Song Jin

List of Publications by Year
in descending order

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251 papers	39,021 citations	3116 95 h-index	3171 192 g-index
257 all docs	257 docs citations	257 times ranked	43822 citing authors

#	Article	IF	Citations
1	Geometrically stabilized skyrmionic vortex in FeGe tetrahedral nanoparticles. Nature Materials, 2022, 21, 305-310.	13.3	11
2	Stacking and Twisting of Layered Materials Enabled by Screw Dislocations and Non-Euclidean Surfaces. Accounts of Materials Research, 2022, 3, 369-378.	5.9	13
3	Disentangling Magnetic and Grain Contrast in Polycrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Fe</mml:mi><mml:mi>Ge</mml:mi></mml:math> Thin Films Using Four-Dimensional Lorentz Scanning Transmission Electron Microscopy. Physical Review Applied, 2022, 17, .	1.5	9
4	One-Pot Exosome Proteomics Enabled by a Photocleavable Surfactant. Analytical Chemistry, 2022, 94, 7164-7168.	3.2	9
5	Dynamic Tuning of MoirÃ© Superlattice Morphology by Laser Modification. ACS Nano, 2022, 16, 8172-8180.	7.3	3
6	Dextrosil-Viologen: A Robust and Sustainable Anolyte for Aqueous Organic Redox Flow Batteries. ACS Energy Letters, 2022, 7, 2428-2434.	8.8	34
7	Plasma-induced oxygen vacancies in amorphous MnOx boost catalytic performance for electrochemical CO2 reduction. Nano Energy, 2021, 79, 105492.	8.2	78
8	Deterministic fabrication of arbitrary vertical heterostructures of two-dimensional Ruddlesdenâ€“Popper halide perovskites. Nature Nanotechnology, 2021, 16, 159-165.	15.6	90
9	Modular Electrochemical Synthesis Using a Redox Reservoir Paired with Independent Half-Reactions. Joule, 2021, 5, 149-165.	11.7	37
10	An efficient and stable solar flow battery enabled by a single-junction GaAs photoelectrode. Nature Communications, 2021, 12, 156.	5.8	22
11	Distinct Carrier Transport Properties Across Horizontally vs Vertically Oriented Heterostructures of 2D/3D Perovskites. Journal of the American Chemical Society, 2021, 143, 4969-4978.	6.6	52
12	Anion Exchange of Ruddlesdenâ€“Popper Lead Halide Perovskites Produces Stable Lateral Heterostructures. Journal of the American Chemical Society, 2021, 143, 5212-5221.	6.6	37
13	Stable Tetrasubstituted Quinone Redox Reservoir for Enhancing Decoupled Hydrogen and Oxygen Evolution. ACS Energy Letters, 2021, 6, 1533-1539.	8.8	19
14	Modifying redox properties and local bonding of Co3O4 by CeO2 enhances oxygen evolution catalysis in acid. Nature Communications, 2021, 12, 3036.	5.8	262
15	Novel Strategies to Address the Challenges in Top-Down Proteomics. Journal of the American Society for Mass Spectrometry, 2021, 32, 1278-1294.	1.2	102
16	Life Cycle Assessment of Perovskite/Silicon Tandem Solar Cells Coupled with Solar Flow Battery Systems. , 2021, , .		1
17	Fluorine-Decorated Graphene Nanoribbons for an Anticorrosive Polymer Electrolyte Membrane Fuel Cell. ACS Applied Materials & Interfaces, 2021, 13, 26936-26947.	4.0	18
18	Structural O-Glycoform Heterogeneity of the SARS-CoV-2 Spike Protein Receptor-Binding Domain Revealed by Top-Down Mass Spectrometry. Journal of the American Chemical Society, 2021, 143, 12014-12024.	6.6	48

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19	Hierarchical Ni-Mo2C/N-doped carbon Mott-Schottky array for water electrolysis. Applied Catalysis B: Environmental, 2021, 292, 120168.	10.8	60
20	Compositionally Tuned Trimetallic Thiospinel Catalysts for Enhanced Electrosynthesis of Hydrogen Peroxide and Built-In Hydroxyl Radical Generation. ACS Catalysis, 2021, 11, 12643-12650.	5.5	23
21	Chemical Etching of Screw Dislocated Transition Metal Dichalcogenides. Nano Letters, 2021, 21, 7815-7822.	4.5	17
22	Atomic iridium species anchored on porous carbon network support: An outstanding electrocatalyst for CO2 conversion to CO. Applied Catalysis B: Environmental, 2021, 292, 120173.	10.8	20
23	Can We Find the Perfect A-Cations for Halide Perovskites?. ACS Energy Letters, 2021, 6, 3386-3389.	8.8	26
24	Why Seeing Is Not Always Believing: Common Pitfalls in Photocatalysis and Electrocatalysis. ACS Energy Letters, 2021, 6, 707-709.	8.8	28
25	Inâ€Plane Magnetic Fieldâ€Driven Creation and Annihilation of Magnetic Skyrmion Strings in Nanostructures. Advanced Functional Materials, 2021, 31, 2008521.	7.8	13
26	Defect-mediated ferromagnetism in correlated two-dimensional transition metal phosphorus trisulfides. Science Advances, 2021, 7, eabj4086.	4.7	35
27	Identification of the Active-Layer Structures for Acidic Oxygen Evolution from 9R-BaIrO₃ Electrocatalyst with Enhanced Iridium Mass Activity. Journal of the American Chemical Society, 2021, 143, 18001-18009.	6.6	73
28	Torsion strained iridium oxide for efficient acidic water oxidation in proton exchange membrane electrolyzers. Nature Nanotechnology, 2021, 16, 1371-1377.	15.6	197
29	Stereochemical expression of ns2 electron pairs in metal halide perovskites. Nature Reviews Chemistry, 2021, 5, 838-852.	13.8	53
30	Sustainable Coproduction of Two Disinfectants via Hydroxide-Balanced Modular Electrochemical Synthesis Using a Redox Reservoir. ACS Central Science, 2021, 7, 2083-2091.	5.3	7
31	Controllable Water Vapor Assisted Chemical Vapor Transport Synthesis of WS₂â€“MoS₂ Heterostructure. , 2020, 2, 42-48.		29
32	Quantum interference between the optical Stark effect and resonant harmonic generation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2020, 102, .	1.1	8
33	Design Principles and Developments of Integrated Solar Flow Batteries. Accounts of Chemical Research, 2020, 53, 2611-2621.	7.6	33
34	Supertwisted spirals of layered materials enabled by growth on non-Euclidean surfaces. Science, 2020, 370, 442-445.	6.0	65
35	Discerning between Exciton and Free-Carrier Behaviors in Ruddlesdenâ€“Popper Perovskite Quantum Wells through Kinetic Modeling of Photoluminescence Dynamics. Journal of Physical Chemistry C, 2020, 124, 17430-17439.	1.5	26
36	High-performance solar flow battery powered by a perovskite/silicon tandem solar cell. Nature Materials, 2020, 19, 1326-1331.	13.3	90

