

# Piedong Yang

## List of Publications by Year in descending order

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269  
papers

100,431  
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all docs

276  
docs citations

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times ranked

68733  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Ultraviolet Nanowire Nanolasers. <i>Science</i> , 2001, 292, 1897-1899.	12.6	8,567
2	Nanowire dye-sensitized solar cells. <i>Nature Materials</i> , 2005, 4, 455-459.	27.5	5,232
3	Enhanced thermoelectric performance of rough silicon nanowires. <i>Nature</i> , 2008, 451, 163-167.	27.8	3,721
4	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. <i>Science</i> , 2014, 343, 1339-1343.	12.6	2,376
5	Shape Control of Colloidal Metal Nanocrystals. <i>Small</i> , 2008, 4, 310-325.	10.0	2,205
6	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO <sub>2</sub> reduction in water. <i>Science</i> , 2015, 349, 1208-1213.	12.6	2,046
7	Light Trapping in Silicon Nanowire Solar Cells. <i>Nano Letters</i> , 2010, 10, 1082-1087.	9.1	2,038
8	Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3031-3034.	13.8	1,562
9	Nanowire photonics. <i>Nature Photonics</i> , 2009, 3, 569-576.	31.4	1,548
10	Thermal conductivity of individual silicon nanowires. <i>Applied Physics Letters</i> , 2003, 83, 2934-2936.	3.3	1,536
11	General Route to Vertical ZnO Nanowire Arrays Using Textured ZnO Seeds. <i>Nano Letters</i> , 2005, 5, 1231-1236.	9.1	1,382
12	Thermally stable Pt/mesoporous silica core-shell nanocatalysts for high-temperature reactions. <i>Nature Materials</i> , 2009, 8, 126-131.	27.5	1,372
13	Semiconductor Nanowires for Energy Conversion. <i>Chemical Reviews</i> , 2010, 110, 527-546.	47.7	1,317
14	SEMICONDUCTOR NANOWIRES AND NANOTUBES. <i>Annual Review of Materials Research</i> , 2004, 34, 83-122.	9.3	1,304
15	Langmuir-Blodgett Silver Nanowire Monolayers for Molecular Sensing Using Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2003, 3, 1229-1233.	9.1	1,267
16	Atomically thin two-dimensional organic-inorganic hybrid perovskites. <i>Science</i> , 2015, 349, 1518-1521.	12.6	1,159
17	Shaping binary metal nanocrystals through epitaxial seeded growth. <i>Nature Materials</i> , 2007, 6, 692-697.	27.5	1,156
18	Single gallium nitride nanowire lasers. <i>Nature Materials</i> , 2002, 1, 106-110.	27.5	1,144

