

Chun Cheng

List of Publications by Year in descending order

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178
papers

6,525
citations

53794

45
h-index

88630

70
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182
all docs

182
docs citations

182
times ranked

9784
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic performance of TiO ₂ -ZnO hybrid nanostructures. Scientific Reports, 2014, 4, 4181.	3.3	248
2	Growth and Photocatalytic Activity of Dendrite-like ZnO@Ag Heterostructure Nanocrystals. Crystal Growth and Design, 2009, 9, 3278-3285.	3.0	206
3	Synthesis, optimization and applications of ZnO/polymer nanocomposites. Materials Science and Engineering C, 2019, 98, 1210-1240.	7.3	191
4	Giant-Amplitude, High-Work Density Microactuators with Phase Transition Activated Nanolayer Bimorphs. Nano Letters, 2012, 12, 6302-6308.	9.1	158
5	PEDOT:PSS/graphene quantum dots films with enhanced thermoelectric properties via strong interfacial interaction and phase separation. Scientific Reports, 2018, 8, 6441.	3.3	151
6	CeO ₂ Nanostructures Enriched with Oxygen Vacancies for Photocatalytic CO ₂ Reduction. ACS Applied Nano Materials, 2020, 3, 138-148.	5.0	148
7	Comprehensive study of the metal-insulator transition in pulsed laser deposited epitaxial VO ₂ thin films. Journal of Applied Physics, 2013, 113, .	2.5	134
8	Construction of highly efficient Z-scheme ZnxCd1-xS/Au@g-C ₃ N ₄ ternary heterojunction composite for visible-light-driven photocatalytic reduction of CO ₂ to solar fuel. Applied Catalysis B: Environmental, 2021, 282, 119600.	20.2	129
9	Efficiency and stability enhancement of perovskite solar cells by introducing CsPbI ₃ quantum dots as an interface engineering layer. NPG Asia Materials, 2018, 10, 552-561.	7.9	115
10	Intensive Exposure of Functional Rings of a Polymeric Hole-Transporting Material Enables Efficient Perovskite Solar Cells. Advanced Materials, 2018, 30, e1804028.	21.0	104
11	Ultra-long, free-standing, single-crystalline vanadium dioxide micro/nanowires grown by simple thermal evaporation. Applied Physics Letters, 2012, 100, .	3.3	103
12	Universal low-temperature Ohmic contacts for quantum transport in transition metal dichalcogenides. 2D Materials, 2016, 3, 021007.	4.4	102
13	Black phosphorus-based van der Waals heterostructures for mid-infrared light-emission applications. Light: Science and Applications, 2020, 9, 114.	16.6	100
14	Axially Engineered Metal-Insulator Phase Transition by Graded Doping VO ₂ Nanowires. Journal of the American Chemical Society, 2013, 135, 4850-4855.	13.7	96
15	Recent advances in fabrication strategies, phase transition modulation, and advanced applications of vanadium dioxide. Applied Physics Reviews, 2019, 6, .	11.3	93
16	Twin Defect Derived Growth of Atomically Thin MoS ₂ Dendrites. ACS Nano, 2018, 12, 635-643.	14.6	92
17	Nature inspired ZnO/ZnS nanobranh-like composites, decorated with Cu(OH) ₂ clusters for enhanced visible-light photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 253, 379-390.	20.2	90
18	Efficient coupling of a hierarchical V ₂ O ₅ @Ni ₃ S ₂ hybrid nanoarray for pseudocapacitors and hydrogen production. Journal of Materials Chemistry A, 2017, 5, 17954-17962.	10.3	88

