

Tian-You Zhai

List of Publications by Year in descending order

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469
papers

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citations

1606

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517
all docs

517
docs citations

517
times ranked

33211
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnS nanostructures: From synthesis to applications. Progress in Materials Science, 2011, 56, 175-287.	16.0	1,134
2	Reviving Lithium-Metal Anodes for Next-Generation High-Energy Batteries. Advanced Materials, 2017, 29, 1700007.	11.1	908
3	Single-Crystalline ZnS Nanobelts as Ultraviolet-Light Sensors. Advanced Materials, 2009, 21, 2034-2039.	11.1	537
4	Ni-Doped Graphene/SnO ₂ Sandwich Paper for High-Performance Lithium-Ion Batteries. Advanced Functional Materials, 2012, 22, 2682-2690.	7.8	506
5	Ultrathin and Porous Ni ₃ S ₂ /CoNi ₂ S ₄ 3D-Network Structure for Superhigh Energy Density Asymmetric Supercapacitors. Advanced Energy Materials, 2017, 7, 1700983.	10.2	498
6	A Comprehensive Review of One-Dimensional Metal-Oxide Nanostructure Photodetectors. Sensors, 2009, 9, 6504-6529.	2.1	491
7	Ultrathin SnSe ₂ Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors. Advanced Materials, 2015, 27, 8035-8041.	11.1	460
8	Highly Emissive and Color-Tunable CuInS ₂ -Based Colloidal Semiconductor Nanocrystals: Off-Stoichiometry Effects and Improved Electroluminescence Performance. Advanced Functional Materials, 2012, 22, 2081-2088.	7.8	449
9	Distinctive defects engineering in graphitic carbon nitride for greatly extended visible light photocatalytic hydrogen evolution. Nano Energy, 2018, 44, 73-81.	8.2	386
10	All-Inorganic Bismuth-Based Perovskite Quantum Dots with Bright Blue Photoluminescence and Excellent Stability. Advanced Functional Materials, 2018, 28, 1704446.	7.8	375
11	Centimeter-Long V ₂ O ₅ Nanowires: From Synthesis to Field-Emission, Electrochemical, Electrical Transport, and Photoconductive Properties. Advanced Materials, 2010, 22, 2547-2552.	11.1	359
12	One-dimensional inorganic nanostructures: synthesis, field-emission and photodetection. Chemical Society Reviews, 2011, 40, 2986.	18.7	352
13	Single-Crystalline CdS Nanobelts for Excellent Field-Emitters and Ultrahigh Quantum-Efficiency Photodetectors. Advanced Materials, 2010, 22, 3161-3165.	11.1	342
14	Core-shell structured Co ₃ O ₄ @NiCo ₂ O ₄ electrodes grown on flexible carbon fibers with superior electrochemical properties. Nano Energy, 2017, 31, 410-417.	8.2	330
15	One-dimensional CdS nanostructures: synthesis, properties, and applications. Nanoscale, 2010, 2, 168.	2.8	317
16	Recent Developments in One-Dimensional Inorganic Nanostructures for Photodetectors. Advanced Functional Materials, 2010, 20, 4233-4248.	7.8	314
17	ZnO and ZnS Nanostructures: Ultraviolet-Light Emitters, Lasers, and Sensors. Critical Reviews in Solid State and Materials Sciences, 2009, 34, 190-223.	6.8	306
18	Two-dimensional layered nanomaterials for gas-sensing applications. Inorganic Chemistry Frontiers, 2016, 3, 433-451.	3.0	306

