

# Piedong Yang

## List of Publications by Year in descending order

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269  
papers

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276  
docs citations

276  
times ranked

79275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chloride-Assisted Corrosion of Copper and Protection by Benzotriazole. ACS Applied Materials & Interfaces, 2022, 14, 6093-6101.	4.0	5
2	The Interactive Dynamics of Nanocatalyst Structure and Microenvironment during Electrochemical CO <sub>2</sub> Conversion. JACS Au, 2022, 2, 562-572.	3.6	44
3	Controlling the Phase Transition in CsPbI <sub>3</sub> Nanowires. Nano Letters, 2022, 22, 2437-2443.	4.5	8
4	Ferroelectricity in a semiconducting all-inorganic halide perovskite. Science Advances, 2022, 8, eabj5881.	4.7	37
5	The presence and role of the intermediary CO reservoir in heterogeneous electroreduction of CO <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201922119.	3.3	17
6	Photoelectrochemical CO <sub>2</sub> Reduction toward Multicarbon Products with Silicon Nanowire Photocathodes Interfaced with Copper Nanoparticles. Journal of the American Chemical Society, 2022, 144, 8002-8006.	6.6	46
7	Laser-accelerated phase transformation in cesium lead iodide perovskite. Matter, 2022, 5, 1455-1465.	5.0	11
8	<i>Operando</i> Resonant Soft X-ray Scattering Studies of Chemical Environment and Interparticle Dynamics of Cu Nanocatalysts for CO <sub>2</sub> Electroreduction. Journal of the American Chemical Society, 2022, 144, 8927-8931.	6.6	18
9	Enhancing Biohybrid CO <sub>2</sub> to Multicarbon Reduction via Adapted Whole-Cell Catalysts. Nano Letters, 2022, 22, 5503-5509.	4.5	16
10	Photosynthetic biohybrid coculture for tandem and tunable CO <sub>2</sub> and N <sub>2</sub> fixation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
11	Supramolecular Assembly of Halide Perovskite Building Blocks. Journal of the American Chemical Society, 2022, 144, 12450-12458.	6.6	16
12	Nature of the Electrical Double Layer on Suspended Graphene Electrodes. Journal of the American Chemical Society, 2022, 144, 13327-13333.	6.6	8
13	Phase transition dynamics in one-dimensional halide perovskite crystals. MRS Bulletin, 2021, 46, 310-316.	1.7	8
14	Address the "alkalinity problem" in CO <sub>2</sub> electrolysis with catalyst design and translation. Joule, 2021, 5, 737-742.	11.7	110
15	Gold-Nanocluster-Mediated Delivery of siRNA to Intact Plant Cells for Efficient Gene Knockdown. Nano Letters, 2021, 21, 5859-5866.	4.5	53
16	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
17	Sulfur-doped graphene anchoring of ultrafine Au <sub>25</sub> nanoclusters for electrocatalysis. Nano Research, 2021, 14, 3509-3513.	5.8	26
18	A New Perspective and Design Principle for Halide Perovskites: Ionic Octahedron Network (ION). Nano Letters, 2021, 21, 5415-5421.	4.5	9