#	ARTICLE	IF	CITATIONS
19	Heterogeneous growth mechanism of ZnO nanostructures and the effects of their morphology on optical and photocatalytic properties. <i>CrystEngComm</i> , 2017, 19, 3299-3312.	2.6	86
20	Efficient and Stable Perovskite Solar Cells Prepared in Ambient Air Based on Surface-Modified Perovskite Layer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6546-6553.	3.1	84
21	Freestanding agaric-like molybdenum carbide/graphene/N-doped carbon foam as effective polysulfide anchor and catalyst for high performance lithium sulfur batteries. <i>Energy Storage Materials</i> , 2020, 33, 73-81.	18.0	81
22	Intrinsic valley Hall transport in atomically thin MoS ₂ . <i>Nature Communications</i> , 2019, 10, 611.	12.8	77
23	Powerful, Multifunctional Torsional Micromuscles Activated by Phase Transition. <i>Advanced Materials</i> , 2014, 26, 1746-1750.	21.0	76
24	High-Quality ZnO Nanowire Arrays Directly Fabricated from Photoresists. <i>ACS Nano</i> , 2009, 3, 53-58.	14.6	74
25	Single-electrode triboelectric nanogenerator based on economical graphite coated paper for harvesting waste environmental energy. <i>Nano Energy</i> , 2019, 66, 104141.	16.0	71
26	Polyoxometalate-Derived Hexagonal Molybdenum Nitrides (MXenes) Supported by Boron, Nitrogen Codoped Carbon Nanotubes for Efficient Electrochemical Hydrogen Evolution from Seawater. <i>Advanced Functional Materials</i> , 2019, 29, 1805893.	14.9	69
27	Elastic Properties and Fracture Behaviors of Biaxially Deformed, Polymorphic MoTe ₂ . <i>Nano Letters</i> , 2019, 19, 761-769.	9.1	67
28	Towards Simplifying the Device Structure of High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2000863.	14.9	67
29	Performance Limits of Microactuation with Vanadium Dioxide as a Solid Engine. <i>ACS Nano</i> , 2013, 7, 2266-2272.	14.6	66
30	Hierarchical CoP@Ni ₂ P catalysts for pH-universal hydrogen evolution at high current density. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120350.	20.2	65
31	Heat Transfer across the Interface between Nanoscale Solids and Gas. <i>ACS Nano</i> , 2011, 5, 10102-10107.	14.6	63
32	Low-temperature-processed SnO ₂ -Cl for efficient PbS quantum-dot solar cells via defect passivation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17240-17247.	10.3	63
33	Antisolvent Engineering to Optimize Grain Crystallinity and Hole-Blocking Capability of Perovskite Films for High-Performance Photovoltaics. <i>Advanced Materials</i> , 2021, 33, e2102816.	21.0	61
34	Direct Z-Scheme Cs ₂ O-Bi ₂ O ₃ -ZnO Heterostructures as Efficient Sunlight-Driven Photocatalysts. <i>ACS Omega</i> , 2018, 3, 12260-12269.	3.5	60
35	Synergistic effects of multiple functional ionic liquid-treated PEDOT:PSS and less-ion-defects S-acetylthiocholine chloride-passivated perovskite surface enabling stable and hysteresis-free inverted perovskite solar cells with conversion efficiency over 20%. <i>Nano Energy</i> , 2019, 63, 103866.	16.0	60
36	Surface modification and grafting of carbon fibers: A route to better interface. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2018, 64, 75-101.	4.0	59