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19	Tunneling Diode Based on $\text{WSe}_2/\text{SnS}_2$ Heterostructure Incorporating High Detectivity and Responsivity. <i>Advanced Materials</i> , 2018, 30, 1703286.	11.1	293
20	Fabrication of High-Quality In_2Se_3 Nanowire Arrays toward High-Performance Visible-Light Photodetectors. <i>ACS Nano</i> , 2010, 4, 1596-1602.	7.3	289
21	Large-Size Growth of Ultrathin SnS_2 Nanosheets and High Performance for Phototransistors. <i>Advanced Functional Materials</i> , 2016, 26, 4405-4413.	7.8	279
22	2D Layered Material-Based van der Waals Heterostructures for Optoelectronics. <i>Advanced Functional Materials</i> , 2018, 28, 1706587.	7.8	279
23	Low-Cost Fully Transparent Ultraviolet Photodetectors Based on Electrospun ZnO/SnO_2 Heterojunction Nanofibers. <i>Advanced Materials</i> , 2013, 25, 4625-4630.	11.1	275
24	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021, .	2.2	269
25	Local Charge Distribution Engineered by Schottky Heterojunctions toward Urea Electrolysis. <i>Advanced Energy Materials</i> , 2018, 8, 1801775.	10.2	266
26	Controllable Assembly of WO_3 Nanorods/Nanowires into Hierarchical Nanostructures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23829-23836.	1.2	257
27	Flexible Ultraviolet Photodetectors with Broad Photoresponse Based on Branched ZnS/ZnO Heterostructure Nanofilms. <i>Advanced Materials</i> , 2014, 26, 3088-3093.	11.1	251
28	Ultrahigh-Performance Solar-Blind Photodetectors Based on Individual Single-Crystalline $\text{In}_2\text{Ge}_2\text{O}_7$ Nanobelts. <i>Advanced Materials</i> , 2010, 22, 5145-5149.	11.1	249
29	Emerging in-plane anisotropic two-dimensional materials. <i>Informa-Materially</i> , 2019, 1, 54-73.	8.5	247
30	Doping engineering and functionalization of two-dimensional metal chalcogenides. <i>Nanoscale Horizons</i> , 2019, 4, 26-51.	4.1	238
31	Flexible and high energy density asymmetrical supercapacitors based on core/shell conducting polymer nanowires/manganese dioxide nanoflakes. <i>Nano Energy</i> , 2017, 35, 242-250.	8.2	226
32	Li_3VO_4 : A Promising Insertion Anode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 428-432.	10.2	225
33	Template Deformation-Tailored ZnO Nanorod/Nanowire Arrays: Full Growth Control and Optimization of Field-Emission. <i>Advanced Functional Materials</i> , 2009, 19, 3165-3172.	7.8	224
34	Photonic Potentiation and Electric Habituation in Ultrathin Memristive Synapses Based on Monolayer MoS_2 . <i>Small</i> , 2018, 14, e1800079.	5.2	224
35	ZnO Hollow Spheres with Double-Yolk Egg Structure for High-Performance Photocatalysts and Photodetectors. <i>Advanced Materials</i> , 2012, 24, 3421-3425.	11.1	223
36	An Efficient Way to Assemble ZnS Nanobelts as Ultraviolet-Light Sensors with Enhanced Photocurrent and Stability. <i>Advanced Functional Materials</i> , 2010, 20, 500-508.	7.8	222