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37	Pressureâ€Suppressed Carrier Trapping Leads to Enhanced Emission in Twoâ€Dimensional Perovskite (HA)₂(GA)Pb₂I₇. Angewandte Chemie, 2020, 132, 17686-17692.	1.6	26
38	Photocleavable Surfactant-Enabled Extracellular Matrix Proteomics. Analytical Chemistry, 2020, 92, 15693-15698.	3.2	24
39	Top-Down Proteomics of Endogenous Membrane Proteins Enabled by Cloud Point Enrichment and Multidimensional Liquid Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2020, 92, 15726-15735.	3.2	24
40	Nanoproteomics enables proteoform-resolved analysis of low-abundance proteins in human serum. Nature Communications, 2020, 11, 3903.	5.8	43
41	Disentangling Second Harmonic Generation from Multiphoton Photoluminescence in Halide Perovskites using Multidimensional Harmonic Generation. Journal of Physical Chemistry Letters, 2020, 11, 6551-6559.	2.1	18
42	Stable and selective electrosynthesis of hydrogen peroxide and the electro-Fenton process on CoSe₂ polymorph catalysts. Energy and Environmental Science, 2020, 13, 4189-4203.	15.6	134
43	Phenethylammonium Functionalization Enhances Near-Surface Carrier Diffusion in Hybrid Perovskites. Journal of the American Chemical Society, 2020, 142, 16254-16264.	6.6	42
44	COVID-19, Climate Change, and Renewable Energy Research: We Are All in This Together, and the Time to Act Is Now. ACS Energy Letters, 2020, 5, 1709-1711.	8.8	40
45	Pressureâ€Suppressed Carrier Trapping Leads to Enhanced Emission in Twoâ€Dimensional Perovskite (HA)₂(GA)Pb₂I₇. Angewandte Chemie - International Edition, 2020, 59, 17533-17539.	7.2	71
46	Highâ€Throughput Proteomics Enabled by a Photocleavable Surfactant. Angewandte Chemie - International Edition, 2020, 59, 8406-8410.	7.2	37
47	Highâ€Throughput Proteomics Enabled by a Photocleavable Surfactant. Angewandte Chemie, 2020, 132, 8484-8488.	1.6	14
48	Efficient electrochemical production of glucaric acid and H2 via glucose electrolysis. Nature Communications, 2020, 11, 265.	5.8	280
49	Improved performance and stability of photoelectrochemical water-splitting Si system using a bifacial design to decouple light harvesting and electrocatalysis. Nano Energy, 2020, 70, 104478.	8.2	37
50	Temperature and Gate Dependence of Carrier Diffusion in Single Crystal Methylammonium Lead Iodide Perovskite Microstructures. Journal of Physical Chemistry Letters, 2020, 11, 1000-1006.	2.1	12
51	Atomicâ€Resolution Imaging of Halide Perovskites Using Electron Microscopy. Advanced Energy Materials, 2020, 10, 1904006.	10.2	57
52	Band Edge Tuning of Two-Dimensional Ruddlesdenâ€“Popper Perovskites by A Cation Size Revealed through Nanoplates. ACS Energy Letters, 2020, 5, 1430-1437.	8.8	51
53	Electrocatalytic Oxidation of Glycerol to Formic Acid by CuCo₂O₄ Spinel Oxide Nanostructure Catalysts. ACS Catalysis, 2020, 10, 6741-6752.	5.5	221
54	4D Scanning Transmission Electron Microscopy of a Twisted WS2 Multilayer Structure. Microscopy and Microanalysis, 2020, 26, 628-630.	0.2	0

