Feng Huang

List of Publications by Year
in descending order

252	14,111	18482 62	24258 110
papers	citations	h-index	g-index

266	266	266	15694
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Raman tensor of graphite: Symmetry of G, D and Dâ€² phonons. Science China Materials, 2022, 65, 268-272.	6.3	2
2	Co-catalyst-free large ZnO single crystal for high-efficiency piezocatalytic hydrogen evolution from pure water. Journal of Energy Chemistry, 2022, 65, 304-311.	12.9	26
3	Pt/ZnGa₂O₄/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
4	Anomalous Blue Shift of Exciton Luminescence in Diamond. Nano Letters, 2022, 22, 1604-1608.	9.1	12
5	C-Doped KNbO₃ single crystals for enhanced piezocatalytic intermediate water splitting. Environmental Science: Nano, 2022, 9, 1952-1960.	4.3	13
6	Ultra-Hard (41 GPa) Isotopic Pure ¹⁰BP Semiconductor Microwires for Flexible Photodetection and Pressure Sensing. ACS Nano, 2022, 16, 4004-4013.	14.6	5
7	Vacuum Ultraviolet (120â€“200 nm) Avalanche Photodetectors. Advanced Optical Materials, 2022, 10, .	7.3	27
8	Ultrafast (600Âps) Î±-ray scintillators. PhotoniX, 2022, 3, .	13.5	38
9	Turn-up Luminescent Sensing of Ultraviolet Radiation by Lanthanide Metalâ€“Organic Frameworks. Inorganic Chemistry, 2022, 61, 4561-4565.	4.0	10
10	Ultrahigh EQE (38.1%) Deepâ€UV Photodiode with Chemicallyâ€Doped Graphene as Hole Transport Layer. Advanced Optical Materials, 2022, 10, .	7.3	5
11	Robust route to photocatalytic nitrogen fixation mediated by capitalizing on defect-tailored InVO₄ nanosheets. Environmental Science: Nano, 2022, 9, 1996-2005.	4.3	13
12	Bifunctional RbBiNb2O7/poly(tetrafluoroethylene) for high-efficiency piezocatalytic hydrogen and hydrogen peroxide production from pure water. Chemical Engineering Journal, 2022, 446, 136958.	12.7	16
13	Extremely High Photovoltage (3.16 V) Achieved in Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. ACS Photonics, 2022, 9, 2101-2108.	6.6	12
14	2D van der Waals Molecular Crystal Î²â€HgI₂: Economical, Rapid, and Substrateâ€Free Liquidâ€Phase Synthesis and Strong Inâ€Plane Optical Anisotropy. Small, 2021, 17, e2005368.	10.0	6
15	ZnGa2O4 deep-ultraviolet photodetector based on Si substrate. Materials Letters, 2021, 283, 128805.	2.6	18
16	Efficient sky-blue radioluminescence of microcrystalline Cs₃Cu₂I₅ based large-scale eco-friendly composite scintillators for high-sensitive ionizing radiation detection. Materials Chemistry Frontiers, 2021, 5, 4739-4745.	5.9	13
17	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
18	High-Pressure O2 Annealing Enhances the Crystallinity of Ultrawide-Band-Gap Sesquioxides Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detection. ACS Applied Materials & Interfaces, 2021, 13, 16660-16668.	8.0	5

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19	Laser Tuning in Layered h-BN Crystals. Journal of Physical Chemistry Letters, 2021, 12, 3795-3801.	4.6	6
20	Identification of TO and LO phonons in cubic natBP, 10BP and 11BP crystals. Applied Physics Letters, 2021, 118, .	3.3	9
21	Self-assembled eco-friendly metal halide heterostructures for bright and color-tunable white radioluminescence. Cell Reports Physical Science, 2021, 2, 100437.	5.6	16
22	Lu2O3: A promising ultrawide bandgap semiconductor for deep UV photodetector. Applied Physics Letters, 2021, 118, .	3.3	18
23	Laser tuning in AlN single crystals. Science China Materials, 2021, 64, 2877-2882.	6.3	3