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37	2D GeP: An Unexploited Low-Symmetry Semiconductor with Strong In-Plane Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1706771.	11.1	219
38	Electronic and Optoelectronic Applications Based on 2D Novel Anisotropic Transition Metal Dichalcogenides. <i>Advanced Science</i> , 2017, 4, 1700231.	5.6	219
39	High-Performance Blue/Ultraviolet-Light-Sensitive ZnSe Nanobelt Photodetectors. <i>Advanced Materials</i> , 2009, 21, 5016-5021.	11.1	217
40	One-Dimensional CdS Nanostructures: A Promising Candidate for Optoelectronics. <i>Advanced Materials</i> , 2013, 25, 3017-3037.	11.1	212
41	Deep-ultraviolet solar-blind photoconductivity of individual gallium oxide nanobelts. <i>Nanoscale</i> , 2011, 3, 1120.	2.8	210
42	Self-powered photovoltaic photodetector established on lateral monolayer MoS ₂ -WS ₂ heterostructures. <i>Nano Energy</i> , 2018, 51, 45-53.	8.2	209
43	Chemical Vapor Deposition Synthesis of Ultrathin Hexagonal ReSe ₂ Flakes for Anisotropic Raman Property and Optoelectronic Application. <i>Advanced Materials</i> , 2016, 28, 8296-8301.	11.1	206
44	An Autotransferable g-C ₃ N ₄ Li ⁺ -Modulating Layer toward Stable Lithium Anodes. <i>Advanced Materials</i> , 2019, 31, e1900342.	11.1	205
45	Large-Area Bilayer ReS ₂ Film/Multilayer ReS ₂ Flakes Synthesized by Chemical Vapor Deposition for High Performance Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 4551-4560.	7.8	199
46	An Intracellular H ₂ O ₂ -Responsive AIEgen for the Peroxidase-Mediated Selective Imaging and Inhibition of Inflammatory Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3123-3127.	7.2	197
47	Controlled Synthesis of Ultrathin 2D In ₂ S ₃ with Broadband Photoresponse by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2017, 27, 1702448.	7.8	194
48	Recent progress of one-dimensional ZnO nanostructured solar cells. <i>Nano Energy</i> , 2012, 1, 91-106.	8.2	189
49	Large-scale synthesis of single-crystal hexagonal tungsten trioxide nanowires and electrochemical lithium intercalation into the nanocrystals. <i>Journal of Solid State Chemistry</i> , 2007, 180, 98-105.	1.4	186
50	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019, 29, 1904932.	7.8	186
51	Morphology-Dependent Stimulated Emission and Field Emission of Ordered CdS Nanostructure Arrays. <i>ACS Nano</i> , 2009, 3, 949-959.	7.3	185
52	Crystal organometal halide perovskites with promising optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11-27.	2.7	185
53	Vertical heterostructures based on SnSe ₂ /MoS ₂ for high performance photodetectors. <i>2D Materials</i> , 2017, 4, 025048.	2.0	183
54	Van der Waals Coupled Organic Molecules with Monolayer MoS ₂ for Fast Response Photodetectors with Gate-Tunable Responsivity. <i>ACS Nano</i> , 2018, 12, 4062-4073.	7.3	183

