on Si. <i>Optics Express</i> , 2009, 17, 14426.	3.4	71
95	Low-cost solar grade silicon purification process with Al-Si system using a powder metallurgy technique. <i>Separation and Purification Technology</i> , 2011, 77, 33-39.	7.9	70
96	Facile synthesis of Pd-Pt alloy concave nanocubes with high-index facets as electrocatalysts for methanol oxidation. <i>CrystEngComm</i> , 2014, 16, 2411-2416.	2.6	69
97	Elimination of Interfacial Electrochemical Reaction-Induced Polarization in Perovskite Single Crystals for Ultrasensitive and Stable X-Ray Detector Arrays. <i>Advanced Materials</i> , 2021, 33, e2103078.	21.0	69
98	Boron- and Phosphorus-Hyperdoped Silicon Nanocrystals. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 213-221.	2.3	68
99	Light-Emitting Diodes Based on Colloidal Silicon Quantum Dots with Octyl and Phenylpropyl Ligands. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5959-5966.	8.0	68
100	Dual-Modal Optoelectronic Synaptic Devices with Versatile Synaptic Plasticity. <i>Advanced Functional Materials</i> , 2022, 32, 2107973.	14.9	68
101	Synthesis of Co <sub>2</sub> SnO <sub>4</sub> @C core-shell nanostructures with reversible lithium storage. <i>Journal of Power Sources</i> , 2011, 196, 10234-10239.	7.8	66
102	One-pot, large-scale synthesis of SnO <sub>2</sub> nanotubes at room temperature. <i>Chemical Communications</i> , 2008, , 3028.	4.1	65
103	Synthesis of polycrystalline SnO <sub>2</sub> nanotubes on carbon nanotube template for anode material of lithium-ion battery. <i>Materials Research Bulletin</i> , 2009, 44, 211-215.	5.2	64
104	An 8.68% Efficiency Chemically-Doped-Free Graphene-Silicon Solar Cell Using Silver Nanowires Network Buried Contacts. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 4135-4141.	8.0	64
105	Large-scale synthesis of Si@C three-dimensional porous structures as high-performance anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20494-20499.	10.3	63
106	Size-Dependent Structures and Optical Absorption of Boron-Hyperdoped Silicon Nanocrystals. <i>Advanced Optical Materials</i> , 2016, 4, 700-707.	7.3	63
107	Synthesis of ultrafine lanthanum hydroxide nanorods by a simple hydrothermal process. <i>Materials Letters</i> , 2004, 58, 1180-1182.	2.6	62
108	Hydrothermal synthesis, characterization and properties of SnS nanoflowers. <i>Materials Letters</i> , 2006, 60, 2686-2689.	2.6	62

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109	Silicene oxides: formation, structures and electronic properties. <i>Scientific Reports</i> , 2013, 3, 3507.	3.3	62
110	Ultrathin Two-Dimensional Pd-Based Nanorings as Catalysts for Hydrogenation with High Activity and Stability. <i>Small</i> , 2015, 11, 4745-4752.	10.0	62
111	Enhanced performance and light soaking stability of planar perovskite solar cells using an amine-based fullerene interfacial modifier. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18509-18515.	10.3	62
112	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy Band Engineering. <i>Advanced Materials</i> , 2019, 31, e1902543.	21.0	62
113	Self-Powered FA <sub>0.55</sub> MA <sub>0.45</sub> PbI <sub>3</sub> Single-Crystal Perovskite X-Ray Detectors with High Sensitivity. <i>Advanced Functional Materials</i> , 2022, 32, 2109149.	14.9	62
114	Hydrothermal growth and characterization of magnetite (Fe <sub>3</sub> O <sub>4</sub> ) thin films. <i>Surface and Coatings Technology</i> , 2007, 201, 5870-5874.	4.8	61
115	Phase-Selective Synthesis and Self-Assembly of Monodisperse Copper Sulfide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13390-13394.	3.1	61
116	Novel CuS hollow spheres fabricated by a novel hydrothermal method. <i>Microporous and Mesoporous Materials</i> , 2005, 80, 153-156.	4.4	60
117	Hydrothermal synthesis of flower-like SrCO <sub>3</sub> nanostructures. <i>Materials Letters</i> , 2005, 59, 420-422.	2.6	60
118	ZnO:Eu thin-films: Sol-gel derivation and strong photoluminescence from 5D <sub>0</sub> →7F <sub>0</sub> transition of Eu <sup>3+</sup> ions. <i>Journal of Alloys and Compounds</i> , 2007, 431, 317-320.	5.5	60
119	Layer-stacked tin disulfide nanorods in silica nanoreactors with improved lithium storage capabilities. <i>Nanoscale</i> , 2012, 4, 4002.	5.6	60
120	Atomistic Surface Passivation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Single Crystals for Highly Sensitive Coplanar-Structure X-Ray Detectors. <i>Research</i> , 2020, 2020, 5958243.	5.7	60
121	InOOH Hollow Spheres Synthesized by a Simple Hydrothermal Reaction. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20676-20679.	2.6	59
122	Large-scale synthesis and application of SnS <sub>2</sub> /graphene nanocomposites as anode materials for lithium-ion batteries with enhanced cyclic performance and reversible capacity. <i>Journal of Alloys and Compounds</i> , 2013, 580, 457-464.	5.5	59
123	Rational design of three-dimensional macroporous silicon as high performance Li-ion battery anodes with long cycle life. <i>Journal of Power Sources</i> , 2016, 331, 76-81.	7.8	59
124	An improved seed-mediated growth method to coat complete silver shells onto silica spheres for surface-enhanced Raman scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 387, 17-22.	4.7	58
125	Impact of solar irradiance intensity and temperature on the performance of compensated crystalline silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 128, 427-434.	6.2	58
126	High Efficiency Organic/Silicon-Nanowire Hybrid Solar Cells: Significance of Strong Inversion Layer. <i>Scientific Reports</i> , 2015, 5, 17371.	3.3	58