24	Linear Classification Function Emulated by Pectinâ€Based Polysaccharideâ€Gated Multiterminal Neuron Transistors. Advanced Functional Materials, 2021, 31, 2102015.	14.9	19
25	High-Efficiency Down-Conversion Radiation Fluorescence and Ultrafast Photoluminescence (1.2 ns) at the Interface of Hybrid Cs₄PbBr₆â€“CsI Nanocrystals. Journal of Physical Chemistry Letters, 2021, 12, 7342-7349.	4.6	16
26	Ultrawide-bandgap (6.14 eV) (AlGa)2O3/Ga2O3 heterostructure designed by lattice matching strategy for highly sensitive vacuum ultraviolet photodetection. Science China Materials, 2021, 64, 3027-3036.	6.3	20
27	Amorphous (LuGa)2O3 film for deep-ultraviolet photovoltaic detector. Materials Letters, 2021, 297, 129980.	2.6	4
28	Micron-Thick Hexagonal Boron Nitride Crystalline Film for Vacuum Ultraviolet Photodetection with Improved Sensitivity and Spectral Response. ACS Applied Electronic Materials, 2021, 3, 3774-3780.	4.3	4
29	Narrow band emission from layered Î±-HgI2 micro-/nano-sheets with high Huang-Rhys factor. Journal of Luminescence, 2021, 237, 118161.	3.1	2
30	Temperature-dependent optical phonon shifts and splitting in cubic ¹⁰BP, ^{nat}BP, and ¹¹BP crystals. Optics Letters, 2021, 46, 4844.	3.3	7
31	Extraction of carrier concentration and mobility of ZnO by mid-infrared reflectance spectroscopy. Journal of Luminescence, 2021, 239, 118365.	3.1	8
32	Photophysics in Cs₃Cu₂I₅ and CsCu₂I₃. Materials Chemistry Frontiers, 2021, 5, 7088-7107.	5.9	39
33	Vacancy engineering in nanostructured semiconductors for enhancing photocatalysis. Journal of Materials Chemistry A, 2021, 9, 17143-17172.	10.3	66
34	Observation of negative differential resistance in SiO2/Si heterostructures. Cell Reports Physical Science, 2021, 2, 100622.	5.6	2
35	Fermi-Surface Modulation of Graphene Synergistically Enhances the Open-Circuit Voltage and Quantum Efficiency of Photovoltaic Solar-Blind Ultraviolet Detectors. Journal of Physical Chemistry Letters, 2021, 12, 11106-11113.	4.6	5
36	Ti₃C₂: An Ideal Coâ€catalyst?. Angewandte Chemie - International Edition, 2020, 59, 1914-1918.	13.8	104

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37	Ti₃C₂: An Ideal Coâ€catalyst?. Angewandte Chemie, 2020, 132, 1930-1934.	2.0	21
38	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
39	In-plane enhanced epitaxy for step-flow AlN yielding a high-performance vacuum-ultraviolet photovoltaic detector. CrystEngComm, 2020, 22, 654-659.	2.6	19
40	Amorphous boron nitride for vacuum-ultraviolet photodetection. Applied Physics Letters, 2020, 117, .	3.3	24
41	Reversible photochromism for the enhancement of carrier separation in Zn1-Cu S. Journal of Alloys and Compounds, 2020, 844, 155880.	5.5	4
42	Raman Tensor of Layered SnS₂. Journal of Physical Chemistry Letters, 2020, 11, 10094-10099.	4.6	14
43	Silicon Nitride Deep-Ultraviolet Photoconductive Detector. IEEE Electron Device Letters, 2020, 41, 1316-1319.	3.9	9
44	Experimental Evidence on Stability of N Substitution for O in ZnO Lattice. Journal of Physical Chemistry Letters, 2020, 11, 8901-8907.	4.6	17
45	Quasiphonon polaritons. Heliyon, 2020, 6, e05277.	3.2	8
46	Bienenstockâ€“Cooperâ€“Munro Learning Rule Realized in Polysaccharide-Gated Synaptic Transistors with Tunable Threshold. ACS Applied Materials & Interfaces, 2020, 12, 50061-50067.	8.0	25
47	Ultraâ€Long Van Der Waals CdBr₂ Micro/Nanobelts. Small Methods, 2020, 4, 2000501.	8.6	8
48	X-ray radiation excited ultralong (>20,000 seconds) intrinsic phosphorescence in aluminum nitride single-crystal scintillators. Nature Communications, 2020, 11, 4351.	12.8	31