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19	Kinetics of moisture-induced phase transformation in inorganic halide perovskite. <i>Matter</i> , 2021, 4, 2392-2402.	5.0	34
20	Production of PHB From CO <sub>2</sub> -Derived Acetate With Minimal Processing Assessed for Space Biomanufacturing. <i>Frontiers in Microbiology</i> , 2021, 12, 700010.	1.5	17
21	Revealing the Phase Separation Behavior of Thermodynamically Immiscible Elements in a Nanoparticle. <i>Nano Letters</i> , 2021, 21, 6684-6689.	4.5	18
22	Liquid Sunlight: The Evolution of Photosynthetic Biohybrids. <i>Nano Letters</i> , 2021, 21, 5453-5456.	4.5	20
23	Ligand removal of Au <sub>25</sub> nanoclusters by thermal and electrochemical treatments for selective CO <sub>2</sub> electroreduction to CO. <i>Journal of Chemical Physics</i> , 2021, 155, 051101.	1.2	16
24	Heterostructured Au@Ir Catalysts for Enhanced Oxygen Evolution Reaction. , 2021, 3, 1440-1447.		20
25	On the occasion of the 80th birthday of Professor Yitai Qian: Celebrating 60 years of innovation in solid-state chemistry and nanoscience. <i>Nano Research</i> , 2021, 14, 3337-3342.	5.8	1
26	Molecular insights and future frontiers in cell photosensitization for solar-driven CO <sub>2</sub> conversion. <i>IScience</i> , 2021, 24, 102952.	1.9	17
27	Photoinduced Charge Transfer and Trapping on Single Gold Metal Nanoparticles on TiO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50531-50538.	4.0	12
28	The making of a reconfigurable semiconductor with a soft ionic lattice. <i>Matter</i> , 2021, 4, 3874-3896.	5.0	17
29	Interface Sensitivity in Electron/Ion Yield X-ray Absorption Spectroscopy: The TiO <sub>2</sub> @H <sub>2</sub> O Interface. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10212-10217.	2.1	17
30	Ligand-Free Processable Perovskite Semiconductor Ink. <i>Nano Letters</i> , 2021, 21, 8856-8862.	4.5	16
31	Lattice Dynamics and Optoelectronic Properties of Vacancy-Ordered Double Perovskite Cs <sub>2</sub> TeX <sub>6</sub> (X = Cl <sup>+</sup> , Br <sup>+</sup> , I <sup>+</sup> ) Single Crystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25126-25139.	1.5	17
32	Nanoparticle Assembly Induced Ligand Interactions for Enhanced Electrocatalytic CO <sub>2</sub> Conversion. <i>Journal of the American Chemical Society</i> , 2021, 143, 19919-19927.	6.6	32
33	Surface and Interface Control in Nanoparticle Catalysis. <i>Chemical Reviews</i> , 2020, 120, 1184-1249.	23.0	492
34	Cu-Ag Tandem Catalysts for High-Rate CO <sub>2</sub> Electrolysis toward Multicarbon. <i>Joule</i> , 2020, 4, 1688-1699.	11.7	239
35	Solid-State Ionic Rectification in Perovskite Nanowire Heterostructures. <i>Nano Letters</i> , 2020, 20, 8151-8156.	4.5	12
36	Liquid-like Interfaces Mediate Structural Phase Transitions in Lead Halide Perovskites. <i>Matter</i> , 2020, 3, 534-545.	5.0	42