#	ARTICLE	IF	CITATIONS
19	Synergistic geometric and electronic effects for electrochemical reduction of carbon dioxide using gold-copper bimetallic nanoparticles. <i>Nature Communications</i> , 2014, 5, 4948.	12.8	1,062
20	Highly Luminescent Colloidal Nanoplates of Perovskite Cesium Lead Halide and Their Oriented Assemblies. <i>Journal of the American Chemical Society</i> , 2015, 137, 16008-16011.	13.7	1,004
21	Direct Observation of Vapor-Liquid-Solid Nanowire Growth. <i>Journal of the American Chemical Society</i> , 2001, 123, 3165-3166.	13.7	980
22	Metal-Organic Frameworks for Electrocatalytic Reduction of Carbon Dioxide. <i>Journal of the American Chemical Society</i> , 2015, 137, 14129-14135.	13.7	966
23	Block-by-Block Growth of Single-Crystalline Si/SiGe Superlattice Nanowires. <i>Nano Letters</i> , 2002, 2, 83-86.	9.1	942
24	Platonic Gold Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3673-3677.	13.8	879
25	Nanoribbon Waveguides for Subwavelength Photonics Integration. <i>Science</i> , 2004, 305, 1269-1273.	12.6	879
26	Solution-Phase Synthesis of Cesium Lead Halide Perovskite Nanowires. <i>Journal of the American Chemical Society</i> , 2015, 137, 9230-9233.	13.7	861
27	Designing materials for electrochemical carbon dioxide recycling. <i>Nature Catalysis</i> , 2019, 2, 648-658.	34.4	838
28	Platinum Nanoparticle Shape Effects on Benzene Hydrogenation Selectivity. <i>Nano Letters</i> , 2007, 7, 3097-3101. <i>Photochemical Sensing of NO<sub>2</sub> with SrO<sub>2</sub> Nanoribbon Nanosensors at Room Temperature. This work was supported by the Camille and Henry Dreyfus Foundation, 3M Corporation, the National Science Foundation, and the University of California, Berkeley. P.Y. is an Alfred P. Sloan Research Fellow. Work at the Lawrence Berkeley National Laboratory was supported by the Office of Science, Basic Energy Sciences, Division of Materials Science of the US Department of Energy. We thank the National Center for Electron Microsc.</i> <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2405.	9.1	811
29	Self-photosensitization of nonphotosynthetic bacteria for solar-to-chemical production. <i>Science</i> , 2016, 351, 74-77.	13.8	785
30	25th Anniversary Article: Semiconductor Nanowires – Synthesis, Characterization, and Applications. <i>Advanced Materials</i> , 2014, 26, 2137-2184.	21.0	759
32	Catalyst electro-redistribution controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018, 1, 103-110.	34.4	737
33	Silicon Vertically Integrated Nanowire Field Effect Transistors. <i>Nano Letters</i> , 2006, 6, 973-977.	9.1	730
34	Semiconductor Nanowire: What's Next?. <i>Nano Letters</i> , 2010, 10, 1529-1536.	9.1	717
35	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	14.6	705
36	Polyhedral Silver Nanocrystals with Distinct Scattering Signatures. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4597-4601.	13.8	693

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37	Lasing in robust cesium lead halide perovskite nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1993-1998.	7.1	668
38	Simultaneously Efficient Light Absorption and Charge Separation in $\text{WO}_3/\text{BiVO}_4$ Core/Shell Nanowire Photoanode for Photoelectrochemical Water Oxidation. <i>Nano Letters</i> , 2014, 14, 1099-1105.	9.1	652
39	Giant piezoresistance effect in silicon nanowires. <i>Nature Nanotechnology</i> , 2006, 1, 42-46.	31.5	651
40	Solution-Grown Zinc Oxide Nanowires. <i>Inorganic Chemistry</i> , 2006, 45, 7535-7543.	4.0	647
41	Thermochromic halide perovskite solar cells. <i>Nature Materials</i> , 2018, 17, 261-267.	27.5	630
42	Morphological Control of Catalytically Active Platinum Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7824-7828.	13.8	608
43	Anisotropic Etching of Silver Nanoparticles for Plasmonic Structures Capable of Single-Particle SERS. <i>Journal of the American Chemical Society</i> , 2010, 132, 268-274.	13.7	584
44	Langmuir-Blodgett Nanorod Assembly. <i>Journal of the American Chemical Society</i> , 2001, 123, 4360-4361.	13.7	578
45	Dendritic Nanowire Ultraviolet Laser Array. <i>Journal of the American Chemical Society</i> , 2003, 125, 4728-4729.	13.7	577
46	Complete composition tunability of InGaN nanowires using a combinatorial approach. <i>Nature Materials</i> , 2007, 6, 951-956.	27.5	576
47	Tunable plasmonic lattices of silver nanocrystals. <i>Nature Nanotechnology</i> , 2007, 2, 435-440.	31.5	572
48	ZnO Nanowire Transistors. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9-14.	2.6	561
49	Artificial Photosynthesis for Sustainable Fuel and Chemical Production. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3259-3266.	13.8	550
50	Tunable nanowire nonlinear optical probe. <i>Nature</i> , 2007, 447, 1098-1101.	27.8	544
51	Electrodeposited Cobalt-Sulfide Catalyst for Electrochemical and Photoelectrochemical Hydrogen Generation from Water. <i>Journal of the American Chemical Society</i> , 2013, 135, 17699-17702.	13.7	540
52	Self-assembly of uniform polyhedral silver nanocrystals into densest packings and exotic superlattices. <i>Nature Materials</i> , 2012, 11, 131-137.	27.5	539
53	Sub-Two Nanometer Single Crystal Au Nanowires. <i>Nano Letters</i> , 2008, 8, 2041-2044.	9.1	538
54	High Density n-Si/n-TiO <sub>2</sub> Core/Shell Nanowire Arrays with Enhanced Photoactivity. <i>Nano Letters</i> , 2009, 9, 410-415.	9.1	535