49	Room-Temperature Sputtered Aluminum-Doped Zinc Oxide for Semitransparent Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 9610-9617.	5.1	19
50	Dual Self-Trapped Exciton Emission with Ultrahigh Photoluminescence Quantum Yield in CsCu₂I₃ and Cs₃Cu₂I₅ Perovskite Single Crystals. Journal of Physical Chemistry C, 2020, 124, 20469-20476.	3.1	108
51	Data-driven computational prediction and experimental realization of exotic perovskite-related polar magnets. Npj Quantum Materials, 2020, 5, .	5.2	14
52	Raman Tensor of van der Waals MoSe₂. Journal of Physical Chemistry Letters, 2020, 11, 4311-4316.	4.6	28
53	Rocksalt-Zincblendeâ€“Wurtzite Mixed-Phase ZnO Crystals With High Activity as Photocatalysts for Visible-Light-Driven Water Splitting. Frontiers in Chemistry, 2020, 8, 351.	3.6	7
54	Raman tensor of layered WS2. Science China Materials, 2020, 63, 1848-1854.	6.3	17

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55	Vacuum-Ultraviolet Photon Detections. IScience, 2020, 23, 101145.	4.1	98
56	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
57	Raman tensor of layered black arsenic. Journal of Raman Spectroscopy, 2020, 51, 1324-1330.	2.5	19
58	Raman Tensor of Layered Td-WTe₂. Journal of Physical Chemistry C, 2020, 124, 16596-16603.	3.1	16
59	Multistep Thermodynamics Yielding Deep Ultraviolet Transparent Conductive Ga₂O₃ Films. Journal of Physical Chemistry C, 2020, 124, 16722-16727.	3.1	9
60	Near vacuum-ultraviolet aperiodic oscillation emission of AlN films. Science Bulletin, 2020, 65, 827-831.	9.0	21
61	Sensitive and Fast Direct Conversion Xâ€Ray Detectors Based on Singleâ€Crystalline HgI₂ Photoconductor and ZnO Nanowire Vacuum Diode. Advanced Materials Technologies, 2020, 5, 1901108.	5.8	15
62	Thermodynamic descriptions of the light rareâ€earth elements in silicon carbide ceramics. Journal of the American Ceramic Society, 2020, 103, 3812-3825.	3.8	16
63	Sulfate modified g-C₃N₄ with enhanced photocatalytic activity towards hydrogen evolution: the role of sulfate in photocatalysis. Physical Chemistry Chemical Physics, 2020, 22, 10116-10122.	2.8	13
64	Ligand Tailoring Oxide Colloidal Quantum Dots for Siliconâ€Integrated Ultraviolet Photodiode. Advanced Electronic Materials, 2020, 6, 1901238.	5.1	7
65	Ultra-high Photovoltage (2.45 V) Forming in Graphene Heterojunction via Quasi-Fermi Level Splitting Enhanced Effect. IScience, 2020, 23, 100818.	4.1	33
66	All-silicon photovoltaic detectors with deep ultraviolet selectivity. PhotoniX, 2020, 1, .	13.5	71
67	Raman tensor of layered black phosphorus. PhotoniX, 2020, 1, .	13.5	29
68	Vacuum-ultraviolet photodetectors. PhotoniX, 2020, 1, .	13.5	126
69	Raman tensor of layered MoS₂. Optics Letters, 2020, 45, 1313.	3.3	29
70	Deep-ultraviolet aperiodic-oscillation emission of AlGaN films. Optics Letters, 2020, 45, 1719.	3.3	8
71	Recent advances in exfoliation techniques of layered and non-layered materials for energy conversion and storage. Journal of Materials Chemistry A, 2019, 7, 23512-23536.	10.3	89
72	Electronic and optical properties of CsPb₂Br₅: A first-principles study. Modern Physics Letters B, 2019, 33, 1950266.	1.9	4

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73	High-Performance Solar Blind Ultraviolet Photodetector Based on Single Crystal Orientation Mg-Alloyed Ga₂O₃ Film Grown by a Nonequilibrium MOCVD Scheme. ACS Applied Electronic Materials, 2019, 1, 1653-1659.	4.3	31
