

Feng Huang

List of Publications by Year in descending order

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papers

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18482

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#	ARTICLE	IF	CITATIONS
1	Efficient Visible-Light Photocatalytic Hydrogen Evolution and Enhanced Photostability of Core/Shell CdS/g-C ₃ N ₄ Nanowires. ACS Applied Materials & Interfaces, 2013, 5, 10317-10324.	8.0	747
2	Progress of nanocrystalline growth kinetics based on oriented attachment. Nanoscale, 2010, 2, 18-34.	5.6	486
3	Stable 6%-efficient Sb ₂ Se ₃ solar cells with a ZnO buffer layer. Nature Energy, 2017, 2, .	39.5	441
4	Water-driven structure transformation in nanoparticles at room temperature. Nature, 2003, 424, 1025-1029.	27.8	427
5	Nanoparticles: Strained and Stiff. Science, 2004, 305, 651-654.	12.6	420
6	Noble metal-free Ni(OH) ₂ @g-C ₃ N ₄ composite photocatalyst with enhanced visible-light photocatalytic H ₂ -production activity. Catalysis Science and Technology, 2013, 3, 1782.	4.1	411
7	Two-Stage Crystal-Growth Kinetics Observed during Hydrothermal Coarsening of Nanocrystalline ZnS. Nano Letters, 2003, 3, 373-378.	9.1	370
8	Gallium oxide solar-blind ultraviolet photodetectors: a review. Journal of Materials Chemistry C, 2019, 7, 8753-8770.	5.5	353
9	Enabling PIEZOpotential in PIEZoelectric Semiconductors for Enhanced Catalytic Activities. Angewandte Chemie - International Edition, 2019, 58, 7526-7536.	13.8	234
10	Glycopeptide Antibiotics Potently Inhibit Cathepsin L in the Late Endosome/Lysosome and Block the Entry of Ebola Virus, Middle East Respiratory Syndrome Coronavirus (MERS-CoV), and Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV). Journal of Biological Chemistry, 2016, 291, 9218-9232.	3.4	230
11	All-Inorganic CsCu ₂ I ₃ Single Crystal with High PLQY (~15.7%) Intrinsic White-Light Emission via Strongly Localized 1D Excitonic Recombination. Advanced Materials, 2019, 31, e1905079.	21.0	229
12	Enhanced Photocatalytic Hydrogen Production Activities of Au-Loaded ZnS Flowers. ACS Applied Materials & Interfaces, 2013, 5, 1031-1037.	8.0	221
13	Low-Dimensional Structure Vacuum-Ultraviolet Sensitive (<i>λ</i> <math>< 200\text{ nm}</math>) Photodetector with Fast-Response Speed Based on High-Quality AlN Micro/Nanowire. Advanced Materials, 2015, 27, 3921-3927.	21.0	208
14	A Multistep Oriented Attachment Kinetics: Coarsening of ZnS Nanoparticle in Concentrated NaOH. Journal of the American Chemical Society, 2006, 128, 12981-12987.	13.7	194
15	Vacuum-Ultraviolet Photovoltaic Detector. ACS Nano, 2018, 12, 425-431.	14.6	193
16	Molecular Dynamics Simulations, Thermodynamic Analysis, and Experimental Study of Phase Stability of Zinc Sulfide Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 13051-13060.	2.6	180
17	Growth Strategy and Physical Properties of the High Mobility P-Type CuI Crystal. Crystal Growth and Design, 2010, 10, 2057-2060.	3.0	176
18	Treatment of Cr ^{VI} -Containing Mg(OH) ₂ Nanowaste. Angewandte Chemie - International Edition, 2008, 47, 5619-5622.	13.8	175