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55	Resolving Internal Magnetic Structures of Skyrmions by Lorentz Electron Ptychography. Microscopy and Microanalysis, 2019, 25, 32-33.	0.2	4
56	Electrocatalytic Production of H₂O₂ by Selective Oxygen Reduction Using Earth-Abundant Cobalt Pyrite (CoS₂). ACS Catalysis, 2019, 9, 8433-8442.	5.5	167
57	A Long Lifetime Aqueous Organic Solar Flow Battery. Advanced Energy Materials, 2019, 9, 1900918.	10.2	31
58	Incorporating Large A Cations into Lead Iodide Perovskite Cages: Relaxed Goldschmidt Tolerance Factor and Impact on Excitonâ€“Phonon Interaction. ACS Central Science, 2019, 5, 1377-1386.	5.3	142
59	Electron Holography and Magnetotransport Measurements Reveal Stabilized Magnetic Skyrmions in Fe_{1â€“x}Co_xSi Nanowires. ACS Nano, 2019, 13, 7833-7841.	7.3	20
60	Metal halide perovskite nanostructures for optoelectronic applications and the study of physical properties. Nature Reviews Materials, 2019, 4, 169-188.	23.3	598
61	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	7.3	64
62	A Review on Recent Progress in the Aspect of Stability of Oxygen Reduction Electrocatalysts for Protonâ€Exchange Membrane Fuel Cell: Quantum Mechanics and Experimental Approaches. Energy Technology, 2019, 7, 1900312.	1.8	26
63	How to Effectively Utilize MOFs for Electrocatalysis. ACS Energy Letters, 2019, 4, 1443-1445.	8.8	119
64	Reproducible large-scale synthesis of surface silanized nanoparticles as an enabling nanoproteomics platform: Enrichment of the human heart phosphoproteome. Nano Research, 2019, 12, 1473-1481.	5.8	22
65	Tin(IV)-Tolerant Vapor-Phase Growth and Photophysical Properties of Aligned Cesium Tin Halide Perovskite (CsSnX₃; X = Br, I) Nanowires. ACS Energy Letters, 2019, 4, 1045-1052.	8.8	84
66	A photocleavable surfactant for top-down proteomics. Nature Methods, 2019, 16, 417-420.	9.0	82
67	Triple sum frequency pump-probe spectroscopy of transition metal dichalcogenides. Physical Review B, 2019, 100, .	1.1	7
68	Magnetic skyrmions in nanostructures of non-centrosymmetric materials. APL Materials, 2019, 7, .	2.2	20
69	Comprehensive Characterization of the Recombinant Catalytic Subunit of cAMP-Dependent Protein Kinase by Top-Down Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2561-2570.	1.2	10
70	We Editors Are Authors, Too. ACS Energy Letters, 2019, 4, 249-250.	8.8	2
71	Removing Defects in WSe₂ via Surface Oxidation and Etching to Improve Solar Conversion Performance. ACS Energy Letters, 2019, 4, 102-109.	8.8	18
72	Electrical Detection and Magnetic Imaging of Stabilized Magnetic Skyrmions in Fe_{1â€™}_xCo_xGe (x < 0.1) Microplates. Advanced Functional Materials, 2019, 29, 1805418.	7.8	19

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73	Nanoscale Surface Photovoltage Mapping of 2D Materials and Heterostructures by Illuminated Kelvin Probe Force Microscopy. Journal of Physical Chemistry C, 2018, 122, 13564-13571.	1.5	30
74	Semiconductor Photocatalysis: â€œTell Us the Complete Story!â€• ACS Energy Letters, 2018, 3, 622-623.	8.8	167
75	Hybrid NiCo₂O₄â€NiCo₂S₄ Nanoflakes as Highâ€Performance Anode Materials for Lithiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 2315-2320.	0.7	13
76	Visualization and Studies of Ion-Diffusion Kinetics in Cesium Lead Bromide Perovskite Nanowires. Nano Letters, 2018, 18, 1807-1813.	4.5	136
77	Highly Active Trimetallic NiFeCr Layered Double Hydroxide Electrocatalysts for Oxygen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1703189.	10.2	509
78	Chemical Pressure Stabilization of the Cubic B20 Structure in Skyrmion Hosting Fe_{1â€“x}Co_xGe Alloys. Chemistry of Materials, 2018, 30, 1146-1154.	3.2	21
79	Continuousâ€Wave Lasing in Cesium Lead Bromide Perovskite Nanowires. Advanced Optical Materials, 2018, 6, 1700982.	3.6	161
80	Crystallographic Facet Dependence of the Hydrogen Evolution Reaction on CoPS: Theory and Experiments. ACS Catalysis, 2018, 8, 1143-1152.	5.5	71
81	Energy Research Outlook. What to Look for in 2018. ACS Energy Letters, 2018, 3, 261-263.	8.8	9
82	14.1% Efficient Monolithically Integrated Solar Flow Battery. CheM, 2018, 4, 2644-2657.	5.8	79
83	What Else Can Photoelectrochemical Solar Energy Conversion Do Besides Water Splitting and CO₂ Reduction?. ACS Energy Letters, 2018, 3, 2610-2612.	8.8	29
84	Skyrmion Lattice Topological Hall Effect near Room Temperature. Scientific Reports, 2018, 8, 15510.	1.6	25
85	Chemical Vapor Deposition Growth of Bernal-Stacked Bilayer Graphene by Edge-Selective Etching with H₂O. Chemistry of Materials, 2018, 30, 7852-7859.	3.2	17
86	Multicolor Heterostructures of Two-Dimensional Layered Halide Perovskites that Show Interlayer Energy Transfer. Journal of the American Chemical Society, 2018, 140, 15675-15683.	6.6	95
87	Controllable Growth and Formation Mechanisms of Dislocated WS₂ Spirals. Nano Letters, 2018, 18, 3885-3892.	4.5	88
88	Improving Electrocatalysts for Oxygen Evolution Using Ni_xFe_{3â€“x}O₄/Ni Hybrid Nanostructures Formed by Solvothermal Synthesis. ACS Energy Letters, 2018, 3, 1698-1707.	8.8	132
89	Chemically Derived Kirigami of WSe₂. Journal of the American Chemical Society, 2018, 140, 10980-10987.	6.6	33
90	Electrochemical Oxidation of 5-Hydroxymethylfurfural with NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts. ACS Catalysis, 2018, 8, 5533-5541.	5.5	340