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55	A Fully Transparent and Flexible Ultraviolet-Visible Photodetector Based on Controlled Electrospun ZnO/CdO Heterojunction Nanofiber Arrays. <i>Advanced Functional Materials</i> , 2015, 25, 5885-5894.	7.8	181
56	Booming Development of Group IV-VI Semiconductors: Fresh Blood of 2D Family. <i>Advanced Science</i> , 2016, 3, 1600177.	5.6	181
57	Layered phosphorus-like GeP ₅ : a promising anode candidate with high initial coulombic efficiency and large capacity for lithium ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3629-3636.	15.6	179
58	Photophysics in Cs ₃ Cu ₂ X ₅ (X = Cl, Br, or I): Highly Luminescent Self-Trapped Excitons from Local Structure Symmetrization. <i>Chemistry of Materials</i> , 2020, 32, 3462-3468.	3.2	177
59	Schottky Heterojunction Nanosheet Array Achieving High-Current-Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. <i>Advanced Energy Materials</i> , 2021, 11, 2102353.	10.2	177
60	Few-Layered PtS ₂ Phototransistor on h-BN with High Gain. <i>Advanced Functional Materials</i> , 2017, 27, 1701011.	7.8	176
61	2D layered group IIIA metal chalcogenides: synthesis, properties and applications in electronics and optoelectronics. <i>CrystEngComm</i> , 2016, 18, 3968-3984.	1.3	171
62	Electrical Transport and High-Performance Photoconductivity in Individual ZrS ₂ Nanobelts. <i>Advanced Materials</i> , 2010, 22, 4151-4156.	11.1	169
63	High-Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire. <i>Advanced Functional Materials</i> , 2016, 26, 704-712.	7.8	163
64	Antimony-based materials as promising anodes for rechargeable lithium-ion and sodium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2018, 2, 437-455.	3.2	163
65	Highly Anisotropic GeSe Nanosheets for Phototransistors with Ultrahigh Photoresponsivity. <i>Advanced Science</i> , 2018, 5, 1800478.	5.6	163
66	MXene-Silicon Van Der Waals Heterostructures for High-Speed Self-Driven Photodetectors. <i>Advanced Electronic Materials</i> , 2017, 3, 1700165.	2.6	162
67	Ni(OH) ₂ nanosheet @ Fe ₂ O ₃ nanowire hybrid composite arrays for high-performance supercapacitor electrodes. <i>Nano Energy</i> , 2013, 2, 754-763.	8.2	161
68	An Enhanced UV-Visible-NIR and Flexible Photodetector Based on Electrospun ZnO Nanowire Array/PbS Quantum Dots Film Heterostructure. <i>Advanced Science</i> , 2017, 4, 1600316.	5.6	160
69	Cobalt(ii,iii) oxide hollow structures: fabrication, properties and applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 23310.	6.7	156
70	Revealing the conversion mechanism of CuO nanowires during lithiation-delithiation by in situ transmission electron microscopy. <i>Chemical Communications</i> , 2012, 48, 4812.	2.2	153
71	Polystyrene sphere-assisted one-dimensional nanostructure arrays: synthesis and applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 40-56.	6.7	151
72	Reconfigurable two-dimensional optoelectronic devices enabled by local ferroelectric polarization. <i>Nature Communications</i> , 2019, 10, 3331.	5.8	151

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73	Submillimeter 2D Bi ₂ Se ₃ Flakes toward High-Performance Infrared Photodetection at Optical Communication Wavelength. <i>Advanced Functional Materials</i> , 2018, 28, 1802707.	7.8	149
74	PbSe Quantum Dots Sensitized High-Mobility Bi ₂ O ₂ Se Nanosheets for High-Performance and Broadband Photodetection Beyond 2 μm. <i>ACS Nano</i> , 2019, 13, 9028-9037.	7.3	149
75	Single-Crystalline Sb ₂ Se ₃ Nanowires for High-Performance Field Emitters and Photodetectors. <i>Advanced Materials</i> , 2010, 22, 4530-4533.	11.1	147
76	Large-surface-area BN nanosheets and their utilization in polymeric composites with improved thermal and dielectric properties. <i>Nanoscale Research Letters</i> , 2012, 7, 662.	3.1	143
77	Hierarchical micro/nano porous silicon Li-ion battery anodes. <i>Chemical Communications</i> , 2012, 48, 5079.	2.2	142
78	Decorating Perovskite Quantum Dots in TiO ₂ Nanotubes Array for Broadband Response Photodetector. <i>Advanced Functional Materials</i> , 2017, 27, 1703115.	7.8	142
79	Highly In-Plane Anisotropic 2D GeAs ₂ for Polarization-Sensitive Photodetection. <i>Advanced Materials</i> , 2018, 30, e1804541.	11.1	140
80	Two-Dimensional van der Waals Materials with Aligned In-Plane Polarization and Large Piezoelectric Effect for Self-Powered Piezoelectric Sensors. <i>Nano Letters</i> , 2019, 19, 5410-5416.	4.5	132
81	Construction of Longan-like hybrid structures by anchoring nickel hydroxide on yolk-shell polypyrrole for asymmetric supercapacitors. <i>Nano Energy</i> , 2019, 56, 207-215.	8.2	132
82	Broadband convolutional processing using band-alignment-tunable heterostructures. <i>Nature Electronics</i> , 2022, 5, 248-254.	13.1	131
83	CoO octahedral nanocages for high-performance lithium ion batteries. <i>Chemical Communications</i> , 2012, 48, 4878.	2.2	130
84	A High Rate 1.2V Aqueous Sodium-ion Battery Based on All NASICON Structured NaTi ₂ (PO ₄) ₃ and Na ₃ V ₂ (PO ₄) ₃ . <i>Electrochimica Acta</i> , 2016, 196, 470-478.	2.6	130
85	Layer Structured Materials for Advanced Energy Storage and Conversion. <i>Small</i> , 2017, 13, 1701649.	5.2	129
86	Self-Driven WSe ₂ /Bi ₂ O ₂ Se Van der Waals Heterostructure Photodetectors with High Light On/Off Ratio and Fast Response. <i>Advanced Functional Materials</i> , 2021, 31, 2008351.	7.8	129
87	ZnSe nanostructures: Synthesis, properties and applications. <i>Progress in Materials Science</i> , 2016, 83, 472-535.	16.0	128
88	Space-Confining Chemical Vapor Deposition Synthesis of Ultrathin HfS ₂ Flakes for Optoelectronic Application. <i>Advanced Functional Materials</i> , 2017, 27, 1702918.	7.8	122
89	2D Metal Chalcogenides for IR Photodetection. <i>Small</i> , 2019, 15, e1901347.	5.2	121
90	Ultrafast and Sensitive Self-Powered Photodetector Featuring Self-Limited Depletion Region and Fully Depleted Channel with van der Waals Contacts. <i>ACS Nano</i> , 2020, 14, 9098-9106.	7.3	120