74	Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. ACS Photonics, 2019, 6, 1869-1875.	6.6	49
75	Effect of interfacial recombination, bulk recombination and carrier mobility on the Jâ€“V hysteresis behaviors of perovskite solar cells: a drift-diffusion simulation study. Physical Chemistry Chemical Physics, 2019, 21, 17836-17845.	2.8	37
76	Effect of Cr/Al Atomic Ratio on the Oxidation Resistance in 1200Â°C Steam for the CrAlSiN Coatings Deposited on Zr Alloy Substrates. Jom, 2019, 71, 4839-4847.	1.9	7
77	Suppressing Sponge-Like Li Deposition via AlN-Modified Substrate for Stable Li Metal Anode. ACS Applied Materials & Interfaces, 2019, 11, 42261-42270.	8.0	9
78	Allâ€Inorganic CsCu₂I₃ Single Crystal with Highâ€PLQY (â‰ˆ15.7%) Intrinsic Whiteâ€Light Emission via Strongly Localized 1D Excitonic Recombination. Advanced Materials, 2019, 31, e1905079.	21.0	229
79	Predicted polymorph manipulation in an exotic double perovskite oxide. Journal of Materials Chemistry C, 2019, 7, 12306-12311.	5.5	7
80	Brushed Crystallized Ultrathin Oxides: Recrystallization and Deep-Ultraviolet Imaging Application. ACS Applied Electronic Materials, 2019, 1, 2166-2173.	4.3	15
81	Gallium oxide solar-blind ultraviolet photodetectors: a review. Journal of Materials Chemistry C, 2019, 7, 8753-8770.	5.5	353
82	The dependence of fluorescent decay time of ZnO:Ga crystal on instantaneous non-equilibrium carriers induced by charged particles. Journal of Luminescence, 2019, 214, 116520.	3.1	8
83	Inverted hysteresis in MAPbI3 perovskite solar cells induced by presetting bias voltage. Journal Physics D: Applied Physics, 2019, 52, 315103.	2.8	3
84	Balanced Photodetection in Mixed-Dimensional Phototransistors Consisting of CsPbBr3 Quantum Dots and Few-Layer MoS2. ACS Applied Nano Materials, 2019, 2, 2599-2605.	5.0	30
85	Ultrahigh EQE (15%) Solarâ€Blind UV Photovoltaic Detector with Organicâ€“Inorganic Heterojunction via Dual Builtâ€In Fields Enhanced Photogenerated Carrier Separation Efficiency Mechanism. Advanced Functional Materials, 2019, 29, 1900935.	14.9	106
86	Onâ€Demand Preparation of Î±â€Phaseâ€Dominated Tungsten Films for Highly Qualified Thermal Reflectors. Advanced Materials Interfaces, 2019, 6, 1900031.	3.7	6
87	Gamma-Bi₄V₂O₁₁ â€“ a layered oxide material for ion exchange in aqueous media. RSC Advances, 2019, 9, 8650-8653.	3.6	9
88	Oxides/graphene heterostructure for deep-ultraviolet photovoltaic photodetector. Carbon, 2019, 147, 427-433.	10.3	37
89	Ultrafast Photovoltaic-Type Deep Ultraviolet Photodetectors Using Hybrid Zero-/Two-Dimensional Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 8412-8418.	8.0	53
90	Correction to â€œVacuum-Ultraviolet-Oriented van der Waals Photovoltaicsâ€• ACS Photonics, 2019, 6, 3338-3338.	6.6	0

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91	Raman Tensor of WSe₂ via Angle-Resolved Polarized Raman Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 29337-29342.	3.1	23
92	Ultra-Robust Deep-UV Photovoltaic Detector Based on Graphene/(AlGa)2O3/GaN with High-Performance in Temperature Fluctuations. ACS Applied Materials & Interfaces, 2019, 11, 48071-48078.	8.0	36
93	Controllable phase transformation of titanium dioxide for the high performance polymer solar cells. Solar Energy Materials and Solar Cells, 2019, 192, 88-93.	6.2	2
94	Enabling PIEZOpotential in PIEZOelectric Semiconductors for Enhanced Catalytic Activities. Angewandte Chemie - International Edition, 2019, 58, 7526-7536.	13.8	234