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91	Advanced 3D Current Collectors for Lithiumâ€Based Batteries. Advanced Materials, 2018, 30, e1802014.	11.1	218
92	Surface Passivation of Bismuth-Based Perovskite Variant Quantum Dots To Achieve Efficient Blue Emission. Nano Letters, 2018, 18, 6076-6083.	4.5	157
93	Direct Synthesis and Anion Exchange of Noncarbonate-Intercalated NiFe-Layered Double Hydroxides and the Influence on Electrocatalysis. Chemistry of Materials, 2018, 30, 4321-4330.	3.2	123
94	Allâ€Inorganic Bismuthâ€Based Perovskite Quantum Dots with Bright Blue Photoluminescence and Excellent Stability. Advanced Functional Materials, 2018, 28, 1704446.	7.8	375
95	Simple method for optimization of classical electron magnetic circular dichroism measurements: The role of structure factor and extinction distances. Physical Review Materials, 2018, 2, .	0.9	2
96	Single-crystal microplates of two-dimensional organicâ€“inorganic lead halide layered perovskites for optoelectronics. Nano Research, 2017, 10, 2117-2129.	5.8	109
97	Amorphous Cobaltâ€“Iron Hydroxide Nanosheet Electrocatalyst for Efficient Electrochemical and Photoâ€Electrochemical Oxygen Evolution. Advanced Functional Materials, 2017, 27, 1603904.	7.8	260
98	Complex and Noncentrosymmetric Stacking of Layered Metal Dichalcogenide Materials Created by Screw Dislocations. Journal of the American Chemical Society, 2017, 139, 3496-3504.	6.6	81
99	Top-Down Proteomics of Large Proteins up to 223 kDa Enabled by Serial Size Exclusion Chromatography Strategy. Analytical Chemistry, 2017, 89, 5467-5475.	3.2	108
100	Synergistic Phase and Disorder Engineering in 1Tâ€MoSe₂ Nanosheets for Enhanced Hydrogenâ€Evolution Reaction. Advanced Materials, 2017, 29, 1700311.	11.1	411
101	Stabilization of the Metastable Lead Iodide Perovskite Phase via Surface Functionalization. Nano Letters, 2017, 17, 4405-4414.	4.5	204
102	Basal-Plane Ligand Functionalization on Semiconducting 2H-MoS₂ Monolayers. ACS Applied Materials & Interfaces, 2017, 9, 12734-12742.	4.0	112
103	Coupling functionalized cobalt ferrite nanoparticle enrichment with online LC/MS/MS for top-down phosphoproteomics. Chemical Science, 2017, 8, 4306-4311.	3.7	34
104	Nitrogen-Doped Hollow Carbon Nanospheres for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 14180-14186.	4.0	97
105	Significantly Increased Raman Enhancement on MoX₂ (X = S, Se) Monolayers upon Phase Transition. Advanced Functional Materials, 2017, 27, 1606694.	7.8	158
106	Global Analysis of Perovskite Photophysics Reveals Importance of Geminate Pathways. Journal of Physical Chemistry C, 2017, 121, 1062-1071.	1.5	22
107	Vapor-Phase Epitaxial Growth of Aligned Nanowire Networks of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, I). Nano Letters, 2017, 17, 460-466.	4.5	255
108	Selective Chemical Vapor Deposition Growth of Cubic FeGe Nanowires That Support Stabilized Magnetic Skyrmions. Nano Letters, 2017, 17, 508-514.	4.5	29

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109	Two-dimensional lithium diffusion behavior and probable hybrid phase transformation kinetics in olivine lithium iron phosphate. Nature Communications, 2017, 8, 1194.	5.8	85
110	Lowâ€Temperature Moltenâ€Salt Production of Silicon Nanowires by the Electrochemical Reduction of CaSiO₃. Angewandte Chemie, 2017, 129, 14645-14649.	1.6	71
111	Lowâ€Temperature Moltenâ€Salt Production of Silicon Nanowires by the Electrochemical Reduction of CaSiO₃. Angewandte Chemie - International Edition, 2017, 56, 14453-14457.	7.2	81
112	High Areal Capacity and Lithium Utilization in Anodes Made of Covalently Connected Graphite Microtubes. Advanced Materials, 2017, 29, 1700783.	11.1	148
113	Direct Vapor Growth of Perovskite CsPbBr₃ Nanoplate Electroluminescence Devices. ACS Nano, 2017, 11, 9869-9876.	7.3	117
114	Single-Crystal Thin Films of Cesium Lead Bromide Perovskite Epitaxially Grown on Metal Oxide Perovskite (SrTiO₃). Journal of the American Chemical Society, 2017, 139, 13525-13532.	6.6	209
115	Selective Stabilization and Photophysical Properties of Metastable Perovskite Polymorphs of CsPbI₃ in Thin Films. Chemistry of Materials, 2017, 29, 8385-8394.	3.2	170
116	Solution Growth of Screw Dislocation Driven Î±-GaOOH Nanorod Arrays and Their Conversion to Porous ZnGa₂O₄ Nanotubes. Chemistry of Materials, 2017, 29, 7278-7287.	3.2	19
117	Air-Stable Porous Fe₂N Encapsulated in Carbon Microboxes with High Volumetric Lithium Storage Capacity and a Long Cycle Life. Nano Letters, 2017, 17, 5740-5746.	4.5	132
118	Are Metal Chalcogenides, Nitrides, and Phosphides Oxygen Evolution Catalysts or Bifunctional Catalysts?. ACS Energy Letters, 2017, 2, 1937-1938.	8.8	894
119	Topological spin dynamics in cubic FeGe near room temperature. Journal of Applied Physics, 2017, 122, .	1.1	16
120	Atom-Thick Interlayer Made of CVD-Grown Graphene Film on Separator for Advanced Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 43696-43703.	4.0	79
121	Two-Dimensional Lead Halide Perovskites Templated by a Conjugated Asymmetric Diammonium. Inorganic Chemistry, 2017, 56, 14991-14998.	1.9	56
122	Tuning Mixed Nickel Iron Phosphosulfide Nanosheet Electrocatalysts for Enhanced Hydrogen and Oxygen Evolution. ACS Catalysis, 2017, 7, 8549-8557.	5.5	268
123	Organic Cations Might Not Be Essential to the Remarkable Properties of Band Edge Carriers in Lead Halide Perovskites. Advanced Materials, 2017, 29, 1603072.	11.1	166
124	Glass-like thermal conductivity in nanostructures of a complex anisotropic crystal. Physical Review B, 2017, 96, .	1.1	10
125	Peptide tessellation yields micrometre-scale collagen triple helices. Nature Chemistry, 2016, 8, 1008-1014.	6.6	75
126	Layer-Controlled Chemical Vapor Deposition Growth of MoS₂ Vertical Heterostructures via van der Waals Epitaxy. ACS Nano, 2016, 10, 7039-7046.	7.3	122