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55	Electrochemical Activation of CO <sub>2</sub> through Atomic Ordering Transformations of AuCu Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 8329-8336.	13.7	529
56	Plasmon-Enhanced Photocatalytic CO <sub>2</sub> Conversion within Metal-Organic Frameworks under Visible Light. <i>Journal of the American Chemical Society</i> , 2017, 139, 356-362.	13.7	511
57	Pt Nanocrystals: Å Shape Control and Langmuir-Blodgett Monolayer Formation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 188-193.	2.6	510
58	A Fully Integrated Nanosystem of Semiconductor Nanowires for Direct Solar Water Splitting. <i>Nano Letters</i> , 2013, 13, 2989-2992.	9.1	506
59	Hydrothermal Growth of Mesoporous SBA-15 Silica in the Presence of PVP-Stabilized Pt Nanoparticles: % Synthesis, Characterization, and Catalytic Properties. <i>Journal of the American Chemical Society</i> , 2006, 128, 3027-3037.	13.7	493
60	Solution-processed core-“shell nanowires for efficient photovoltaic cells. <i>Nature Nanotechnology</i> , 2011, 6, 568-572.	31.5	492
61	Surface and Interface Control in Nanoparticle Catalysis. <i>Chemical Reviews</i> , 2020, 120, 1184-1249.	47.7	492
62	Interfacing Silicon Nanowires with Mammalian Cells. <i>Journal of the American Chemical Society</i> , 2007, 129, 7228-7229.	13.7	490
63	Bismuth Nanotubes: Å A Rational Low-Temperature Synthetic Route. <i>Journal of the American Chemical Society</i> , 2001, 123, 9904-9905.	13.7	481
64	Sub-10 nm Platinum Nanocrystals with Size and Shape Control: Catalytic Study for Ethylene and Pyrrole Hydrogenation. <i>Journal of the American Chemical Society</i> , 2009, 131, 5816-5822.	13.7	480
65	Copper nanoparticle ensembles for selective electroreduction of CO <sub>2</sub> to C <sub>2</sub> products. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10560-10565.	7.1	479
66	Nanocrystal bilayer for tandem catalysis. <i>Nature Chemistry</i> , 2011, 3, 372-376.	13.6	466
67	Crystallographic alignment of high-density gallium nitride nanowire arrays. <i>Nature Materials</i> , 2004, 3, 524-528.	27.5	454
68	Langmuir-Blodgett of Nanocrystals and Nanowires. <i>Accounts of Chemical Research</i> , 2008, 41, 1662-1673.	15.6	429
69	Single Nanowire Lasers. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11387-11390.	2.6	425
70	Nanowire photonics. <i>Materials Today</i> , 2006, 9, 36-45.	14.2	408
71	Optical trapping and integration of semiconductor nanowire assemblies in water. <i>Nature Materials</i> , 2006, 5, 97-101.	27.5	399
72	Encapsulation of Perovskite Nanocrystals into Macroscale Polymer Matrices: Enhanced Stability and Polarization. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35523-35533.	8.0	398