95	Enabling PIEZOpotential in PIEZOelectric Semiconductors for Enhanced Catalytic Activities. Angewandte Chemie, 2019, 131, 7606-7616.	2.0	28
96	Ultrawideâ€Bandgap Amorphous MgGaO: Nonequilibrium Growth and Vacuum Ultraviolet Application. Advanced Optical Materials, 2019, 7, 1801272.	7.3	36
97	Graphene Interdigital Electrodes for Improving Sensitivity in a Ga₂O₃:Zn Deep-Ultraviolet Photoconductive Detector. ACS Applied Materials & Interfaces, 2019, 11, 1013-1020.	8.0	86
98	Enhanced performance of solar-blind ultraviolet photodetector based on Mg-doped amorphous gallium oxide film. Vacuum, 2019, 159, 204-208.	3.5	38
99	Vacuum ultraviolet photovoltaic arrays. Photonics Research, 2019, 7, 98.	7.0	57
100	Laser Tuning in van der Waals Crystals. ACS Nano, 2018, 12, 2001-2007.	14.6	31
101	Anisotropic temperatureâ€dependence of optical phonons in layered <scp>PbI₂</scp>. Journal of Raman Spectroscopy, 2018, 49, 775-779.	2.5	23
102	Crystal Imperfection Modulation Engineering for Functionalization of Wide Band Gap Semiconductor Radiation Detector. Advanced Electronic Materials, 2018, 4, 1700307.	5.1	8
103	Balanced Photodetection in One-Step Liquid-Phase-Synthesized CsPbBr₃ Micro-/Nanoflake Single Crystals. ACS Applied Materials & Interfaces, 2018, 10, 1865-1870.	8.0	60
104	Vacuum-Ultraviolet Photovoltaic Detector. ACS Nano, 2018, 12, 425-431.	14.6	193
105	High Wear Resistance of Magnetron Sputtered Cr80Si20N Nanocomposite Coatings: Almost Independent of Hardness. Tribology Letters, 2018, 66, 1.	2.6	4
106	Transient Radiation Imaging Based on a ZnO:Ga Single-Crystal Image Converter. Scientific Reports, 2018, 8, 4178.	3.3	11
107	Growth, characterization and optoelectronic applications of pure-phase large-area CsPb₂Br₅ flake single crystals. Journal of Materials Chemistry C, 2018, 6, 446-451.	5.5	88
108	Unintentionally doped hydrogen removal mechanism in Li doped ZnO. AIP Advances, 2018, 8, .	1.3	6

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109	Amorphous-MgGaO Film Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detector. ACS Applied Materials & Interfaces, 2018, 10, 42681-42687.	8.0	33
110	Improving the stability of methylammonium lead iodide perovskite solar cells by cesium doping. Thin Solid Films, 2018, 667, 40-47.	1.8	24
111	Aqueous Solution Growth of Millimeter-Sized Nongreen-Luminescent Wide Bandgap Cs₄PbBr₆ Bulk Crystal. Crystal Growth and Design, 2018, 18, 6393-6398.	3.0	59
112	High-sensitive and fast response to 255 nm deep-UV light of CH 3 NH 3 PbX 3 (X = Cl, Br, I) bulk crystals. Royal Society Open Science, 2018, 5, 180905.	2.4	25
113	Critical conditions for the formation of p-type ZnO with Li doping. RSC Advances, 2018, 8, 30868-30874.	3.6	18
114	Vacuum Ultraviolet Photodetection in Two-Dimensional Oxides. ACS Applied Materials & Interfaces, 2018, 10, 20696-20702.	8.0	68
115	Elucidation of â€œphase differenceâ€•in Raman tensor formalism. Photonics Research, 2018, 6, 709.	7.0	28
116	Vacuum-Ultraviolet Photodetection in Few-Layered h-BN. ACS Applied Materials & Interfaces, 2018, 10, 27116-27123.	8.0	106
117	One-step on-chip synthesis of highly-luminescent Cs4PbBr6 microcrystal. Materials Letters, 2018, 232, 118-121.	2.6	23
118	Vacuumâ€Ultraviolet Photovoltaic Detector with Improved Response Speed and Responsivity via Heating Annihilation Trap State Mechanism. Advanced Optical Materials, 2018, 6, 1800697.	7.3	102