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37	Strain-Enhanced Li Storage and Diffusion on the Graphyne as the Anode Material in the Li-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22838-22848.	3.1	58
38	Dense Electron System from Gate-Controlled Surface Metal-Insulator Transition. <i>Nano Letters</i> , 2012, 12, 6272-6277.	9.1	57
39	Controllable Fabrication of Three-Dimensional Radial ZnO Nanowire/Silicon Microrod Hybrid Architectures. <i>Crystal Growth and Design</i> , 2011, 11, 147-153.	3.0	52
40	Hole-transporting layer based on a conjugated polyelectrolyte with organic cations enables efficient inverted perovskite solar cells. <i>Nano Energy</i> , 2019, 57, 248-255.	16.0	52
41	Improving the Performance of PbS Quantum Dot Solar Cells by Optimizing ZnO Window Layer. <i>Nano-Micro Letters</i> , 2017, 9, 24.	27.0	50
42	Binary organic spacer-based quasi-two-dimensional perovskites with preferable vertical orientation and efficient charge transport for high-performance planar solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9542-9549.	10.3	50
43	Phase-transition modulated, high-performance dual-mode photodetectors based on WSe_2/VO_2 heterojunctions. <i>Applied Physics Reviews</i> , 2019, 6, 041407.	11.3	50
44	Self-Assembly and Horizontal Orientation Growth of VO_2 Nanowires. <i>Scientific Reports</i> , 2014, 4, 5456.	3.3	49
45	Optimizing nanosheet-based ZnO hierarchical structure through ultrasonic-assisted precipitation for remarkable photovoltaic enhancement in quasi-solid dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 13097.	6.7	48
46	Graphene oxide and its derivatives as promising In-vitro bio-imaging platforms. <i>Scientific Reports</i> , 2020, 10, 18052.	3.3	48
47	MOFs-derived ZnCo-Fe core-shell nanocages with remarkable oxygen evolution reaction performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17299-17305.	10.3	47
48	Electron Transporting Bilayer of SnO_2 and TiO_2 Nanocolloid Enables Highly Efficient Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900331.	5.8	46
49	Shape-Dependent Defect Structures of Monolayer MoS_2 Crystals Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 763-770.	8.0	45
50	Joule heating driven infrared switching in flexible VO_2 nanoparticle films with reduced energy consumption for smart windows. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4516-4524.	10.3	44
51	Boosting the performance of MA-free inverted perovskite solar cells via multifunctional ion liquid. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12746-12754.	10.3	44
52	Organic Monomolecular Layers Enable Energy-Level Matching for Efficient Hole Transporting Layer Free Inverted Perovskite Solar Cells. <i>ACS Nano</i> , 2019, 13, 1625-1634.	14.6	41
53	Crystallization manipulation and morphology evolution for highly efficient perovskite solar cell fabrication via hydration water induced intermediate phase formation under heat assisted spin-coating. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3012-3021.	10.3	40
54	ZnO hierarchical structures for efficient quasi-solid dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10631.	2.8	39

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55	A self-entanglement mechanism for continuous pulling of carbon nanotube yarns. <i>Carbon</i> , 2011, 49, 4996-5001.	10.3	39
56	Rational construction of plasmonic Z-scheme Ag-ZnO-CeO ₂ heterostructures for highly enhanced solar photocatalytic H ₂ evolution. <i>Applied Surface Science</i> , 2021, 541, 148457.	6.1	39
57	Catalytic synthesis of aluminum borate nanowires. <i>Chemical Physics Letters</i> , 2003, 373, 626-629.	2.6	37
58	Single-Crystalline Vanadium Dioxide Actuators. <i>Advanced Functional Materials</i> , 2019, 29, 1900527.	14.9	37
59	Strained Epitaxy of Monolayer Transition Metal Dichalcogenides for Wrinkle Arrays. <i>ACS Nano</i> , 2021, 15, 6633-6644.	14.6	37
60	Simultaneous determination of epinephrine, ascorbic acid and folic acid using TX-100 modified carbon paste electrode: A cyclic voltammetric study. <i>Journal of Molecular Liquids</i> , 2017, 231, 379-385.	4.9	36
61	Sandwiched Li plating between Lithiophilic-Lithiophobic gradient Silver@Fullerene interphase layer for ultrastable lithium metal anodes. <i>Chemical Engineering Journal</i> , 2022, 429, 132156.	12.7	36
62	Preparation of aluminum borate nanowires. <i>Journal of Crystal Growth</i> , 2004, 263, 600-604.	1.5	35
63	Tailoring the luminescence emission of ZnO nanostructures by hydrothermal post-treatment in water. <i>Applied Physics Letters</i> , 2010, 96, 223105.	3.3	35
64	Directed assembly of nano-scale phase variants in highly strained BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2012, 112, 064102.	2.5	35
65	Effect of sintering temperature on structural, electrical, and ferroelectric properties of lanthanum and sodium co-substituted barium titanate ceramics. <i>Journal of Alloys and Compounds</i> , 2018, 762, 49-61.	5.5	35
66	Hydroiodic Acid Additive Enhanced the Performance and Stability of PbS-QDs Solar Cells via Suppressing Hydroxyl Ligand. <i>Nano-Micro Letters</i> , 2020, 12, 37.	27.0	35
67	Bifunctional Ultrathin PCBM Enables Passivated Trap States and Cascaded Energy Level toward Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20103-20109.	8.0	35
68	Electronically semitransparent ZnO nanorods with superior electron transport ability for DSSCs and solar photocatalysis. <i>Ceramics International</i> , 2018, 44, 7202-7208.	4.8	33
69	Theoretical investigating of graphene/antimonene heterostructure as a promising high cycle capability anodes for fast-charging lithium ion batteries. <i>Applied Surface Science</i> , 2019, 491, 451-459.	6.1	33
70	Facile fabrication of PVB-PVA blend polymer nanocomposite for simultaneous removal of heavy metal ions from aqueous solutions: Kinetic, equilibrium, reusability and adsorption mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106214.	6.7	33
71	Proton Conducting Polyoxometalate/Polypyrrole Films and Their Humidity Sensing Performance. <i>ACS Applied Nano Materials</i> , 2018, 1, 564-571.	5.0	32
72	V ₂ O ₅ -C-SnO ₂ Hybrid Nanobelts as High Performance Anodes for Lithium-ion Batteries. <i>Scientific Reports</i> , 2016, 6, 33597.	3.3	31