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127	A Family of Photolabile Nitroveratryl-Based Surfactants That Self-Assemble into Photodegradable Supramolecular Structures. Langmuir, 2016, 32, 3963-3969.	1.6	10
128	Synthesis of Molybdenum Disulfide Nanowire Arrays Using a Block Copolymer Template. Chemistry of Materials, 2016, 28, 4017-4023.	3.2	28
129	A p-Si/NiCoSe_x core/shell nanopillar array photocathode for enhanced photoelectrochemical hydrogen production. Energy and Environmental Science, 2016, 9, 3113-3119.	15.6	162
130	Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Liâ€“S Batteries. Advanced Materials, 2016, 28, 9094-9102.	11.1	184
131	The Origin of Improved Electrical Doubleâ€Layer Capacitance by Inclusion of Topological Defects and Dopants in Graphene for Supercapacitors. Angewandte Chemie - International Edition, 2016, 55, 13822-13827.	7.2	161
132	The Origin of Improved Electrical Doubleâ€Layer Capacitance by Inclusion of Topological Defects and Dopants in Graphene for Supercapacitors. Angewandte Chemie, 2016, 128, 14026-14031.	1.6	13
133	Screening in crystalline liquids protects energetic carriers in hybrid perovskites. Science, 2016, 353, 1409-1413.	6.0	655
134	Carrier Decay Properties of Mixed Cation Formamidiniumâ€“Methylammonium Lead Iodide Perovskite [HC(NH2)2]1â€“x[CH3NH3]xPbI3 Nanorods. Journal of Physical Chemistry Letters, 2016, 7, 5036-5043.	2.1	61
135	Integrated Photoelectrochemical Solar Energy Conversion and Organic Redox Flow Battery Devices. Angewandte Chemie, 2016, 128, 13298-13302.	1.6	15
136	Integrated Photoelectrochemical Solar Energy Conversion and Organic Redox Flow Battery Devices. Angewandte Chemie - International Edition, 2016, 55, 13104-13108.	7.2	98
137	Broad Wavelength Tunable Robust Lasing from Single-Crystal Nanowires of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, I). ACS Nano, 2016, 10, 7963-7972.	7.3	507
138	Photocurrent Mapping in Single-Crystal Methylammonium Lead Iodide Perovskite Nanostructures. Nano Letters, 2016, 16, 7710-7717.	4.5	56
139	Efficient Electrocatalytic and Photoelectrochemical Hydrogen Generation Using MoS2 and Related Compounds. CheM, 2016, 1, 699-726.	5.8	462
140	Carbon Nanostructures: Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Liâ€“S Batteries (Adv. Mater. 41/2016). Advanced Materials, 2016, 28, 9016-9016.	11.1	5
141	Contributions of Phase, Sulfur Vacancies, and Edges to the Hydrogen Evolution Reaction Catalytic Activity of Porous Molybdenum Disulfide Nanosheets. Journal of the American Chemical Society, 2016, 138, 7965-7972.	6.6	1,055
142	Color-Pure Violet-Light-Emitting Diodes Based on Layered Lead Halide Perovskite Nanoplates. ACS Nano, 2016, 10, 6897-6904.	7.3	378
143	Origins of Large Voltage Hysteresis in High-Energy-Density Metal Fluoride Lithium-Ion Battery Conversion Electrodes. Journal of the American Chemical Society, 2016, 138, 2838-2848.	6.6	212
144	Nanowire Lasers of Formamidinium Lead Halide Perovskites and Their Stabilized Alloys with Improved Stability. Nano Letters, 2016, 16, 1000-1008.	4.5	391

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145	Beat the heat. Nature Physics, 2016, 12, 25-26.	6.5	3
146	Designing Efficient Solarâ€Driven Hydrogen Evolution Photocathodes Using Semitransparent MoQ_xCl_y (Q = S, Se) Catalysts on Si Micropyramids. Advanced Materials, 2015, 27, 6511-6518.	11.1	93
147	Amorphous MoS_xCl_y electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. Energy and Environmental Science, 2015, 8, 862-868.	15.6	183
148	Specific Enrichment of Phosphoproteins Using Functionalized Multivalent Nanoparticles. Journal of the American Chemical Society, 2015, 137, 2432-2435.	6.6	61
149	Hydrothermal Continuous Flow Synthesis and Exfoliation of NiCo Layered Double Hydroxide Nanosheets for Enhanced Oxygen Evolution Catalysis. Nano Letters, 2015, 15, 1421-1427.	4.5	933
150	Porous Two-Dimensional Nanosheets Converted from Layered Double Hydroxides and Their Applications in Electrocatalytic Water Splitting. Chemistry of Materials, 2015, 27, 5702-5711.	3.2	291
151	Electrical probing of field-driven cascading quantized transitions of skyrmion cluster states in MnSi nanowires. Nature Communications, 2015, 6, 7637.	5.8	83
152	Solution Growth of Single Crystal Methylammonium Lead Halide Perovskite Nanostructures for Optoelectronic and Photovoltaic Applications. Journal of the American Chemical Society, 2015, 137, 5810-5818.	6.6	368
153	Twisting phonons in complex crystals with quasi-one-dimensional substructures. Nature Communications, 2015, 6, 6723.	5.8	75
154	Visualization of electrochemically driven solid-state phase transformations using operando hard X-ray spectro-imaging. Nature Communications, 2015, 6, 6883.	5.8	80
155	Controlled Synthesis of Layered Double Hydroxide Nanoplates Driven by Screw Dislocations. Nano Letters, 2015, 15, 3403-3409.	4.5	97
156	Three Dimensional Liquid Chromatography Coupling Ion Exchange Chromatography/Hydrophobic Interaction Chromatography/Reverse Phase Chromatography for Effective Protein Separation in Top-Down Proteomics. Analytical Chemistry, 2015, 87, 5363-5371.	3.2	64
157	Direct Chemical Vapor Deposition Synthesis of Phase-Pure Iron Pyrite (FeS₂) Thin Films. Chemistry of Materials, 2015, 27, 3108-3114.	3.2	85
158	Lead halide perovskite nanowire lasers with low lasing thresholds and high quality factors. Nature Materials, 2015, 14, 636-642.	13.3	2,392
159	Current-driven dynamics of skyrmions stabilized in MnSi nanowires revealed by topological Hall effect. Nature Communications, 2015, 6, 8217.	5.8	124
160	Synthesis and characterization of barium silicide (BaSi₂) nanowire arrays for potential solar applications. Nanoscale, 2015, 7, 17450-17456.	2.8	23
161	Efficient hydrogen evolution catalysis using ternary pyrite-type cobalt phosphosulphide. Nature Materials, 2015, 14, 1245-1251.	13.3	1,162
162	High-Performance Electrocatalysis for Hydrogen Evolution Reaction Using Se-Doped Pyrite-Phase Nickel Diphosphide Nanostructures. ACS Catalysis, 2015, 5, 6355-6361.	5.5	258