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91	Self-stacked Co ₃ O ₄ nanosheets for high-performance lithium ion batteries. <i>Chemical Communications</i> , 2011, 47, 12280.	2.2	119
92	A Multifunctional Peptide- ϵ -Conjugated AIEgen for Efficient and Sequential Targeted Gene Delivery into the Nucleus. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5049-5053.	7.2	119
93	Robust Piezo-Phototronic Effect in Multilayer In_2Se_3 for High-Performance Self-Powered Flexible Photodetectors. <i>ACS Nano</i> , 2019, 13, 7291-7299.	7.3	118
94	Enhancing multiphoton upconversion through interfacial energy transfer in multilayered nanoparticles. <i>Nature Communications</i> , 2020, 11, 1174.	5.8	118
95	Role of outer surface probes for regulating ion gating of nanochannels. <i>Nature Communications</i> , 2018, 9, 40.	5.8	117
96	Strong In-Plane Anisotropies of Optical and Electrical Response in Layered Dimetal Chalcogenide. <i>ACS Nano</i> , 2017, 11, 10264-10272.	7.3	116
97	Characterization, Cathodoluminescence, and Field-Emission Properties of Morphology-Tunable CdS Micro/Nanostructures. <i>Advanced Functional Materials</i> , 2009, 19, 2423-2430.	7.8	114
98	Interlayer Coupling Induced Infrared Response in WS ₂ /MoS ₂ Heterostructures Enhanced by Surface Plasmon Resonance. <i>Advanced Functional Materials</i> , 2018, 28, 1800339.	7.8	114
99	2D Ternary Chalcogenides. <i>Advanced Optical Materials</i> , 2018, 6, 1800058.	3.6	114
100	High performance near-infrared photodetectors based on ultrathin SnS nanobelts grown via physical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2111-2116.	2.7	113
101	Ternary Ta ₂ NiSe ₅ Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , 2016, 26, 8281-8289.	7.8	112
102	Distinct functional elements for outer-surface anti-interference and inner-wall ion gating of nanochannels. <i>Nature Communications</i> , 2018, 9, 4557.	5.8	112
103	Tunable Color Temperatures and Efficient White Emission from Cs ₂ Ag _{1-x} Na _x In _{1-y} Bi _{1-x-y} Double Perovskite Nanocrystals. <i>Small</i> , 2019, 15, e1903496.	11.2	112
104	Band Alignment Engineering in Two-Dimensional Transition Metal Dichalcogenide-Based Heterostructures for Photodetectors. <i>Small Structures</i> , 2021, 2, 2000136.	6.9	112
105	Van der Waals Integration Based on Two-Dimensional Materials for High-Performance Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2103106.	7.8	112
106	Hierarchical CuCo ₂ O ₄ @nickel-cobalt hydroxides core/shell nanoarchitectures for high-performance hybrid supercapacitors. <i>Science Bulletin</i> , 2017, 62, 1122-1131.	4.3	111
107	Modulation of Molecular Spatial Distribution and Chemisorption with Perforated Nanosheets for Ethanol Electro-oxidation. <i>Advanced Materials</i> , 2019, 31, e1900528.	11.1	111
108	Multi-heteroatom self-doped porous carbon derived from swim bladders for large capacitance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15006-15014.	5.2	108