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73	Axial Modulation of Metal-Insulator Phase Transition of VO ₂ Nanowires by Graded Doping Engineering for Optically Readable Thermometers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24877-24885.	3.1	31
74	A Universal Stamping Method of Graphene Transfer for Conducting Flexible and Transparent Polymers. <i>Scientific Reports</i> , 2019, 9, 3999.	3.3	31
75	Phase management in single-crystalline vanadium dioxide beams. <i>Nature Communications</i> , 2021, 12, 4214.	12.8	31
76	Polymer Assisted Small Molecule Hole Transport Layers Toward Highly Efficient Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800173.	5.8	30
77	Oxide Inhibitor-Assisted Growth of Single-Layer Molybdenum Dichalcogenides (MoX ₂ , X =) Tj ETQq1 1,0.784314 rgBT /Oe	14.6	30
78	Fabricating High-Efficient Blade-Coated Perovskite Solar Cells under Ambient Condition Using Lead Acetate Trihydrate. <i>Solar Rrl</i> , 2018, 2, 1700214.	5.8	29
79	Electrocatalytic Hydrogen Production: Polyoxometalate-Derived Hexagonal Molybdenum Nitrides (MXenes) Supported by Boron, Nitrogen Codoped Carbon Nanotubes for Efficient Electrochemical Hydrogen Evolution from Seawater (Adv. Funct. Mater. 8/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970046.	14.9	28
80	Phosphorous doped graphitic-C3N4 hierarchical architecture for hydrogen production from water under visible light. <i>Materials Today Energy</i> , 2017, 5, 91-98.	4.7	27
81	Improvement on the performance of perovskite solar cells by doctor-blade coating under ambient condition with hole-transporting material optimization. <i>Journal of Energy Chemistry</i> , 2019, 38, 207-213.	12.9	27
82	Excellent self-healing and antifogging coatings based on polyvinyl alcohol/hydrolyzed poly(styrene-co-maleic anhydride). <i>Journal of Materials Science</i> , 2019, 54, 5961-5970.	3.7	27
83	Involvement of CAPON and Nitric Oxide Synthases in Rat Muscle Regeneration After Peripheral Nerve Injury. <i>Journal of Molecular Neuroscience</i> , 2008, 34, 89-100.	2.3	26
84	Ambipolar quantum transport in few-layer black phosphorus. <i>Physical Review B</i> , 2017, 96, .	3.2	26
85	Research progress on graphene-based materials for high-performance lithium-metal batteries. <i>New Carbon Materials</i> , 2021, 36, 711-728.	6.1	26
86	Site-Specific Deposition of Titanium Oxide on Zinc Oxide Nanorods. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16712-16716.	3.1	24
87	Chemical Stability of ZnO Nanostructures in Simulated Physiological Environments and Its Application in Determining Polar Directions. <i>Inorganic Chemistry</i> , 2008, 47, 7868-7873.	4.0	24
88	Impact of Nanoscale Roughness on Heat Transport across the Solid-Solid Interface. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901582.	3.7	24
89	Ion modification of transition cobalt oxide by soaking strategy for enhanced water splitting. <i>Chemical Engineering Journal</i> , 2021, 423, 130218.	12.7	24
90	Vertically aligned ZnO/amorphous-Si core-shell heterostructured nanowire arrays. <i>Nanotechnology</i> , 2010, 21, 475703.	2.6	23