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73	Synthesis of Composition Tunable and Highly Luminescent Cesium Lead Halide Nanowires through Anion-Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 7236-7239.	13.7	397
74	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO <sub>2</sub> to Formate. <i>Joule</i> , 2017, 1, 794-805.	24.0	390
75	Ligand Mediated Transformation of Cesium Lead Bromide Perovskite Nanocrystals to Lead Depleted Cs <sub>4</sub> PbBr <sub>6</sub> Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 5309-5312.	13.7	389
76	Very High Frequency Silicon Nanowire Electromechanical Resonators. <i>Nano Letters</i> , 2007, 7, 1953-1959.	9.1	381
77	Oligo- and Polythiophene/ZnO Hybrid Nanowire Solar Cells. <i>Nano Letters</i> , 2010, 10, 334-340.	9.1	381
78	Photoelectrochemical Properties of TiO <sub>2</sub> Nanowire Arrays: A Study of the Dependence on Length and Atomic Layer Deposition Coating. <i>ACS Nano</i> , 2012, 6, 5060-5069.	14.6	378
79	Structure-Sensitive CO <sub>2</sub> Electroreduction to Hydrocarbons on Ultrathin 5-fold Twinned Copper Nanowires. <i>Nano Letters</i> , 2017, 17, 1312-1317.	9.1	363
80	Metalorganic Chemical Vapor Deposition Route to GaN Nanowires with Triangular Cross Sections. <i>Nano Letters</i> , 2003, 3, 1063-1066.	9.1	362
81	Nanowire-Bacteria Hybrids for Unassisted Solar Carbon Dioxide Fixation to Value-Added Chemicals. <i>Nano Letters</i> , 2015, 15, 3634-3639.	9.1	362
82	Bacteria photosensitized by intracellular gold nanoclusters for solar fuel production. <i>Nature Nanotechnology</i> , 2018, 13, 900-905.	31.5	362
83	Thermal conductivity of Si/SiGe superlattice nanowires. <i>Applied Physics Letters</i> , 2003, 83, 3186-3188.	3.3	355
84	Nanowire-Based All-Oxide Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 3756-3761.	13.7	345
85	Growth and Anion Exchange Conversion of CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> Nanorod Arrays for Light-Emitting Diodes. <i>Nano Letters</i> , 2015, 15, 5519-5524.	9.1	342
86	A Molecular Surface Functionalization Approach to Tuning Nanoparticle Electrocatalysts for Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2016, 138, 8120-8125.	13.7	340
87	Semiconductor nanowire lasers. <i>Nature Reviews Materials</i> , 2016, 1, .	48.7	332
88	Large-Scale Synthesis of Transition-Metal-Doped TiO <sub>2</sub> Nanowires with Controllable Overpotential. <i>Journal of the American Chemical Society</i> , 2013, 135, 9995-9998.	13.7	326
89	Interfacing nature's catalytic machinery with synthetic materials for semi-artificial photosynthesis. <i>Nature Nanotechnology</i> , 2018, 13, 890-899.	31.5	322
90	Thermal Conductance of Thin Silicon Nanowires. <i>Physical Review Letters</i> , 2008, 101, 105501.	7.8	316

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91	Semiconductor Nanowires for Artificial Photosynthesis. <i>Chemistry of Materials</i> , 2014, 26, 415-422.	6.7	314
92	Room-temperature Formation of Hollow Cu <sub>2</sub> O Nanoparticles. <i>Advanced Materials</i> , 2010, 22, 1910-1914.	21.0	308
93	Nanowire-based single-cell endoscopy. <i>Nature Nanotechnology</i> , 2012, 7, 191-196.	31.5	290
94	Quantifying Surface Roughness Effects on Phonon Transport in Silicon Nanowires. <i>Nano Letters</i> , 2012, 12, 2475-2482.	9.1	285
95	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020, 580, 614-620.	27.8	284
96	Self-Organized GaN Quantum Wire UV Lasers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8721-8725.	2.6	281
97	Bandgap engineering in semiconductor alloy nanomaterials with widely tunable compositions. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	279
98	The Making and Breaking of Lead-Free Double Perovskite Nanocrystals of Cesium Silver-Bismuth Halide Compositions. <i>Nano Letters</i> , 2018, 18, 3502-3508.	9.1	265
99	Energy and environment policy case for a global project on artificial photosynthesis. <i>Energy and Environmental Science</i> , 2013, 6, 695.	30.8	264
100	TiO <sub>2</sub> /BiVO <sub>4</sub> Nanowire Heterostructure Photoanodes Based on Type II Band Alignment. <i>ACS Central Science</i> , 2016, 2, 80-88.	11.3	263
101	Tunable Cu Enrichment Enables Designer Syngas Electrosynthesis from CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2017, 139, 9359-9363.	13.7	260
102	Surface-Enhanced Raman Spectroscopy for Trace Arsenic Detection in Contaminated Water. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6456-6460.	13.8	258
103	Atomic Layer Deposition of Platinum Catalysts on Nanowire Surfaces for Photoelectrochemical Water Reduction. <i>Journal of the American Chemical Society</i> , 2013, 135, 12932-12935.	13.7	256
104	Towards systems materials engineering. <i>Nature Materials</i> , 2012, 11, 560-563.	27.5	255
105	Electron delocalization and charge mobility as a function of reduction in a metal-organic framework. <i>Nature Materials</i> , 2018, 17, 625-632.	27.5	255
106	Dendrimer Templated Synthesis of One Nanometer Rh and Pt Particles Supported on Mesoporous Silica: Catalytic Activity for Ethylene and Pyrrole Hydrogenation. <i>Nano Letters</i> , 2008, 8, 2027-2034.	9.1	254
107	Ultralow thermal conductivity in all-inorganic halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8693-8697.	7.1	246
108	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. <i>Nature Materials</i> , 2016, 15, 1188-1194.	27.5	244