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37	Ultrathin Free-Standing Oxide Membranes for Electron and Photon Spectroscopy Studies of Solid-Gas and Solid-Liquid Interfaces. <i>Nano Letters</i> , 2020, 20, 6364-6371.	4.5	24
38	Progress in Perovskite Photocatalysis. <i>ACS Energy Letters</i> , 2020, 5, 2602-2604.	8.8	83
39	Phase Transitions and Anion Exchange in All-Inorganic Halide Perovskites. <i>Accounts of Materials Research</i> , 2020, 1, 3-15.	5.9	67
40	Selective CO <sub>2</sub> electrocatalysis at the pseudocapacitive nanoparticle/ordered-ligand interlayer. <i>Nature Energy</i> , 2020, 5, 1032-1042.	19.8	99
41	Individually Encapsulated Frame-in-Frame Structure. , 2020, 2, 685-690.		10
42	Size Transformation of the Au <sub>22</sub> (SC) <sub>18</sub> Nanocluster and Its Surface-Sensitive Kinetics. <i>Journal of the American Chemical Society</i> , 2020, 142, 11514-11520.	6.6	30
43	Morphology-controlled transformation of Cu@Au core-shell nanowires into thermally stable Cu <sub>3</sub> Au intermetallic nanowires. <i>Nano Research</i> , 2020, 13, 2564-2569.	5.8	22
44	Photosynthetic semiconductor biohybrids for solar-driven biocatalysis. <i>Nature Catalysis</i> , 2020, 3, 245-255.	16.1	237
45	Lead halide perovskite nanowires stabilized by block copolymers for Langmuir-Blodgett assembly. <i>Nano Research</i> , 2020, 13, 1453-1458.	5.8	26
46	Two-Step Patterning of Scalable All-Inorganic Halide Perovskite Arrays. <i>ACS Nano</i> , 2020, 14, 3500-3508.	7.3	44
47	Effect of Anisotropic Confinement on Electronic Structure and Dynamics of Band Edge Excitons in Inorganic Perovskite Nanowires. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1867-1876.	1.1	33
48	High-Performance Pt-Co Nanoframes for Fuel-Cell Electrocatalysis. <i>Nano Letters</i> , 2020, 20, 1974-1979.	4.5	150
49	Structural and spectral dynamics of single-crystalline Ruddlesden-Popper phase halide perovskite blue light-emitting diodes. <i>Science Advances</i> , 2020, 6, eaay4045.	4.7	88
50	Lead-free Cesium Europium Halide Perovskite Nanocrystals. <i>Nano Letters</i> , 2020, 20, 3734-3739.	4.5	103
51	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020, 580, 614-620.	13.7	284
52	Close-Packed Nanowire-Bacteria Hybrids for Efficient Solar-Driven CO <sub>2</sub> Fixation. <i>Joule</i> , 2020, 4, 800-811.	11.7	124
53	Scaling Laws of Exciton Recombination Kinetics in Low Dimensional Halide Perovskite Nanostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 8871-8879.	6.6	26
54	Electrochemically scrambled nanocrystals are catalytically active for CO <sub>2</sub> -to-multicarbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9194-9201.	3.3	99

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55	Self-Assembly of Two-Dimensional Perovskite Nanosheet Building Blocks into Ordered Ruddlesdenâ€“Popper Perovskite Phase. <i>Journal of the American Chemical Society</i> , 2019, 141, 13028-13032.	6.6	59
56	Introduction: 1D Nanomaterials/Nanowires. <i>Chemical Reviews</i> , 2019, 119, 8955-8957.	23.0	121
57	Nanowires for Photonics. <i>Chemical Reviews</i> , 2019, 119, 9153-9169.	23.0	173
58	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. <i>Matter</i> , 2019, 1, 180-191.	5.0	35
59	Nanowire Photoelectrochemistry. <i>Chemical Reviews</i> , 2019, 119, 9221-9259.	23.0	158
60	Designing materials for electrochemical carbon dioxide recycling. <i>Nature Catalysis</i> , 2019, 2, 648-658.	16.1	838
61	Three-Dimensional Phthalocyanine Metal-Catecholates for High Electrochemical Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 17081-17085.	6.6	165
62	Solar-driven carbon dioxide fixation using photosynthetic semiconductor bio-hybrids. <i>Faraday Discussions</i> , 2019, 215, 54-65.	1.6	30
63	Perovskite nanowireâ€“block copolymer composites with digitally programmable polarization anisotropy. <i>Science Advances</i> , 2019, 5, eaav8141.	4.7	103
64	Quantitative imaging of anion exchange kinetics in halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12648-12653.	3.3	84
65	Ion Write Microthermotics: Programing Thermal Metamaterials at the Microscale. <i>Nano Letters</i> , 2019, 19, 3830-3837.	4.5	45
66	Pressure-induced semiconductor-to-metal phase transition of a charge-ordered indium halide perovskite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23404-23409.	3.3	45
67	Electrocatalytic Rate Alignment Enhances Syngas Generation. <i>Joule</i> , 2019, 3, 257-264.	11.7	62
68	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.	4.5	128
69	Thermochromic halide perovskite solar cells. <i>Nature Materials</i> , 2018, 17, 261-267.	13.3	630
70	Physical Biology of the Materialsâ€“Microorganism Interface. <i>Journal of the American Chemical Society</i> , 2018, 140, 1978-1985.	6.6	115
71	Catalyst electro-redeposition controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018, 1, 103-110.	16.1	737
72	The Making and Breaking of Lead-Free Double Perovskite Nanocrystals of Cesium Silverâ€“Bismuth Halide Compositions. <i>Nano Letters</i> , 2018, 18, 3502-3508.	4.5	265