#	Article	IF	Citations
163	Measurement of Ultrafast Excitonic Dynamics of Few-Layer MoS₂ Using State-Selective Coherent Multidimensional Spectroscopy. ACS Nano, 2015, 9, 12146-12157.	7.3	33
164	Operando Analysis of NiFe and Fe Oxyhydroxide Electrocatalysts for Water Oxidation: Detection of Fe⁴⁺ by MÃ¶ssbauer Spectroscopy. Journal of the American Chemical Society, 2015, 137, 15090-15093.	6.6	684
165	A robust hydrogen evolution catalyst based on crystalline nickel phosphide nanoflakes on three-dimensional graphene/nickel foam: high performance for electrocatalytic hydrogen production from pH 0â€“14. Journal of Materials Chemistry A, 2015, 3, 1941-1946.	5.2	138
166	Rapid control of phase growth by nanoparticles. Nature Communications, 2014, 5, 3879.	5.8	116
167	Growth of Metal Silicide Nanowires and Their Spintronic and Renewable Energy Applications. RSC Smart Materials, 2014, , 312-362.	0.1	2
168	Highly Stable Skyrmion State in Helimagnetic MnSi Nanowires. Nano Letters, 2014, 14, 2026-2032.	4.5	94
169	Approaching the Minimum Thermal Conductivity in Rheniumâ€Substituted Higher Manganese Silicides. Advanced Energy Materials, 2014, 4, 1400452.	10.2	74
170	Efficient Photoelectrochemical Hydrogen Generation Using Heterostructures of Si and Chemically Exfoliated Metallic MoS₂. Journal of the American Chemical Society, 2014, 136, 8504-8507.	6.6	379
171	High-purity iron pyrite (FeS₂) nanowires as high-capacity nanostructured cathodes for lithium-ion batteries. Nanoscale, 2014, 6, 2112-2118.	2.8	149
172	Gated Hall Effect of Nanoplate Devices Reveals Surface-State-Induced Surface Inversion in Iron Pyrite Semiconductor. Nano Letters, 2014, 14, 6754-6760.	4.5	38
173	Ionization of High-Density Deep Donor Defect States Explains the Low Photovoltage of Iron Pyrite Single Crystals. Journal of the American Chemical Society, 2014, 136, 17163-17179.	6.6	95
174	Facile and scalable synthesis of Ti₅Si₃nanoparticles in molten salts for metal-matrix nanocomposites. Chemical Communications, 2014, 50, 1454-1457.	2.2	26
175	Thermoelectric Properties of Undoped High Purity Higher Manganese Silicides Grown by Chemical Vapor Transport. Chemistry of Materials, 2014, 26, 5097-5104.	3.2	48
176	Earth-abundant inorganic electrocatalysts and their nanostructures for energy conversion applications. Energy and Environmental Science, 2014, 7, 3519-3542.	15.6	1,151
177	Highly active hydrogen evolution catalysis from metallic WS₂ nanosheets. Energy and Environmental Science, 2014, 7, 2608-2613.	15.6	660
178	Earth-Abundant Metal Pyrites (FeS₂, CoS₂, NiS₂, and Their Alloys) for Highly Efficient Hydrogen Evolution and Polysulfide Reduction Electrocatalysis. Journal of Physical Chemistry C, 2014, 118, 21347-21356.	1.5	548
179	Effective Protein Separation by Coupling Hydrophobic Interaction and Reverse Phase Chromatography for Top-down Proteomics. Analytical Chemistry, 2014, 86, 7899-7906.	3.2	52
180	Vertical Heterostructures of Layered Metal Chalcogenides by van der Waals Epitaxy. Nano Letters, 2014, 14, 3047-3054.	4.5	135