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109	Cu-Ag Tandem Catalysts for High-Rate CO <sub>2</sub> Electrolysis toward MulticARBONS. Joule, 2020, 4, 1688-1699.	24.0	239
110	Photosynthetic semiconductor biohybrids for solar-driven biocatalysis. Nature Catalysis, 2020, 3, 245-255.	34.4	237
111	Hybrid bioinorganic approach to solar-to-chemical conversion. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11461-11466.	7.1	234
112	Ultrathin Colloidal Cesium Lead Halide Perovskite Nanowires. Journal of the American Chemical Society, 2016, 138, 13155-13158.	13.7	234
113	Self-Transducing Silicon Nanowire Electromechanical Systems at Room Temperature. Nano Letters, 2008, 8, 1756-1761.	9.1	233
114	Highly Selective Synthesis of Catalytically Active Monodisperse Rhodium Nanocubes. Journal of the American Chemical Society, 2008, 130, 5868-5869.	13.7	226
115	Optical routing and sensing with nanowire assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7800-7805.	7.1	224
116	The Chemistry and Physics of Semiconductor Nanowires. MRS Bulletin, 2005, 30, 85-91.	3.5	217
117	Si/InGaN Core/Shell Hierarchical Nanowire Arrays and their Photoelectrochemical Properties. Nano Letters, 2012, 12, 1678-1682.	9.1	209
118	Transition-Metal Doped Zinc Oxide Nanowires. Angewandte Chemie - International Edition, 2006, 45, 420-423.	13.8	201
119	Atomic Structure of Pt <sub>3</sub> Ni Nanoframe Electrocatalysts by <i>in Situ</i> X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2015, 137, 15817-15824.	13.7	197
120	Shape, Size, and Assembly Control of PbTe Nanocrystals. Journal of the American Chemical Society, 2007, 129, 9864-9865.	13.7	192
121	Tandem Catalysis for CO <sub>2</sub> Hydrogenation to C <sub>2</sub> -C <sub>4</sub> Hydrocarbons. Nano Letters, 2017, 17, 3798-3802.	9.1	183
122	Self-Organized Silver Nanoparticles for Three-Dimensional Plasmonic Crystals. Nano Letters, 2008, 8, 4033-4038.	9.1	181
123	Vertical nanowire array-based light emitting diodes. Nano Research, 2008, 1, 123-128.	10.4	179
124	Synthesis of Ultrathin Copper Nanowires Using Tris(trimethylsilyl)silane for High-Performance and Low-Haze Transparent Conductors. Nano Letters, 2015, 15, 7610-7615.	9.1	179
125	Semiconductor Nanowire Ring Resonator Laser. Physical Review Letters, 2006, 96, 143903.	7.8	178
126	Spatially resolved multicolor CsPbX <sub>3</sub> nanowire heterojunctions via anion exchange. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7216-7221.	7.1	178