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19	Size-Dependent Phase Transformation Kinetics in Nanocrystalline ZnS. Journal of the American Chemical Society, 2005, 127, 4523-4529.	13.7	172
20	Recycling Rare Earth Elements from Industrial Wastewater with Flowerlike Nano-Mg(OH) ₂ . ACS Applied Materials & Interfaces, 2013, 5, 9719-9725.	8.0	171
21	A self-powered deep-ultraviolet photodetector based on an epitaxial Ga ₂ O ₃ /Ga:ZnO heterojunction. Journal of Materials Chemistry C, 2017, 5, 8688-8693.	5.5	167
22	Crystal growth by oriented attachment: kinetic models and control factors. CrystEngComm, 2014, 16, 1419.	2.6	162
23	High-Performance Graphene/ ² -Ga ₂ O ₃ Heterojunction Deep-Ultraviolet Photodetector with Hot-Electron Excited Carrier Multiplication. ACS Applied Materials & Interfaces, 2018, 10, 22419-22426.	8.0	162
24	The Role of Oriented Attachment Crystal Growth in Hydrothermal Coarsening of Nanocrystalline ZnS. Journal of Physical Chemistry B, 2003, 107, 10470-10475.	2.6	161
25	Recycling Mg(OH) ₂ Nanoadsorbent during Treating the Low Concentration of Cr ^{VI} . Environmental Science & Technology, 2011, 45, 1955-1961.	10.0	153
26	ZnS nano-architectures: photocatalysis, deactivation and regeneration. Nanoscale, 2010, 2, 2062.	5.6	146
27	Enhanced visible light photocatalytic H ₂ evolution of metal-free g-C ₃ N ₄ /SiC heterostructured photocatalysts. Applied Surface Science, 2017, 391, 449-456.	6.1	140
28	Special phase transformation and crystal growth pathways observed in nanoparticles. Geochemical Transactions, 2003, 4, 1.	0.7	136
29	Bioremediation of Cr(VI) and Immobilization as Cr(III) by <i>Ochrobactrum anthropi</i> . Environmental Science & Technology, 2010, 44, 6357-6363.	10.0	130
30	Vacuum-ultraviolet photodetectors. Photonix, 2020, 1, .	13.5	126
31	Layered ultrathin PbI ₂ single crystals for high sensitivity flexible photodetectors. Journal of Materials Chemistry C, 2015, 3, 4402-4406.	5.5	119
32	The Electrochemical Reaction of Zinc Oxide Thin Films with Lithium. Journal of the Electrochemical Society, 2003, 150, A714.	2.9	115
33	A study of the potential application of nano-Mg(OH) ₂ in adsorbing low concentrations of uranyl tricarbonate from water. Nanoscale, 2012, 4, 2423.	5.6	111
34	ZnO nanoflower-based photoelectrochemical DNAzyme sensor for the detection of Pb ²⁺ . Biosensors and Bioelectronics, 2014, 56, 243-249.	10.1	109
35	Dual Self-Trapped Exciton Emission with Ultrahigh Photoluminescence Quantum Yield in CsCu ₂ I ₃ and Cs ₃ Cu ₂ I ₅ Perovskite Single Crystals. Journal of Physical Chemistry C, 2020, 124, 20469-20476.	3.1	108
36	Vacuum-Ultraviolet Photodetection in Few-Layered h-BN. ACS Applied Materials & Interfaces, 2018, 10, 27116-27123.	8.0	106