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127	Electronic and magnetic properties of graphene, silicene and germanene with varying vacancy concentration. <i>AIP Advances</i> , 2017, 7, .	1.3	58
128	Synthesis and Field Emission Characteristics of Bilayered ZnO Nanorod Array Prepared by Chemical Reaction. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17055-17059.	2.6	57
129	Effect of pressure on nanocrystalline diamond films deposition by hot filament CVD technique from CH <sub>4</sub> /H <sub>2</sub> gas mixture. <i>Surface and Coatings Technology</i> , 2007, 202, 261-267.	4.8	57
130	Effect of oxygen precipitation on the performance of Czochralski silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3148-3151.	6.2	57
131	Low-Temperature Growth of Uniform ZnO Particles with Controllable Ellipsoidal Morphologies and Characteristic Luminescence Patterns. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19147-19153.	2.6	56
132	Carbon nanotube-based magnetic-fluorescent nanohybrids as highly efficient contrast agents for multimodal cellular imaging. <i>Journal of Materials Chemistry</i> , 2010, 20, 9895.	6.7	56
133	Facile synthesis of uniform MWCNT@Si nanocomposites as high-performance anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 622, 966-972.	5.5	56
134	Temperature-Dependent Raman Scattering of Silicon Nanowires. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1229-1234.	2.6	55
135	Electroluminescence of SnO <sub>2</sub> /p-Si heterojunction. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	55
136	First-Principles Study of 2.2 nm Silicon Nanocrystals Doped with Boron. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9838-9843.	3.1	55
137	Rare-Earth Doped ZnO Films: A Material Platform to Realize Multicolor and Near-Infrared Electroluminescence. <i>Advanced Optical Materials</i> , 2014, 2, 240-244.	7.3	55
138	Facile synthesis of Rh-Pd alloy nanodendrites as highly active and durable electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 7012-7018.	5.6	55
139	Cu-Sn Core-Shell Nanowire Arrays as Three-Dimensional Electrodes for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23620-23624.	3.1	54
140	Silver Nanoshell Plasmonically Controlled Emission of Semiconductor Quantum Dots in the Strong Coupling Regime. <i>ACS Nano</i> , 2016, 10, 4154-4163.	14.6	54
141	Synthesis of CdS nanotubes by chemical bath deposition. <i>Journal of Crystal Growth</i> , 2004, 263, 372-376.	1.5	53
142	Origin of room temperature ferromagnetism in MgO films. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	53
143	Impurity engineering of Czochralski silicon. <i>Materials Science and Engineering Reports</i> , 2013, 74, 1-33.	31.8	52
144	Stabilizing Fullerene for Burn-Free and Stable Perovskite Solar Cells under Ultraviolet Preconditioning and Light Soaking. <i>Advanced Materials</i> , 2021, 33, e2006910.	21.0	52

#	ARTICLE	IF	CITATIONS
145	Bioinspired molecules design for bilateral synergistic passivation in buried interfaces of planar perovskite solar cells. <i>Nano Research</i> , 2022, 15, 1069-1078.	10.4	52
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