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91	Natural phosphate-supported Cu(Cu), an efficient and recyclable catalyst for the synthesis of xanthenes and 1,4-disubstituted-1,2,3-triazole derivatives. <i>RSC Advances</i> , 2018, 8, 41536-41547.	3.6	23
92	NiCoS @Cobalt Carbonate Hydroxide Obtained by Surface Sulfurization for Efficient and Stable Hydrogen Evolution at Large Current Densities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35647-35656.	8.0	23
93	Polyoxometalates as electron and proton reservoir assist electrochemical CO_2 reduction. <i>APL Materials</i> , 2020, 8, .	5.1	23
94	Doping Free and Amorphous NiO Film via UV Irradiation for Efficient Inverted Perovskite Solar Cells. <i>Advanced Science</i> , 2022, 9, e2201543.	11.2	23
95	Enhanced stability and photovoltage for inverted perovskite solar cells via precursor engineering. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15880-15886.	10.3	22
96	Vanadium dioxide for thermochromic smart windows in ambient conditions. <i>Materials Today Energy</i> , 2021, 21, 100827.	4.7	22
97	Directly Metering Light Absorption and Heat Transfer in Single Nanowires Using Metal-Insulator Transition in VO_2 . <i>Advanced Optical Materials</i> , 2015, 3, 336-341.	7.3	21
98	Liberating Researchers from the Glovebox: A Universal Thermal Radiation Protocol Toward Efficient Fully Air-Processed Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800324.	5.8	21
99	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production Using Robust Noble-Metal-Free $\text{Zn}_0.5\text{Cd}_0.5\text{S}$ @Graphene Composites Decorated with MoS_2 Nanosheets. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000010.	3.7	21
100	Multiple Regulation over Growth Direction, Band Structure, and Dimension of Monolayer WS_2 by a Quartz Substrate. <i>Chemistry of Materials</i> , 2020, 32, 2508-2517.	6.7	21
101	Photoluminescence study of single ZnO nanostructures: Size effect. <i>Applied Physics Letters</i> , 2009, 95, 053113.	3.3	20
102	A fast transfer-free synthesis of high-quality monolayer graphene on insulating substrates by a simple rapid thermal treatment. <i>Nanoscale</i> , 2016, 8, 2594-2600.	5.6	20
103	A New Effective Approach to Prevent the Degradation of Black Phosphorus: The Scandium Transition Metal Doping. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9654-9662.	3.1	20
104	Superhigh strength of geopolymer with the addition of polyphosphate. <i>Ceramics International</i> , 2018, 44, 2578-2583.	4.8	20
105	Limitations and solutions for achieving high-performance perovskite tandem photovoltaics. <i>Nano Energy</i> , 2021, 88, 106219.	16.0	20
106	Vanadium self-intercalated $\text{C}/\text{V}_1.11\text{S}_2$ nanosheets with abundant active sites for enhanced electro-catalytic hydrogen evolution. <i>Electrochimica Acta</i> , 2019, 300, 208-216.	5.2	19
107	Growth of boron nitride nanotube film in situ. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 527-529.	2.3	18
108	Zn_2TiO_4 - ZnO Nanowire Axial Heterostructures Formed by Unilateral Diffusion. <i>Journal of Physical Chemistry C</i> , 2011, 115, 78-82.	3.1	18