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37	Ultrahigh EQE (15%) Solar-blind UV Photovoltaic Detector with Organic-Inorganic Heterojunction via Dual Built-in Fields Enhanced Photogenerated Carrier Separation Efficiency Mechanism. <i>Advanced Functional Materials</i> , 2019, 29, 1900935.	14.9	106
38	Ti ₃ C ₂ : An Ideal Co-catalyst?. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1914-1918.	13.8	104
39	Schottky or Ohmic Metal-Semiconductor Contact: Influence on Photocatalytic Efficiency of Ag/ZnO and Pt/ZnO Model Systems. <i>ChemSusChem</i> , 2014, 7, 101-104.	6.8	103
40	Vacuum-Ultraviolet Photovoltaic Detector with Improved Response Speed and Responsivity via Heating Annihilation Trap State Mechanism. <i>Advanced Optical Materials</i> , 2018, 6, 1800697.	7.3	102
41	High-Crystalline 2D Layered Pbl ₂ with Ultrasoft Surface: Liquid-Phase Synthesis and Application of High-Speed Photon Detection. <i>Advanced Electronic Materials</i> , 2016, 2, 1600291.	5.1	98
42	Vacuum-Ultraviolet Photon Detections. <i>IScience</i> , 2020, 23, 101145.	4.1	98
43	MgZnO-based metal-semiconductor-metal solar-blind photodetectors on ZnO substrates. <i>Applied Physics Letters</i> , 2011, 98, 221112.	3.3	96
44	Enhanced visible light photocatalytic H ₂ production activity of g-C ₃ N ₄ via carbon fiber. <i>Applied Surface Science</i> , 2015, 358, 287-295.	6.1	95
45	Recent advances in exfoliation techniques of layered and non-layered materials for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23512-23536.	10.3	89
46	Growth, characterization and optoelectronic applications of pure-phase large-area CsPb ₂ Br ₅ flake single crystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 446-451.	5.5	88
47	Lanthanide dopant-induced formation of uniform sub-10 nm active-core/active-shell nanocrystals with near-infrared to near-infrared dual-modal luminescence. <i>Journal of Materials Chemistry</i> , 2012, 22, 2632-2640.	6.7	87
48	Graphene Interdigital Electrodes for Improving Sensitivity in a Ga ₂ O ₃ :Zn Deep-Ultraviolet Photoconductive Detector. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1013-1020.	8.0	86
49	An ultrafast-temporally-responsive flexible photodetector with high sensitivity based on high-crystallinity organic-inorganic perovskite nanoflake. <i>Nanoscale</i> , 2017, 9, 12718-12726.	5.6	83
50	Surface Chemistry Controls Crystallinity of ZnS Nanoparticles. <i>Nano Letters</i> , 2006, 6, 605-610.	9.1	80
51	Lanthanide activator doped NaYb _{1-x} Gd _x F ₄ nanocrystals with tunable down-, up-conversion luminescence and paramagnetic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 6186.	6.7	79
52	Microscopic Investigations of the Cr(VI) Uptake Mechanism of Living <i>Ochrobactrum anthropi</i> . <i>Langmuir</i> , 2008, 24, 9630-9635.	3.5	77
53	Hydrothermal Growth of ZnO Single Crystals with High Carrier Mobility. <i>Crystal Growth and Design</i> , 2009, 9, 4378-4383.	3.0	77
54	All-silicon photovoltaic detectors with deep ultraviolet selectivity. <i>PhotonIX</i> , 2020, 1, .	13.5	71