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73	Roadmap on semiconductor-cell biointerfaces. <i>Physical Biology</i> , 2018, 15, 031002.	0.8	45
74	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.	3.3	153
75	Giant Light-Emission Enhancement in Lead Halide Perovskites by Surface Oxygen Passivation. <i>Nano Letters</i> , 2018, 18, 6967-6973.	4.5	59
76	Bacteria photosensitized by intracellular gold nanoclusters for solar fuel production. <i>Nature Nanotechnology</i> , 2018, 13, 900-905.	15.6	362
77	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.	3.3	145
78	Interfacing nature's catalytic machinery with synthetic materials for semi-artificial photosynthesis. <i>Nature Nanotechnology</i> , 2018, 13, 890-899.	15.6	322
79	Rich Chemistry in Inorganic Halide Perovskite Nanostructures. <i>Advanced Materials</i> , 2018, 30, e1802856.	11.1	106
80	Electrical and Optical Tunability in All-Inorganic Halide Perovskite Alloy Nanowires. <i>Nano Letters</i> , 2018, 18, 3538-3542.	4.5	51
81	Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018, 9, 2525.	5.8	129
82	Tunable Polaron Distortions Control the Extent of Halide Demixing in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3998-4005.	2.1	129
83	Synthesis of Silver Nanowires with Reduced Diameters Using Benzoin-Derived Radicals to Make Transparent Conductors with High Transparency and Low Haze. <i>Nano Letters</i> , 2018, 18, 5329-5334.	4.5	96
84	Effects of Catalyst Processing on the Activity and Stability of Pt-Ni Nanoframe Electrocatalysts. <i>ACS Nano</i> , 2018, 12, 8697-8705.	7.3	80
85	Phase-transition-induced p-n junction in single halide perovskite nanowire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8889-8894.	3.3	48
86	Electron delocalization and charge mobility as a function of reduction in a metal-organic framework. <i>Nature Materials</i> , 2018, 17, 625-632.	13.3	255
87	Structure-Sensitive CO <sub>2</sub> Electroreduction to Hydrocarbons on Ultrathin 5-fold Twinned Copper Nanowires. <i>Nano Letters</i> , 2017, 17, 1312-1317.	4.5	363
88	Investigation of phonon coherence and backscattering using silicon nanomeshes. <i>Nature Communications</i> , 2017, 8, 14054.	5.8	123
89	Benzoin Radicals as Reducing Agent for Synthesizing Ultrathin Copper Nanowires. <i>Journal of the American Chemical Society</i> , 2017, 139, 3027-3032.	6.6	40
90	Structural, optical, and electrical properties of phase-controlled cesium lead iodide nanowires. <i>Nano Research</i> , 2017, 10, 1107-1114.	5.8	128