119	High-Performance Graphene/Î²-Ga₂O₃ Heterojunction Deep-Ultraviolet Photodetector with Hot-Electron Excited Carrier Multiplication. ACS Applied Materials & Interfaces, 2018, 10, 22419-22426.	8.0	162
120	Sevenâ€Photonâ€Excited Upconversion Lasing at Room Temperature. Advanced Optical Materials, 2018, 6, 1800518.	7.3	14
121	Effects of photonic crystal structures on the imaging properties of a ZnO:Ga image converter. Optics Letters, 2018, 43, 5647.	3.3	8
122	Raman spectroscopy regulation in van der Waals crystals. Photonics Research, 2018, 6, 991.	7.0	25
123	Templateâ€Free Growth of Wellâ€Ordered Silver Nano Forest/Ceramic Metamaterial Films with Tunable Optical Responses. Advanced Materials, 2017, 29, 1605324.	21.0	42
124	Stable 6%-efficient Sb2Se3 solar cells with a ZnO buffer layer. Nature Energy, 2017, 2, .	39.5	441
125	Optimizing ultrathin Ag films for high performance oxide-metal-oxide flexible transparent electrodes through surface energy modulation and template-stripping procedures. Scientific Reports, 2017, 7, 44576.	3.3	59
126	An ultrafast-temporally-responsive flexible photodetector with high sensitivity based on high-crystallinity organicâ€“inorganic perovskite nanoflake. Nanoscale, 2017, 9, 12718-12726.	5.6	83

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127	A self-powered deep-ultraviolet photodetector based on an epitaxial Ga₂O₃/Ga:ZnO heterojunction. Journal of Materials Chemistry C, 2017, 5, 8688-8693.	5.5	167
128	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
129	Band alignment of MAPb(I1â€“xBrx)3 thin films by vacuum deposition. Applied Physics Letters, 2016, 109, .	3.3	9
130	A possible high-mobility signal in bulk MoTe2: Temperature independent weak phonon decay. AIP Advances, 2016, 6, .	1.3	13
131	Interface electronic properties of co-evaporated MAPbI3 on ZnO(0001): In situ X-ray photoelectron spectroscopy and ultraviolet photoelectron spectroscopy study. Applied Physics Letters, 2016, 108, .	3.3	37
132	Solar-blind-ultraviolet extraordinary transmission for ultrasensitive photoconductive detector based on plasmonic subwavelength interdigital electrodes. Journal Physics D: Applied Physics, 2016, 49, 505106.	2.8	0
133	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
134	A Strategy of Transparent Conductive Oxide for UV Focal Plane Array Detector: Twoâ€Step Thermodynamic Process. Advanced Electronic Materials, 2016, 2, 1600320.	5.1	25
135	Highâ€Crystalline 2D Layered PbI₂ with Ultrasmooth Surface: Liquidâ€Phase Synthesis and Application of Highâ€Speed Photon Detection. Advanced Electronic Materials, 2016, 2, 1600291.	5.1	98
136	Mechanism of adsorption affinity and capacity of Mg(OH)₂ to uranyl revealed by molecular dynamics simulation. RSC Advances, 2016, 6, 31507-31513.	3.6	10
137	2D Materials: High-Crystalline 2D Layered PbI2 with Ultrasmooth Surface: Liquid-Phase Synthesis and Application of High-Speed Photon Detection (Adv. Electron. Mater. 11/2016). Advanced Electronic Materials, 2016, 2, .	5.1	3
138	In Situ Characterization of the Local Work Function along Individual Free Standing Nanowire by Electrostatic Deflection. Scientific Reports, 2016, 6, 21270.	3.3	7
139	Photodetectors: Lowâ€Dimensional Structure Vacuumâ€Ultravioletâ€Sensitive (Î» < 200 nm) Photodetector with Fastâ€Response Speed Based on Highâ€Quality AlN Micro/Nanowire (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	21.0	3
140	Lowâ€Dimensional Structure Vacuumâ€Ultravioletâ€Sensitive (Î» < 200 nm) Photodetector with Fastâ€Response Speed Based on Highâ€Quality AlN Micro/Nanowire. Advanced Materials, 2015, 27, 3921-3927.	21.0	208