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55	Reversible, Surface-Controlled Structure Transformation in Nanoparticles Induced by an Aggregation State. <i>Physical Review Letters</i> , 2004, 92, 155501.	7.8	69
56	Oriented Attachment Kinetics for Ligand Capped Nanocrystals: Å Coarsening of Thiol-PbS Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1449-1454.	2.6	68
57	Vacuum Ultraviolet Photodetection in Two-Dimensional Oxides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20696-20702.	8.0	68
58	A situ hydrothermal synthesis of SrTiO ₃ /TiO ₂ heterostructure nanosheets with exposed (001) facets for enhancing photocatalytic degradation activity. <i>Applied Surface Science</i> , 2014, 319, 68-74.	6.1	67
59	Raman tensor of AlN bulk single crystal. <i>Photonics Research</i> , 2015, 3, 38.	7.0	66
60	Vacancy engineering in nanostructured semiconductors for enhancing photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17143-17172.	10.3	66
61	Strategy for Preparing Al-Doped ZnO Thin Film with High Mobility and High Stability. <i>Crystal Growth and Design</i> , 2011, 11, 21-25.	3.0	65
62	Influence of lattice integrity and phase composition on the photocatalytic hydrogen production efficiency of ZnS nanomaterials. <i>Nanoscale</i> , 2012, 4, 2859.	5.6	65
63	High-Responsivity Solar-Blind Photodetector Based on $\text{Mg}_{0.46}\text{Zn}_{0.54}\text{O}$ Thin Film. <i>IEEE Electron Device Letters</i> , 2012, 33, 1033-1035.	3.9	60
64	Balanced Photodetection in One-Step Liquid-Phase-Synthesized CsPbBr ₃ Micro-/Nanoflake Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1865-1870.	8.0	60
65	Optimizing ultrathin Ag films for high performance oxide-metal-oxide flexible transparent electrodes through surface energy modulation and template-stripping procedures. <i>Scientific Reports</i> , 2017, 7, 44576.	3.3	59
66	Aqueous Solution Growth of Millimeter-Sized Nongreen-Luminescent Wide Bandgap Cs ₄ PbBr ₆ Bulk Crystal. <i>Crystal Growth and Design</i> , 2018, 18, 6393-6398.	3.0	59
67	Aggregation-Induced Fast Crystal Growth of SnO ₂ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2012, 134, 16228-16234.	13.7	57
68	Vacuum ultraviolet photovoltaic arrays. <i>Photonics Research</i> , 2019, 7, 98.	7.0	57
69	Correlation between the Photoluminescence and Oriented Attachment Growth Mechanism of CdS Quantum Dots. <i>Journal of the American Chemical Society</i> , 2010, 132, 9528-9530.	13.7	54
70	Pure multistep oriented attachment growth kinetics of surfactant-free SnO ₂ nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8516.	2.8	53
71	Optical and magnetic properties of Cr-doped ZnS nanocrystallites. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	53
72	Average BER of subcarrier intensity modulated free space optical systems over the exponentiated Weibull fading channels. <i>Optics Express</i> , 2014, 22, 20828.	3.4	53

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73	Ultrafast Photovoltaic-Type Deep Ultraviolet Photodetectors Using Hybrid Zero-/Two-Dimensional Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 8412-8418.	8.0	53
74	A Thermodynamically Stable Nanophase Material. Journal of the American Chemical Society, 2006, 128, 6126-6131.	13.7	52
75	Research progress in ZnO single-crystal: growth, scientific understanding, and device applications. Science Bulletin, 2014, 59, 1235-1250.	1.7	50
76	Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. ACS Photonics, 2019, 6, 1869-1875.	6.6	49
77	Template-Free Growth of Well-Ordered Silver Nano Forest/Ceramic Metamaterial Films with Tunable Optical Responses. Advanced Materials, 2017, 29, 1605324.	21.0	42
78	Effect of Surface Etching on the Efficiency of ZnO-Based Dye-Sensitized Solar Cells. Langmuir, 2010, 26, 7153-7156.	3.5	41
79	Analysis and simulation of the structure of nanoparticles that undergo a surface-driven structural transformation. Journal of Chemical Physics, 2004, 120, 11785-11795.	3.0	40
80	Paramagnetic anisotropy of Co-doped ZnO single crystal. Applied Physics Letters, 2006, 89, 112507.	3.3	40
81	A Rapid and Robust Light-and-Solution-Triggered In Situ Crafting of Organic Passivating Membrane over Metal Halide Perovskites for Markedly Improved Stability and Photocatalysis. Nano Letters, 2021, 21, 1643-1650.	9.1	40
82	Ultrawide Band Gap Oxide Nanodots ($E_g > 4.8$ eV) for a High-Performance Deep Ultraviolet Photovoltaic Detector. ACS Applied Materials & Interfaces, 2020, 12, 6030-6036.	8.0	39
83	Photophysics in $Cs_3Cu_2I_5$ and $CsCu_2I_3$. Materials Chemistry Frontiers, 2021, 5, 7088-7107.	5.9	39
84	Use of High-Pressure CO_2 for Concentrating Cr^{VI} from Electroplating Wastewater by Mg-Al Layered Double Hydroxide. ACS Applied Materials & Interfaces, 2013, 5, 11271-11275.	8.0	38
85	Enhanced performance of solar-blind ultraviolet photodetector based on Mg-doped amorphous gallium oxide film. Vacuum, 2019, 159, 204-208.	3.5	38
86	Ultrafast (600Åps) $\hat{\pm}$ -ray scintillators. Photonix, 2022, 3, .	13.5	38
87	Growth and Phase-Transformation Mechanisms of Nanocrystalline CdS in Na_2S Solution. Journal of Physical Chemistry C, 2008, 112, 9229-9233.	3.1	37
88	Tunable surface charge of Zn $\hat{\%}$: $\hat{\%}$ Cu nano-adsorbent induced the selective preconcentration of cationic dyes from wastewater. Nanoscale, 2012, 4, 3665.	5.6	37
89	Interface electronic properties of co-evaporated MAPbI ₃ on ZnO(0001): <i>in situ</i> X-ray photoelectron spectroscopy and ultraviolet photoelectron spectroscopy study. Applied Physics Letters, 2016, 108, .	3.3	37
90	Effect of interfacial recombination, bulk recombination and carrier mobility on the $J-V$ hysteresis behaviors of perovskite solar cells: a drift-diffusion simulation study. Physical Chemistry Chemical Physics, 2019, 21, 17836-17845.	2.8	37