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91	Ultrathin Epitaxial Cu@Au Core-Shell Nanowires for Stable Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2017, 139, 7348-7354.	6.6	125
92	Tandem Catalysis for CO <sub>2</sub> Hydrogenation to C <sub>2</sub> -C <sub>4</sub> Hydrocarbons. <i>Nano Letters</i> , 2017, 17, 3798-3802.	4.5	183
93	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.	6.6	529
94	Critical Role of Methylammonium Librational Motion in Methylammonium Lead Iodide (CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> ) Perovskite Photochemistry. <i>Nano Letters</i> , 2017, 17, 4151-4157.	4.5	55
95	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.	6.6	389
96	Room-Temperature Dynamics of Vanishing Copper Nanoparticles Supported on Silica. <i>Nano Letters</i> , 2017, 17, 2732-2737.	4.5	27
97	Cyborgian Material Design for Solar Fuel Production: The Emerging Photosynthetic Biohybrid Systems. <i>Accounts of Chemical Research</i> , 2017, 50, 476-481.	7.6	114
98	Bandgap engineering in semiconductor alloy nanomaterials with widely tunable compositions. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	279
99	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO <sub>2</sub> to Formate. <i>Joule</i> , 2017, 1, 794-805.	11.7	390
100	Copper nanoparticle ensembles for selective electroreduction of CO <sub>2</sub> to C <sub>2</sub> -C <sub>3</sub> products. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10560-10565.	3.3	479
101	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.	3.3	246
102	Ruddlesden-Popper Phase in Two-Dimensional Inorganic Halide Perovskites: A Plausible Model and the Supporting Observations. <i>Nano Letters</i> , 2017, 17, 5489-5494.	4.5	90
103	Control of Architecture in Rhombic Dodecahedral Pt-Ni Nanoframe Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 11678-11681.	6.6	166
104	Spatially resolved multicolor CsPbX <sub>3</sub> nanowire heterojunctions via anion exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7216-7221.	3.3	178
105	Room-Temperature Coherent Optical Phonon in 2D Electronic Spectra of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite as a Possible Cooling Bottleneck. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3211-3215.	2.1	73
106	Tunable Cu Enrichment Enables Designer Syngas Electrosynthesis from CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2017, 139, 9359-9363.	6.6	260
107	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.	6.6	511
108	Encapsulation of Perovskite Nanocrystals into Macroscale Polymer Matrices: Enhanced Stability and Polarization. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35523-35533.	4.0	398

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109	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.	6.6	397
110	Growth and Photoelectrochemical Energy Conversion of Wurtzite Indium Phosphide Nanowire Arrays. <i>ACS Nano</i> , 2016, 10, 5525-5535.	7.3	70
111	Ultrathin Colloidal Cesium Lead Halide Perovskite Nanowires. <i>Journal of the American Chemical Society</i> , 2016, 138, 13155-13158.	6.6	234
112	Spectroscopic elucidation of energy transfer in hybrid inorganic-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.	3.3	125
113	SINANO 10 <sup>th</sup> Anniversary Special Issue. <i>Small</i> , 2016, 12, 4920-4921.	5.2	0
114	Directed Assembly of Nanoparticle Catalysts on Nanowire Photoelectrodes for Photoelectrochemical CO <sub>2</sub> Reduction. <i>Nano Letters</i> , 2016, 16, 5675-5680.	4.5	125
115	Insights into the Mechanism of Tandem Alkene Hydroformylation over a Nanostructured Catalyst with Multiple Interfaces. <i>Journal of the American Chemical Society</i> , 2016, 138, 11568-11574.	6.6	82
116	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. <i>Nature Materials</i> , 2016, 15, 1188-1194.	13.3	244
117	Cysteine-Cystine Photoregeneration for Oxygenic Photosynthesis of Acetic Acid from CO <sub>2</sub> by a Tandem Inorganic-Biological Hybrid System. <i>Nano Letters</i> , 2016, 16, 5883-5887.	4.5	108
118	Atomic Resolution Imaging of Halide Perovskites. <i>Nano Letters</i> , 2016, 16, 7530-7535.	4.5	125
119	Semiconductor nanowire lasers. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	332
120	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.	6.6	340
121	Solution-Processed Copper/Reduced-Graphene-Oxide Core/Shell Nanowire Transparent Conductors. <i>ACS Nano</i> , 2016, 10, 2600-2606.	7.3	155
122	Synthesis of PtCo <sub>3</sub> polyhedral nanoparticles and evolution to Pt <sub>3</sub> Co nanoframes. <i>Surface Science</i> , 2016, 648, 328-332.	0.8	42
123	Low-Temperature Solution-Phase Growth of Silicon and Silicon-Containing Alloy Nanowires. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20525-20529.	1.5	4
124	Single-nanowire photoelectrochemistry. <i>Nature Nanotechnology</i> , 2016, 11, 609-612.	15.6	111
125	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.	3.3	668
126	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.	5.3	263