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109	Phase Transition Hysteresis of Tungsten Doped VO ₂ Synergistically Boosts the Function of Smart Windows in Ambient Conditions. ACS Applied Electronic Materials, 2021, 3, 3648-3656.	4.3	18
110	Phase Transformation Evolution in NiTi Shape Memory Alloy under Cyclic Nanoindentation Loadings at Dissimilar Rates. Scientific Reports, 2013, 3, 3412.	3.3	17
111	Bridging the gap between atomically thin semiconductors and metal leads. Nature Communications, 2022, 13, 1777.	12.8	17
112	Dynamically Tracking the Strain Across the Metal-Insulator Transition in VO ₂ Measured Using Electromechanical Resonators. Nano Letters, 2013, 13, 4685-4689.	9.1	16
113	Approaching optimal hole transport layers by an organic monomolecular strategy for efficient inverted perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 16560-16569.	10.3	16
114	Recent progress on kinetic control of chemical vapor deposition growth of high-quality wafer-scale transition metal dichalcogenides. Nanoscale Advances, 2021, 3, 3430-3440.	4.6	16
115	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells. Small, 2022, 18, e2201694.	10.0	16
116	Carbon Nanotubes with Carbon Blacks as Cofillers to Improve Conductivity and Stability. ACS Omega, 2019, 4, 4169-4175.	3.5	15
117	Magnetic AgNPs/Fe ₃ O ₄ @chitosan/PVA nanocatalyst for fast one-pot green synthesis of propargylamine and triazole derivatives. New Journal of Chemistry, 2021, 45, 16119-16130.	2.8	15
118	Effect of graphene layers on the thermomechanical behaviour of a NiTi shape memory alloy during the nanoscale phase transition. Scripta Materialia, 2013, 68, 420-423.	5.2	14
119	Nature of hardness evolution in nanocrystalline NiTi shape memory alloys during solid-state phase transition. Scientific Reports, 2013, 3, 2476.	3.3	14
120	Hierarchical ZnO Nanostructures with Blooming Flowers Driven by Screw Dislocations. Scientific Reports, 2015, 5, 8226.	3.3	14
121	Multistimuli-Responsive Insect-Scale Soft Robotics Based on Anisotropic Super-Aligned VO ₂ Nanowire/Carbon Nanotube Bimorph Actuators. Advanced Intelligent Systems, 2020, 2, 2000051.	6.1	14
122	A laser irradiation synthesis of strongly-coupled VOx-reduced graphene oxide composites as enhanced performance supercapacitor electrodes. Materials Today Energy, 2017, 5, 222-229.	4.7	13
123	Oil boundary approach for sublimation enabled camphor mediated graphene transfer. Journal of Colloid and Interface Science, 2019, 546, 11-19.	9.4	13
124	Highly-Efficient Sulfonated UiO-66(Zr) Optical Fiber for Rapid Detection of Trace Levels of Pb ²⁺ . International Journal of Molecular Sciences, 2021, 22, 6053.	4.1	13
125	Synthesis of gallium borate nanowires. Journal of Crystal Growth, 2004, 263, 504-509.	1.5	12
126	Tuning the optical and electrical properties of hydrothermally grown ZnO nanowires by sealed post annealing treatment. Solid State Communications, 2013, 160, 41-46.	1.9	12