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91	Oxides/graphene heterostructure for deep-ultraviolet photovoltaic photodetector. <i>Carbon</i> , 2019, 147, 427-433.	10.3	37
92	Ultra-Robust Deep-UV Photovoltaic Detector Based on Graphene/(AlGa)2O3/GaN with High-Performance in Temperature Fluctuations. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48071-48078.	8.0	36
93	Ultrawide-Bandgap Amorphous MgGaO: Nonequilibrium Growth and Vacuum Ultraviolet Application. <i>Advanced Optical Materials</i> , 2019, 7, 1801272.	7.3	36
94	Study of interface electric field affecting the photocatalysis of ZnO. <i>Chemical Communications</i> , 2011, 47, 4517.	4.1	35
95	Template-synthesized ultra-thin molecularly imprinted polymers membrane for the selective preconcentration of dyes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10959-10968.	10.3	35
96	Evolution of ZnS Nanostructure Morphology under Interfacial Free-Energy Control. <i>Chemistry of Materials</i> , 2008, 20, 2438-2443.	6.7	34
97	Treatment of nanowaste via fast crystal growth: With recycling of nano-SnO2 from electroplating sludge as a study case. <i>Journal of Hazardous Materials</i> , 2012, 211-212, 414-419.	12.4	34
98	[Ru(bpy) 3] 2+ -mediated photoelectrochemical detection of bisphenol A on a molecularly imprinted polypyrrole modified SnO 2 electrode. <i>Analytica Chimica Acta</i> , 2015, 887, 59-66.	5.4	34
99	Formation of AgGaS2 nano-pyramids from Ag2S nanospheres through intermediate Ag2S→AgGaS2 heterostructures and AgGaS2 sensitized Mn2+ emission. <i>Nanoscale</i> , 2014, 6, 2340.	5.6	33
100	Amorphous-MgGaO Film Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detector. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42681-42687.	8.0	33
101	Ultra-high Photovoltage (2.45 V) Forming in Graphene Heterojunction via Quasi-Fermi Level Splitting Enhanced Effect. <i>IScience</i> , 2020, 23, 100818.	4.1	33
102	NaOH Concentration Effect on the Oriented Attachment Growth Kinetics of ZnS. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5290-5294.	2.6	32
103	SnO2/Fe2O3 nanoheterostructure with novel architecture: structural characteristics and photocatalytic properties. <i>CrystEngComm</i> , 2011, 13, 4873.	2.6	32
104	The growth and investigation on Ga-doped ZnO single crystals with high thermal stability and high carrier mobility. <i>CrystEngComm</i> , 2011, 13, 3338.	2.6	31
105	Laser Tuning in van der Waals Crystals. <i>ACS Nano</i> , 2018, 12, 2001-2007.	14.6	31
106	High-Performance Solar Blind Ultraviolet Photodetector Based on Single Crystal Orientation Mg-Alloyed Ga2O3 Film Grown by a Nonequilibrium MOCVD Scheme. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1653-1659.	4.3	31
107	X-ray radiation excited ultralong (>20,000 seconds) intrinsic phosphorescence in aluminum nitride single-crystal scintillators. <i>Nature Communications</i> , 2020, 11, 4351.	12.8	31
108	Balanced Photodetection in Mixed-Dimensional Phototransistors Consisting of CsPbBr3 Quantum Dots and Few-Layer MoS2. <i>ACS Applied Nano Materials</i> , 2019, 2, 2599-2605.	5.0	30