141	Crystal Growth of Î±-HgI₂ by the Temperature Difference Method for High Sensitivity X-ray Detection. Crystal Growth and Design, 2015, 15, 3383-3387.	3.0	14
142	The role of Be incorporation in the modulation of the N doping ZnO. Journal of Alloys and Compounds, 2015, 622, 719-724.	5.5	16
143	Radical macro spatial separation: a novel way to enhance the photocatalytic efficiency. RSC Advances, 2015, 5, 24455-24459.	3.6	1
144	[Ru(bpy) 3] 2+ -mediated photoelectrochemical detection of bisphenol A on a molecularly imprinted polypyrrole modified SnO 2 electrode. Analytica Chimica Acta, 2015, 887, 59-66.	5.4	34

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145	High electron mobility ZnO film for high-performance inverted polymer solar cells. Applied Physics Letters, 2015, 106, .	3.3	15
146	ZnO nanowires array grown on Ga-doped ZnO single crystal for dye-sensitized solar cells. Scientific Reports, 2015, 5, 11499.	3.3	18
147	Layered ultrathin PbI₂ single crystals for high sensitivity flexible photodetectors. Journal of Materials Chemistry C, 2015, 3, 4402-4406.	5.5	119
148	Growth of vertically aligned ZnO nanowire arrays on ZnO single crystals. Materials Letters, 2015, 154, 40-43.	2.6	18
149	Template-synthesized ultra-thin molecularly imprinted polymers membrane for the selective preconcentration of dyes. Journal of Materials Chemistry A, 2015, 3, 10959-10968.	10.3	35
150	Raman tensor of AlN bulk single crystal. Photonics Research, 2015, 3, 38.	7.0	66
151	Enhanced visible light photocatalytic H2 production activity of g-C3N4 via carbon fiber. Applied Surface Science, 2015, 358, 287-295.	6.1	95
152	Dark current suppression of MgZnO metal-semiconductor-metal solar-blind ultraviolet photodetector by asymmetric electrode structures. Optics Letters, 2014, 39, 375.	3.3	10
153	Grain boundary barrier modification due to coupling effect of crystal polar field and water molecular dipole in ZnO-based structures. Applied Physics Letters, 2014, 104, 242114.	3.3	5
154	Crystal growth by oriented attachment: kinetic models and control factors. CrystEngComm, 2014, 16, 1419.	2.6	162
155	Schottky or Ohmic Metalâ€“Semiconductor Contact: Influence on Photocatalytic Efficiency of Ag/ZnO and Pt/ZnO Model Systems. ChemSusChem, 2014, 7, 101-104.	6.8	103
156	ZnO nanoflower-based photoelectrochemical DNAzyme sensor for the detection of Pb2+. Biosensors and Bioelectronics, 2014, 56, 243-249.	10.1	109
157	Subsolidus phase relation in the Bi 2 O 3 â€”Fe 2 O 3 â€”La 2 O 3 system. Chinese Physics B, 2014, 23, 026402.	1.4	2
158	Subsolidus phase relationships and photocatalytic properties in the ternary system TiO2â€“Bi2O3â€“V2O5. Journal of Alloys and Compounds, 2014, 583, 285-290.	5.5	20
159	Formation of AgGaS2 nano-pyramids from Ag2S nanospheres through intermediate Ag2Sâ€“AgGaS2 heterostructures and AgGaS2 sensitized Mn2+ emission. Nanoscale, 2014, 6, 2340.	5.6	33
160	Specific Detection of Alpha-Fetoprotein Using AlGaAs/GaAs High Electron Mobility Transistors. IEEE Electron Device Letters, 2014, 35, 333-335.	3.9	11
161	Reversible self-assembly of MxS (M = Cu, Ag) nanocrystals through ligand exchange. CrystEngComm, 2014, 16, 9478-9481.	2.6	7
162	A situ hydrothermal synthesis of SrTiO3/TiO2 heterostructure nanosheets with exposed (001) facets for enhancing photocatalytic degradation activity. Applied Surface Science, 2014, 319, 68-74.	6.1	67

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