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109	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. <i>Chemical Society Reviews</i> , 2019, 48, 4639-4654.	18.7	108
110	Synthesis of Large-Size 1Tâ^2 ReS_2 (1â^2) Alloy Monolayer with Tunable Bandgap and Carrier Type. <i>Advanced Materials</i> , 2017, 29, 1705015.	11.1	107
111	An anticorrosive zinc metal anode with ultra-long cycle life over one year. <i>Energy and Environmental Science</i> , 2022, 15, 1638-1646.	15.6	107
112	WO_3 nanowires on carbon papers: electronic transport, improved ultraviolet-light photodetectors and excellent field emitters. <i>Journal of Materials Chemistry</i> , 2011, 21, 6525.	6.7	103
113	Ultrathin Non-van der Waals Magnetic Rhombohedral Cr_2S_3 : Space-Confined Chemical Vapor Deposition Synthesis and Raman Scattering Investigation. <i>Advanced Functional Materials</i> , 2019, 29, 1805880.	7.8	103
114	Achieving highly uniform two-dimensional PbI_2 flakes for photodetectors via space confined physical vapor deposition. <i>Science Bulletin</i> , 2017, 62, 1654-1662.	4.3	102
115	Broken-Gap $\text{PtS}_2/\text{WSe}_2$ van der Waals Heterojunction with Ultrahigh Reverse Rectification and Fast Photoresponse. <i>ACS Nano</i> , 2021, 15, 8328-8337.	7.3	102
116	Tube-in-Tube TiO_2 Nanotubes with Porous Walls: Fabrication, Formation Mechanism, and Photocatalytic Properties. <i>Small</i> , 2011, 7, 445-449.	5.2	101
117	2D Nanomaterial Arrays for Electronics and Optoelectronics. <i>Advanced Functional Materials</i> , 2018, 28, 1706559.	7.8	101
118	Additive-mediated intercalation and surface modification of MXenes. <i>Chemical Society Reviews</i> , 2022, 51, 2972-2990.	18.7	101
119	Single-crystal $\text{H}_2\text{V}_3\text{O}_8$ nanowires: a competitive anode with large capacity for aqueous lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 1780-1787.	6.7	100
120	Large-Scale Ultrathin 2D Wide-Bandgap BiOBr Nanoflakes for Gate-Controlled Deep-Ultraviolet Phototransistors. <i>Advanced Materials</i> , 2020, 32, e1908242.	11.1	100
121	Highly In-Plane Anisotropic 2D PdSe_2 for Polarized Photodetection with Orientation Selectivity. <i>Advanced Functional Materials</i> , 2021, 31, 2006774.	7.8	100
122	$\text{Sr}_6\text{Cd}_2\text{Sb}_6\text{O}_7\text{S}_{10}$: Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8078-8081.	7.2	99
123	Two-Dimensional Organic Supramolecule via Hydrogen Bonding and π - π Stacking for Ultrahigh Capacity and Long-Life Aqueous Zinc-Organic Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	99
124	Highly Porous Carbon with Graphene Nanoplatelet Microstructure Derived from Biomass Waste for High-Performance Supercapacitors in Universal Electrolyte. <i>Advanced Sustainable Systems</i> , 2017, 1, 1600011.	2.7	98
125	Bulk synthesis, growth mechanism and properties of highly pure ultrafine boron nitride nanotubes with diameters of sub-10 nm. <i>Nanotechnology</i> , 2011, 22, 145602.	1.3	97
126	Highly reversible sodium storage in a GeP_5/C composite anode with large capacity and low voltage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4413-4420.	5.2	97