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109	Raman tensor of layered black phosphorus. <i>Photonix</i> , 2020, 1, .	13.5	29
110	Raman tensor of layered MoS ₂ . <i>Optics Letters</i> , 2020, 45, 1313.	3.3	29
111	Elucidation of "phase difference" in Raman tensor formalism. <i>Photonics Research</i> , 2018, 6, 709.	7.0	28
112	Enabling PIEZOpotential in PIEZOelectric Semiconductors for Enhanced Catalytic Activities. <i>Angewandte Chemie</i> , 2019, 131, 7606-7616.	2.0	28
113	Raman Tensor of van der Waals MoSe ₂ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4311-4316.	4.6	28
114	The Effects of Particle Concentration and Surface Charge on the Oriented Attachment Growth Kinetics of CdTe Nanocrystals in H ₂ O. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10357-10364.	3.1	27
115	Vacuum Ultraviolet (120–200 nm) Avalanche Photodetectors. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	27
116	Ultraviolet-light-induced bactericidal mechanism on ZnO single crystals. <i>Chemical Communications</i> , 2009, , 6783.	4.1	26
117	Co-catalyst-free large ZnO single crystal for high-efficiency piezocatalytic hydrogen evolution from pure water. <i>Journal of Energy Chemistry</i> , 2022, 65, 304-311.	12.9	26
118	A Strategy of Transparent Conductive Oxide for UV Focal Plane Array Detector: Two-Step Thermodynamic Process. <i>Advanced Electronic Materials</i> , 2016, 2, 1600320.	5.1	25
119	High-sensitive and fast response to 255 nm deep-UV light of CH ₃ NH ₃ PbX ₃ (X = Cl, Br, I) bulk crystals. <i>Royal Society Open Science</i> , 2018, 5, 180905.	2.4	25
120	Bienenstock-Cooper-Munro Learning Rule Realized in Polysaccharide-Gated Synaptic Transistors with Tunable Threshold. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50061-50067.	8.0	25
121	Raman spectroscopy regulation in van der Waals crystals. <i>Photonics Research</i> , 2018, 6, 991.	7.0	25
122	Growth, Structures, and Properties of Li ₂ Zn ₂ (MoO ₄) ₃ and Co-doped Li ₂ Zn ₂ (MoO ₄) ₃ . <i>Crystal Growth and Design</i> , 2009, 9, 914-920.	3.0	24
123	Improving the stability of methylammonium lead iodide perovskite solar cells by cesium doping. <i>Thin Solid Films</i> , 2018, 667, 40-47.	1.8	24
124	Amorphous boron nitride for vacuum-ultraviolet photodetection. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	24
125	Anisotropic temperature-dependence of optical phonons in layered Pbl ₂ . <i>Journal of Raman Spectroscopy</i> , 2018, 49, 775-779.	2.5	23
126	One-step on-chip synthesis of highly-luminescent Cs ₄ PbBr ₆ microcrystal. <i>Materials Letters</i> , 2018, 232, 118-121.	2.6	23