#	Article	IF	Citations
181	High-Performance Electrocatalysis Using Metallic Cobalt Pyrite (CoS₂) Micro- and Nanostructures. Journal of the American Chemical Society, 2014, 136, 10053-10061.	6.6	1,211
182	Observation of the Magnetic Skyrmion Lattice in a MnSi Nanowire by Lorentz TEM. Nano Letters, 2013, 13, 3755-3759.	4.5	110
183	Formation of Stacking Faults and the Screw Dislocation-Driven Growth: A Case Study of Aluminum Nitride Nanowires. ACS Nano, 2013, 7, 11369-11378.	7.3	44
184	Ultrasonic-Assisted Synthesis of Surface-Clean TiB₂ Nanoparticles and Their Improved Dispersion and Capture in Al-Matrix Nanocomposites. ACS Applied Materials & Interfaces, 2013, 5, 8813-8819.	4.0	48
185	Three-Dimensional Mesoscale Heterostructures of ZnO Nanowire Arrays Epitaxially Grown on CuGaO₂ Nanoplates as Individual Diodes. ACS Nano, 2013, 7, 8224-8232.	7.3	38
186	Influence of Hole-Sequestering Ligands on the Photostability of CdSe Quantum Dots. Journal of Physical Chemistry C, 2013, 117, 313-320.	1.5	29
187	Quantum dot nanoscale heterostructures for solar energy conversion. Chemical Society Reviews, 2013, 42, 2963-2985.	18.7	204
188	Earth-Abundant Cobalt Pyrite (CoS₂) Thin Film on Glass as a Robust, High-Performance Counter Electrode for Quantum Dot-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 1843-1849.	2.1	197
189	Facile post-growth doping of nanostructured hematite photoanodes for enhanced photoelectrochemical water oxidation. Energy and Environmental Science, 2013, 6, 500-512.	15.6	220
190	A General Method To Measure the Hall Effect in Nanowires: Examples of FeS₂ and MnSi. Nano Letters, 2013, 13, 2704-2709.	4.5	37
191	Enhanced Hydrogen Evolution Catalysis from Chemically Exfoliated Metallic MoS₂ Nanosheets. Journal of the American Chemical Society, 2013, 135, 10274-10277.	6.6	3,022
192	Vapor Phase Conversion Synthesis of Higher Manganese Silicide (MnSi_{1.75}) Nanowire Arrays for Thermoelectric Applications. Chemistry of Materials, 2013, 25, 632-638.	3.2	35
193	Screw Dislocation Driven Growth of Nanomaterials. Accounts of Chemical Research, 2013, 46, 1616-1626.	7.6	275
194	Synthesis, Characterization, and Variable Range Hopping Transport of Pyrite (FeS₂) Nanorods, Nanobelts, and Nanoplates. ACS Nano, 2013, 7, 1731-1739.	7.3	116
195	Growth of Nanomaterials by Screw Dislocation. , 2013, , 639-664.		2
196	Large-scale solution synthesis of Î±-AlF3Â·3H2O nanorods under low supersaturation conditions and their conversion to porous Î²-AlF3 nanorods. Journal of Materials Chemistry, 2012, 22, 20991.	6.7	9
197	Synthesis and Properties of Semiconducting Iron Pyrite (FeS₂) Nanowires. Nano Letters, 2012, 12, 1977-1982.	4.5	164
198	Multiresonant Multidimensional Spectroscopy of Surface-Trapped Excitons in PbSe Quantum Dots. Journal of Physical Chemistry Letters, 2012, 3, 2707-2712.	2.1	12

#	Article	IF	Citations
199	Spectral Isolation and Measurement of Surface-Trapped State Multidimensional Nonlinear Susceptibility in Colloidal Quantum Dots. Journal of Physical Chemistry C, 2012, 116, 5546-5553.	1.5	12
200	Pressure-Induced Structural Transformations of ZnO Nanowires Probed by X-ray Diffraction. Journal of Physical Chemistry C, 2012, 116, 2102-2107.	1.5	30
201	High-Capacity Lithium-Ion Battery Conversion Cathodes Based on Iron Fluoride Nanowires and Insights into the Conversion Mechanism. Nano Letters, 2012, 12, 6030-6037.	4.5	225
202	Facile Solution Synthesis of Î±-FeF₃Â·3H₂O Nanowires and Their Conversion to Î±-Fe₂O₃ Nanowires for Photoelectrochemical Application. Nano Letters, 2012, 12, 724-731.	4.5	198
203	Self-cleaning, broadband and quasi-omnidirectional antireflective structures based on mesocrystalline rutile TiO2 nanorod arrays. Energy and Environmental Science, 2012, 5, 7575.	15.6	122
204	Epitaxial Heterostructures of Lead Selenide Quantum Dots on Hematite Nanowires. Journal of Physical Chemistry Letters, 2012, 3, 1649-1656.	2.1	18
205	Facile and mild solution synthesis of Cu₂O nanowires and nanotubes driven by screw dislocations. Chemical Communications, 2012, 48, 1174-1176.	2.2	90
206	The Solution Growth of Copper Nanowires and Nanotubes is Driven by Screw Dislocations. Nano Letters, 2012, 12, 234-239.	4.5	131
207	Dislocation-Driven CdS and CdSe Nanowire Growth. ACS Nano, 2012, 6, 4461-4468.	7.3	58
208	Multiresonant Coherent Multidimensional Electronic Spectroscopy of Colloidal PbSe Quantum Dots. Journal of Physical Chemistry C, 2011, 115, 22833-22844.	1.5	19
209	Rational Solution Growth of Î±-FeOOH Nanowires Driven by Screw Dislocations and Their Conversion to Î±-Fe₂O₃ Nanowires. Journal of the American Chemical Society, 2011, 133, 8408-8411.	6.6	103
210	Nanostructured silicon for high capacity lithium battery anodes. Energy and Environmental Science, 2011, 4, 56-72.	15.6	1,190
211	Synthesis and Characterization of Manganese-Rich Silicide (Î±-Mn₅Si₃,) Tj ETQq1 1 0.784314 rgBT /Overloc 3848-3853.	3.2	30
212	Improved Synthesis and Electrical Properties of Si-Doped Î±-Fe₂O₃ Nanowires. Journal of Physical Chemistry C, 2011, 115, 12388-12395.	1.5	86
213	Spontaneous Growth and Phase Transformation of Highly Conductive Nickel Germanide Nanowires. ACS Nano, 2011, 5, 5006-5014.	7.3	29
214	Spin Polarization Measurement of Homogeneously Doped Fe_{1â€“x}Co_xSi Nanowires by Andreev Reflection Spectroscopy. Nano Letters, 2011, 11, 4431-4437.	4.5	33
215	Screw Dislocation-Driven Growth of Two-Dimensional Nanoplates. Nano Letters, 2011, 11, 4449-4455.	4.5	173
216	Enhancement of the thermoelectric properties in nanoscale and nanostructured materials. Journal of Materials Chemistry, 2011, 21, 4037-4055.	6.7	333