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127	Self-photosensitization of nonphotosynthetic bacteria for solar-to-chemical production. <i>Science</i> , 2016, 351, 74-77.	6.0	770
128	Core-Shell CdS-Cu <sub>2</sub> S Nanorod Array Solar Cells. <i>Nano Letters</i> , 2015, 15, 4096-4101.	4.5	114
129	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.	6.6	1,004
130	Atomic Structure of Pt <sub>3</sub> Ni Nanoframe Electrocatalysts by <i>in Situ</i> X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 15817-15824.	6.6	197
131	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.	6.6	141
132	Artificial Photosynthesis for Sustainable Fuel and Chemical Production. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3259-3266.	7.2	550
133	MoS <sub>2</sub> -wrapped silicon nanowires for photoelectrochemical water reduction. <i>Nano Research</i> , 2015, 8, 281-287.	5.8	87
134	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.	4.5	342
135	Solution-Phase Synthesis of Cesium Lead Halide Perovskite Nanowires. <i>Journal of the American Chemical Society</i> , 2015, 137, 9230-9233.	6.6	861
136	Lower threshold for nanowire lasers. <i>Nature Materials</i> , 2015, 14, 557-558.	13.3	74
137	Nanowire-Bacteria Hybrids for Unassisted Solar Carbon Dioxide Fixation to Value-Added Chemicals. <i>Nano Letters</i> , 2015, 15, 3634-3639.	4.5	362
138	Atomically thin two-dimensional organic-inorganic hybrid perovskites. <i>Science</i> , 2015, 349, 1518-1521.	6.0	1,159
139	Metal-Organic Frameworks for Electrocatalytic Reduction of Carbon Dioxide. <i>Journal of the American Chemical Society</i> , 2015, 137, 14129-14135.	6.6	966
140	Synthesis of Ultrathin Copper Nanowires Using Tris(trimethylsilyl)silane for High-Performance and Low-Haze Transparent Conductors. <i>Nano Letters</i> , 2015, 15, 7610-7615.	4.5	179
141	Hybrid bioinorganic approach to solar-to-chemical conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11461-11466.	3.3	234
142	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO <sub>2</sub> reduction in water. <i>Science</i> , 2015, 349, 1208-1213.	6.0	2,046
143	Nanowires for Photovoltaics and Artificial Photosynthesis. <i>RSC Smart Materials</i> , 2014, , 277-311.	0.1	2
144	Alumina-coated Ag nanocrystal monolayers as surface-enhanced Raman spectroscopy platforms for the direct spectroscopic detection of water splitting reaction intermediates. <i>Nano Research</i> , 2014, 7, 132-143.	5.8	35

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145	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. <i>Science</i> , 2014, 343, 1339-1343.	6.0	2,376
146	Simultaneously Efficient Light Absorption and Charge Separation in WO <sub>3</sub> /BiVO <sub>4</sub> Core/Shell Nanowire Photoanode for Photoelectrochemical Water Oxidation. <i>Nano Letters</i> , 2014, 14, 1099-1105.	4.5	652
147	25th Anniversary Article: Semiconductor Nanowires – Synthesis, Characterization, and Applications. <i>Advanced Materials</i> , 2014, 26, 2137-2184.	11.1	759
148	Semiconductor Nanowires for Artificial Photosynthesis. <i>Chemistry of Materials</i> , 2014, 26, 415-422.	3.2	314
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