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127	Raman Tensor of WSe ₂ via Angle-Resolved Polarized Raman Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 29337-29342.	3.1	23
128	Hydrogen Impurities in ZnO: Shallow Donors in ZnO Semiconductors and Active Sites for Hydrogenation of Carbon Species. Journal of Physical Chemistry Letters, 2020, 11, 2402-2407.	4.6	22
129	Temperature-sensitive growth kinetics and photoluminescence properties of CdS quantum dots. CrystEngComm, 2013, 15, 4963.	2.6	21
130	Cu _{1.94} Sâ€“MnS dimeric nanoheterostructures with bifunctions: localized surface plasmon resonance and magnetism. CrystEngComm, 2013, 15, 4217.	2.6	21
131	Steady-state characteristics and transient response of MgZnO-based metal-semiconductor-metal solar-blind ultraviolet photodetector with three types of electrode structures. Optics Express, 2013, 21, 18387.	3.4	21
132	Ti ₃ C ₂ : An Ideal Coâ€“catalyst?. Angewandte Chemie, 2020, 132, 1930-1934.	2.0	21
133	Near vacuum-ultraviolet aperiodic oscillation emission of AlN films. Science Bulletin, 2020, 65, 827-831.	9.0	21
134	A plasmonic nano-antenna with controllable resonance frequency: Cu _{1.94} Sâ€“ZnS dimeric nanoheterostructure synthesized in solution. Journal of Materials Chemistry, 2012, 22, 22614.	6.7	20
135	Subsolidus phase relationships and photocatalytic properties in the ternary system TiO ₂ â€“Bi ₂ O ₃ â€“V ₂ O ₅ . Journal of Alloys and Compounds, 2014, 583, 285-290.	5.5	20
136	Ultrawide-bandgap (6.14 eV) (AlGa) ₂ O ₃ /Ga ₂ O ₃ heterostructure designed by lattice matching strategy for highly sensitive vacuum ultraviolet photodetection. Science China Materials, 2021, 64, 3027-3036.	6.3	20
137	In-plane enhanced epitaxy for step-flow AlN yielding a high-performance vacuum-ultraviolet photovoltaic detector. CrystEngComm, 2020, 22, 654-659.	2.6	19
138	Room-Temperature Sputtered Aluminum-Doped Zinc Oxide for Semitransparent Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 9610-9617.	5.1	19
139	Raman tensor of layered black arsenic. Journal of Raman Spectroscopy, 2020, 51, 1324-1330.	2.5	19
140	Linear Classification Function Emulated by Pectinâ€“Based Polysaccharideâ€“Gated Multiterminal Neuron Transistors. Advanced Functional Materials, 2021, 31, 2102015.	14.9	19
141	Pt/ZnGa ₂ O ₄ /p-Si Back-to-Back Heterojunction for Deep UV Sensitive Photovoltaic Photodetection with Ultralow Dark Current and High Spectral Selectivity. ACS Applied Materials & Interfaces, 2022, 14, 5653-5660.	8.0	19
142	ZnO nanowires array grown on Ga-doped ZnO single crystal for dye-sensitized solar cells. Scientific Reports, 2015, 5, 11499.	3.3	18
143	Growth of vertically aligned ZnO nanowire arrays on ZnO single crystals. Materials Letters, 2015, 154, 40-43.	2.6	18
144	Critical conditions for the formation of p-type ZnO with Li doping. RSC Advances, 2018, 8, 30868-30874.	3.6	18

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145	ZnGa ₂ O ₄ deep-ultraviolet photodetector based on Si substrate. <i>Materials Letters</i> , 2021, 283, 128805.	2.6	18
146	Lu ₂ O ₃ : A promising ultrawide bandgap semiconductor for deep UV photodetector. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	18
147	Experimental Evidence on Stability of N Substitution for O in ZnO Lattice. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8901-8907.	4.6	17
148	Raman tensor of layered WS ₂ . <i>Science China Materials</i> , 2020, 63, 1848-1854.	6.3	17
149	Relationship between the coprecipitation mechanism, doping structure and physical properties of Zn _{1-x} CoxS nanocrystallites. <i>Nanotechnology</i> , 2007, 18, 035705.	2.6	16
150	Formation and Self-Assembly of Cadmium Hydroxide Nanoplates in Molten Composite-Hydroxide Solution. <i>Crystal Growth and Design</i> , 2010, 10, 4285-4291.	3.0	16
151	The role of Be incorporation in the modulation of the N doping ZnO. <i>Journal of Alloys and Compounds</i> , 2015, 622, 719-724.	5.5	16
152	Raman Tensor of Layered Td-WTe ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 16596-16603.	3.1	16
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