#	Article	IF	Citations
217	Mechanistic Investigation of the Growth of Fe_{1â^'x}Co_xSi (0 â‰) Tj ETQq1 1 0.784314 rgBT /Ov	7.3	28
218	Screw Dislocation-Driven Epitaxial Solution Growth of ZnO Nanowires Seeded by Dislocations in GaN Substrates. Nano Letters, 2010, 10, 3459-3463.	4.5	140
219	Signature of Helimagnetic Ordering in Single-Crystal MnSi Nanowires. Nano Letters, 2010, 10, 1605-1610.	4.5	76
220	A New Twist on Nanowire Formation: Screw-Dislocation-Driven Growth of Nanowires and Nanotubes. Journal of Physical Chemistry Letters, 2010, 1, 1472-1480.	2.1	136
221	Synthesis and applications of metal silicidenanowires. Journal of Materials Chemistry, 2010, 20, 223-235.	6.7	194
222	Epitaxially-hyperbranched FeSinanowires exhibiting merohedral twinning. Journal of Materials Chemistry, 2010, 20, 1375-1382.	6.7	40
223	Mechanism and Kinetics of Spontaneous Nanotube Growth Driven by Screw Dislocations. Science, 2010, 328, 476-480.	6.0	271
224	Synthesis of mesoporous Si1â^'xGexO2 (0.10 â‰xâ‰ 0.31) using a nonionic block copolymer template. Journal of Materials Chemistry, 2010, 20, 8389.	6.7	6
225	Assembly of Nanocrystal Arrays by Blockâ€Copolymerâ€Directed Nucleation. Angewandte Chemie - International Edition, 2009, 48, 2135-2139.	7.2	17
226	Formation of PbS Nanowire Pine Trees Driven by Screw Dislocations. Journal of the American Chemical Society, 2009, 131, 16461-16471.	6.6	83
227	Epitaxial growth of hierarchical PbS nanowires. Journal of Materials Chemistry, 2009, 19, 934.	6.7	59
228	Potential applications of hierarchical branching nanowires in solar energy conversion. Energy and Environmental Science, 2009, 2, 1050.	15.6	339
229	Mg2Si nanocomposite converted from diatomaceous earth as a potential thermoelectric nanomaterial. Journal of Solid State Chemistry, 2008, 181, 1565-1570.	1.4	19
230	Higher Manganese Silicide Nanowires of Nowotny Chimney Ladder Phase. Journal of the American Chemical Society, 2008, 130, 16086-16094.	6.6	144
231	Chemical Synthesis and Magnetotransport of Magnetic Semiconducting Fe_{1â^'x}Co_xSi Alloy Nanowires. Nano Letters, 2008, 8, 810-815.	4.5	68
232	Dislocation-Driven Nanowire Growth and Eshelby Twist. Science, 2008, 320, 1060-1063.	6.0	490
233	Single-Crystal Semiconducting Chromium Disilicide Nanowires Synthesized via Chemical Vapor Transport. Chemistry of Materials, 2007, 19, 3238-3243.	3.2	70
234	Synthesis and properties of single-crystal Î²3-Ni3Si nanowires. Applied Physics Letters, 2007, 90, 173122.	1.5	38

#	Article	IF	Citations
235	Ultralong Single-Crystal Metallic Ni2Si Nanowires with Low Resistivity. Nano Letters, 2007, 7, 965-969.	4.5	134
236	Determination of Transport Properties in Chromium Disilicide Nanowires via Combined Thermoelectric and Structural Characterizations. Nano Letters, 2007, 7, 1649-1654.	4.5	131
237	Photodetector Arrays Directly Assembled onto Polymer Substrates from Aqueous Solution. Journal of the American Chemical Society, 2007, 129, 14296-14302.	6.6	50
238	Ferromagnetic Semiconducting EuO Nanorods. Advanced Materials, 2007, 19, 2677-2681.	11.1	42
239	Biomimetic Assembly of Zinc Oxide Nanorods onto Flexible Polymers. Journal of the American Chemical Society, 2007, 129, 13776-13777.	6.6	59
240	Synthesis and Properties of Single-Crystal FeSi Nanowires. Nano Letters, 2006, 6, 1617-1621.	4.5	120
241	Metallic Single-Crystal CoSi Nanowires via Chemical Vapor Deposition of Single-Source Precursor. Journal of Physical Chemistry B, 2006, 110, 18142-18146.	1.2	91
242	Monotopic binding modes for ditopic ligands: synthesis and characterization of W6S8L6 (L=bis(diphenylphosphino)ethane, 4,4â€²-bipyridine) cluster compounds. Comptes Rendus Chimie, 2005, 8, 1779-1788.	0.2	3
243	Scalable Interconnection and Integration of Nanowire Devices without Registration. Nano Letters, 2004, 4, 915-919.	4.5	337
244	Nanolithography Using Hierarchically Assembled Nanowire Masks. Nano Letters, 2003, 3, 951-954.	4.5	151
245	The Deanâ^'Evans Relation in31P NMR Spectroscopy and Its Application to the Chemistry of Octahedral Tungsten Sulfide Clusters. Journal of the American Chemical Society, 2002, 124, 9229-9240.	6.6	10
246	Synthesis, characterization and properties of Mo6S8(4-tert-butylpyridine)6 and related M6S8L6 cluster complexes (M = Mo, W). Dalton Transactions RSC, 2002, , 3096.	2.3	16
247	Novel octahedral tungsten sulfidocyanide cluster anion [W6S8(CN)6]6â€“. Chemical Communications, 2001, , 1586-1587.	2.2	14
248	Synthesis, Characterization, and Ligand Exchange Studies of W6S8L6Cluster Compounds. Inorganic Chemistry, 2001, 40, 2666-2674.	1.9	23
249	Synthesis and Characterization of Oxidized W6S8L6Clusters. Inorganic Chemistry, 2001, 40, 2660-2665.	1.9	17
250	Ligand Substitution Reactions of W6S8L6with Tricyclohexylphosphine (L = 4-tert-Butylpyridine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 Complexes. Inorganic Chemistry, 2000, 39, 2747-2757.	1.9	28
251	An Improved High Yield Synthesis Procedure and Reactivity of W6S8(4-tert-butylpyridine)6. Inorganic Chemistry, 1999, 38, 828-830.	1.9	25