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127	Temperature variations at nano-scale level in phase transformed nanocrystalline NiTi shape memory alloys adjacent to graphene layers. <i>Nanoscale</i> , 2013, 5, 6479.	5.6	12
128	Fully Optically Tunable and Flexible Composite Films for Enhanced Terahertz Control and Multifunctional Terahertz Devices. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3044-3051.	4.3	12
129	Noble-Metal-Free Oxygen Evolution Reaction Electrocatalysts Working at High Current Densities over 1000 mA/cm ² : From Fundamental Understanding to Design Principles. <i>Energy and Environmental Materials</i> , 2023, 6, .	2.8	12
130	Novel versatile 3D bio-scaffold made of natural biocompatible hagfish exudate for tissue growth and organoid modeling. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 894-902.	7.5	11
131	Spatially resolved photoluminescence study of single ZnO tetrapods. <i>Nanotechnology</i> , 2008, 19, 405702.	2.6	10
132	Y-shaped ZnO Nanobelts Driven from Twinned Dislocations. <i>Scientific Reports</i> , 2016, 6, 22494.	3.3	10
133	Negative compressibility in graphene-terminated black phosphorus heterostructures. <i>Physical Review B</i> , 2016, 93, .	3.2	10
134	Gate-tunable strong-weak localization transition in few-layer black phosphorus. <i>Nanotechnology</i> , 2018, 29, 035204.	2.6	10
135	Free-Molecular-Flow Modulated Synthesis of Hexagonal Boron Nitride Monolayers. <i>Crystal Growth and Design</i> , 2019, 19, 7007-7014.	3.0	10
136	Easily Synthesized Polyaniline@Cellulose Nanowhiskers Better Tune Network Structures in Ag-Based Adhesives: Examining the Improvements in Conductivity, Stability, and Flexibility. <i>Nanomaterials</i> , 2019, 9, 1542.	4.1	10
137	Novel Sr ₅ (PO ₄) ₂ SiO ₄ -graphene nanocomposites for applications in bone regeneration in vitro. <i>Applied Surface Science</i> , 2020, 507, 145176.	6.1	10
138	Simplified Compact Perovskite Solar Cells with Efficiency of 19.6% via Interface Engineering. <i>Energy and Environmental Materials</i> , 2020, 3, 5-11.	12.8	10
139	Highly Orientational Order Perovskite Induced by In situ-generated 1D Perovskitoid for Efficient and Stable Printable Photovoltaics. <i>Small</i> , 2022, 18, e2200130.	10.0	10
140	Nanostructural Transformation and Formation of Heterojunctions from Si Nanowires. <i>ACS Nano</i> , 2010, 4, 5559-5564.	14.6	9
141	Combinational rate effects on the performance of nano-grained pseudoelastic Nitinol. <i>Materials Letters</i> , 2013, 105, 98-101.	2.6	9
142	One-pot facile simultaneous <i>in situ</i> synthesis of conductive Ag-polyaniline composites using Keggin and Preyssler-type phosphotungstates. <i>RSC Advances</i> , 2019, 9, 2772-2783.	3.6	9
143	Carbon-assisted nucleation and vertical growth of high-quality ZnO nanowire arrays. <i>AIP Advances</i> , 2011, 1, 032104.	1.3	8
144	Elevated expression of CAPON and neuronal nitric oxide synthase in the sciatic nerve of rats following constriction injury. <i>Veterinary Journal</i> , 2011, 187, 374-380.	1.7	8

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145	Synthesis of Nanostructured Boron Nitride Aerogels by Rapid Pyrolysis of Melamine Diborate Aerogels via Induction Heating: From Composition Adjustment to Property Studies. ACS Applied Nano Materials, 2021, 4, 13788-13797.	5.0	8
146	Three Dimensional Sculpturing of Vertical Nanowire Arrays by Conventional Photolithography. Scientific Reports, 2016, 6, 18886.	3.3	7
147	Low-temperature wafer-scale fabrication of vertical VO ₂ nanowire arrays. Applied Physics Letters, 2020, 117, .	3.3	7
148	Remarkable-cycling-performance anode for Li-ion battery: The bilayer I^2 -bismuthene. Electrochimica Acta, 2021, 388, 138641.	5.2	7
149	Controllable growth of zinc oxide micro- and nanocrystals by oxidization of Zn-Cu alloy. Journal of Solid State Chemistry, 2005, 178, 819-824.	2.9	6
150	Metal Oxide Coating on Carbon Nanotubes by a Methanol-Thermal Method. Journal of Nanoscience and Nanotechnology, 2005, 5, 932-936.	0.9	6
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