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127	Performance-Enhancing Broadband and Flexible Photodetectors Based on Perovskite/ZnO Nanowire Hybrid Structures. <i>Advanced Optical Materials</i> , 2017, 5, 1700206.	3.6	96
128	Stacking-mode confined growth of 2H-MoTe ₂ /MoS ₂ bilayer heterostructures for UV-vis-IR photodetectors. <i>Nano Energy</i> , 2018, 49, 200-208.	8.2	96
129	Hierarchical Ni-Co-S@Ni-W-O core-shell nanosheet arrays on nickel foam for high-performance asymmetric supercapacitors. <i>Nano Research</i> , 2018, 11, 1415-1425.	5.8	96
130	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. <i>Nano Energy</i> , 2020, 71, 104616.	8.2	96
131	Ultrathin 2D GeSe ₂ Rhombic Flakes with High Anisotropy Realized by Van der Waals Epitaxy. <i>Advanced Functional Materials</i> , 2017, 27, 1703858.	7.8	95
132	Structural Determination and Nonlinear Optical Properties of New 1T-Type MoS ₂ Compound. <i>Journal of the American Chemical Society</i> , 2019, 141, 790-793.	6.6	95
133	Silver Nanoparticles Stabilized by Thermoresponsive Microgel Particles: Synthesis and Evidence of an Electron Donor-Acceptor Effect. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2339-2345.	2.0	94
134	Self-Trapped Exciton to Dopant Energy Transfer in Rare Earth Doped Lead-Free Double Perovskite. <i>Advanced Optical Materials</i> , 2019, 7, 1901098.	3.6	94
135	Flexible SnO ₂ hollow nanosphere film based high-performance ultraviolet photodetector. <i>Chemical Communications</i> , 2013, 49, 3739.	2.2	93
136	Chemical Vapor Deposition Growth of High Crystallinity Sb ₂ Se ₃ Nanowire with Strong Anisotropy for Near-Infrared Photodetectors. <i>Small</i> , 2019, 15, e1805307.	5.2	93
137	In-doped Ga ₂ O ₃ nanobelt based photodetector with high sensitivity and wide-range photoresponse. <i>Journal of Materials Chemistry</i> , 2012, 22, 17984.	6.7	92
138	2D Group IVB Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2018, 28, 1803305.	7.8	91
139	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , 2019, 10, 4728.	5.8	91
140	Vacancy-Rich Ni(OH) ₂ Drives the Electrooxidation of Amino N Bonds to Nitrile N Bonds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16974-16981.	7.2	91
141	Strategies on Phase Control in Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2018, 28, 1802473.	7.8	90
142	Liquid-Alloy-Assisted Growth of 2D Ternary Ga ₂ In ₄ S ₉ toward High-Performance UV Photodetection. <i>Advanced Materials</i> , 2019, 31, e1806306.	11.1	90
143	Sodium-Mediated Epitaxial Growth of 2D Ultrathin Sb ₂ Se ₃ Flakes for Broadband Photodetection. <i>Advanced Functional Materials</i> , 2020, 30, 1909849.	7.8	88
144	Nanostructured Materials and Architectures for Advanced Infrared Photodetection. <i>Advanced Materials Technologies</i> , 2017, 2, 1700005.	3.0	87

#	ARTICLE	IF	CITATIONS
145	P ₂ Se ₃ /MoS ₂ Vertical Heterostructures Synthesized by van der Waals Epitaxy for Photoresponse Modulation. <i>Small</i> , 2018, 14, 1702731.	5.2	87
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