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127	Nanowires for Photonics. <i>Chemical Reviews</i> , 2019, 119, 9153-9169.	47.7	173
128	Nanofluidic Diodes Based on Nanotube Heterojunctions. <i>Nano Letters</i> , 2009, 9, 3820-3825.	9.1	169
129	Control of Architecture in Rhombic Dodecahedral Pt–Ni Nanoframe Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 11678-11681.	13.7	166
130	Three-Dimensional Phthalocyanine Metal-Catecholates for High Electrochemical Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 17081-17085.	13.7	165
131	Dopant profiling and surface analysis of silicon nanowires using capacitance–voltage measurements. <i>Nature Nanotechnology</i> , 2009, 4, 311-314.	31.5	159
132	Nanowire Photoelectrochemistry. <i>Chemical Reviews</i> , 2019, 119, 9221-9259.	47.7	158
133	One-Step Patterning of Aligned Nanowire Arrays by Programmed Dip Coating. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2414-2417.	13.8	156
134	Direct photonic–plasmonic coupling and routing in single nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21045-21050.	7.1	156
135	Solution-Processed Copper/Reduced-Graphene-Oxide Core/Shell Nanowire Transparent Conductors. <i>ACS Nano</i> , 2016, 10, 2600-2606.	14.6	155
136	Intrinsic anion diffusivity in lead halide perovskites is facilitated by a soft lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11929-11934.	7.1	153
137	High-Performance Pt–Co Nanoframes for Fuel-Cell Electrocatalysis. <i>Nano Letters</i> , 2020, 20, 1974-1979.	9.1	150
138	Surfactant-Free, Large-Scale, Solution–Liquid–Solid Growth of Gallium Phosphide Nanowires and Their Use for Visible-Light-Driven Hydrogen Production from Water Reduction. <i>Journal of the American Chemical Society</i> , 2011, 133, 19306-19309.	13.7	147
139	Cytoprotective metal-organic frameworks for anaerobic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10582-10587.	7.1	145
140	Electrical Characteristics and Chemical Stability of Non-Oxidized, Methyl-Terminated Silicon Nanowires. <i>Journal of the American Chemical Society</i> , 2006, 128, 8990-8991.	13.7	142
141	Mesoscopic Constructs of Ordered and Oriented Metal–Organic Frameworks on Plasmonic Silver Nanocrystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 2199-2202.	13.7	141
142	One-step Polyol Synthesis and Langmuir–Blodgett Monolayer Formation of Size-tunable Monodisperse Rhodium Nanocrystals with Catalytically Active (111) Surface Structures. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12243-12253.	3.1	136
143	Polarity Switching and Transient Responses in Single Nanotube Nanofluidic Transistors. <i>Physical Review Letters</i> , 2005, 95, 086607.	7.8	130
144	Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays. <i>Angewandte Chemie</i> , 2003, 115, 3139-3142.	2.0	129

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145	Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018, 9, 2525.	12.8	129
146	Tunable Polaron Distortions Control the Extent of Halide Demixing in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3998-4005.	4.6	129
147	Structural, optical, and electrical properties of phase-controlled cesium lead iodide nanowires. <i>Nano Research</i> , 2017, 10, 1107-1114.	10.4	128
148	Strongly Quantum Confined Colloidal Cesium Tin Iodide Perovskite Nanoplates: Lessons for Reducing Defect Density and Improving Stability. <i>Nano Letters</i> , 2018, 18, 2060-2066.	9.1	128
149	Spectroscopic elucidation of energy transfer in hybrid inorganicâ€“biological organisms for solar-to-chemical production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11750-11755.	7.1	125
150	Directed Assembly of Nanoparticle Catalysts on Nanowire Photoelectrodes for Photoelectrochemical CO <sub>2</sub> Reduction. <i>Nano Letters</i> , 2016, 16, 5675-5680.	9.1	125
151	Atomic Resolution Imaging of Halide Perovskites. <i>Nano Letters</i> , 2016, 16, 7530-7535.	9.1	125
152	Ultrathin Epitaxial Cu@Au Coreâ€“Shell Nanowires for Stable Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2017, 139, 7348-7354.	13.7	125
153	Oriented assembly of polyhedral plasmonic nanoparticle clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6640-6645.	7.1	124
154	Close-Packed Nanowire-Bacteria Hybrids for Efficient Solar-Driven CO <sub>2</sub> Fixation. <i>Joule</i> , 2020, 4, 800-811.	24.0	124
155	Investigation of phonon coherence and backscattering using silicon nanomeshes. <i>Nature Communications</i> , 2017, 8, 14054.	12.8	123
156	Introduction: 1D Nanomaterials/Nanowires. <i>Chemical Reviews</i> , 2019, 119, 8955-8957.	47.7	121
157	Synthesis of metal sulfide nanomaterials via thermal decomposition of single-source precursors. <i>Journal of Materials Chemistry</i> , 2010, 20, 6612.	6.7	118
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