Qiaoliang Bao

List of Publications by Year
in descending order

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		4370	2940
292	37,895	86	189
papers	citations	h-index	g-index

308	308	308	38707
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphene oxide as a chemically tunable platform for optical applications. Nature Chemistry, 2010, 2, 1015-1024.	6.6	2,966
2	Atomicâ€Łayer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. Advanced Functional Materials, 2009, 19, 3077-3083.	7.8	2,310
3	Graphene Photonics, Plasmonics, and Broadband Optoelectronic Devices. ACS Nano, 2012, 6, 3677-3694.	7.3	1,749
4	Hydrothermal Dehydration for the â€œGreenâ€•Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. Chemistry of Materials, 2009, 21, 2950-2956.	3.2	1,430
5	The chemistry of graphene. Journal of Materials Chemistry, 2010, 20, 2277.	6.7	1,350
6	Broadband graphene polarizer. Nature Photonics, 2011, 5, 411-415.	15.6	961
7	Electrocatalytically Active Grapheneâ€“Porphyrin MOF Composite for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2012, 134, 6707-6713.	6.6	951
8	Mechanically exfoliated black phosphorus as a new saturable absorber for both Q-switching and Mode-locking laser operation. Optics Express, 2015, 23, 12823.	1.7	866
9	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
10	Z-scan measurement of the nonlinear refractive index of graphene. Optics Letters, 2012, 37, 1856.	1.7	589
11	Carbon nanotube/polyaniline composite as anode material for microbial fuel cells. Journal of Power Sources, 2007, 170, 79-84.	4.0	564
12	Broadband Nonlinear Photonics in Fewâ€Łayer MXene Ti₃C₂T_x (T =) Tj ETQq0 0 0 rgBT /Overlock	4.4	550
13	High-Yield Synthesis of Few-Layer Graphene Flakes through Electrochemical Expansion of Graphite in Propylene Carbonate Electrolyte. Journal of the American Chemical Society, 2011, 133, 8888-8891.	6.6	539
14	Probing the catalytic activity of porous graphene oxide and the origin of this behaviour. Nature Communications, 2012, 3, 1298.	5.8	538
15	Electrochemical Delamination of CVD-Grown Graphene Film: Toward the Recyclable Use of Copper Catalyst. ACS Nano, 2011, 5, 9927-9933.	7.3	529
16	Large energy mode locking of an erbium-doped fiber laser with atomic layer graphene. Optics Express, 2009, 17, 17630.	1.7	512
17	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. Nature, 2018, 562, 557-562.	13.7	506
18	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. Nature Communications, 2019, 10, 28.	5.8	475

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19	Graphene mode locked, wavelength-tunable, dissipative soliton fiber laser. Applied Physics Letters, 2010, 96, .	1.5	456
20	Large energy soliton erbium-doped fiber laser with a graphene-polymer composite mode locker. Applied Physics Letters, 2009, 95, .	1.5	450
21	Grapheneâ€“Polymer Nanofiber Membrane for Ultrafast Photonics. Advanced Functional Materials, 2010, 20, 782-791.	7.8	434
22	Topological polaritons and photonic magic angles in twisted Î±-MoO3 bilayers. Nature, 2020, 582, 209-213.	13.7	413
23	Monolayer graphene as a saturable absorber in a mode-locked laser. Nano Research, 2011, 4, 297-307.	5.8	408
24	Structure-Directing Role of Graphene in the Synthesis of Metalâ^'Organic Framework Nanowire. Journal of the American Chemical Society, 2010, 132, 14487-14495.	6.6	403
25	Nitrogenâ€Doped Nanoporous Carbon/Graphene Nanoâ€Sandwiches: Synthesis and Application for Efficient Oxygen Reduction. Advanced Functional Materials, 2015, 25, 5768-5777.	7.8	384
26	Scalable Production of a Few-Layer MoS₂/WS₂ Vertical Heterojunction Array and Its Application for Photodetectors. ACS Nano, 2016, 10, 573-580.	7.3	362
27	Two-Dimensional CH₃NH₃PbI₃ Perovskite: Synthesis and Optoelectronic Application. ACS Nano, 2016, 10, 3536-3542.	7.3	359
28	Broadband Photodetectors Based on Grapheneâ€“Bi₂Te₃ Heterostructure. ACS Nano, 2015, 9, 1886-1894.	7.3	338
29	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. Nanotechnology, 2009, 20, 085203.	1.3	323
30	Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbIBr₂ Solar Cells. Advanced Energy Materials, 2017, 7, 1700946.	10.2	318
31	Microstructuring of Graphene Oxide Nanosheets Using Direct Laser Writing. Advanced Materials, 2010, 22, 67-71.	11.1	311
32	A Graphene Oxideâ€“Organic Dye Ionic Complex with DNAâ€Sensing and Opticalâ€Limiting Properties. Angewandte Chemie - International Edition, 2010, 49, 6549-6553.	7.2	304
33	Two-Dimensional CH₃NH₃PbI₃ Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. ACS Applied Materials & Interfaces, 2017, 9, 12759-12765.	4.0	296
34	Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. Advanced Science, 2017, 4, 1600305.	5.6	285
35	High-Throughput Synthesis of Graphene by Intercalationâ^'Exfoliation of Graphite Oxide and Study of Ionic Screening in Graphene Transistor. ACS Nano, 2009, 3, 3587-3594.	7.3	263
36	Photonics and optoelectronics of two-dimensional materials beyond graphene. Nanotechnology, 2016, 27, 462001.	1.3	259

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37	Synthesis, properties, and optical applications of low-dimensional perovskites. Chemical Communications, 2016, 52, 13637-13655.	2.2	252
38	Hybrid Grapheneâ€“Perovskite Phototransistors with Ultrahigh Responsivity and Gain. Advanced Optical Materials, 2015, 3, 1389-1396.	3.6	240
39	Present perspectives of broadband photodetectors based on nanobelts, nanoribbons, nanosheets and the emerging 2D materials. Nanoscale, 2016, 8, 6410-6434.	2.8	233
40	Well-Aligned Cone-Shaped Nanostructure of Polypyrrole/RuO₂ and Its Electrochemical Supercapacitor. Journal of Physical Chemistry C, 2008, 112, 14843-14847.	1.5	231
41	Dissipative soliton operation of an ytterbium-doped fiber laser mode locked with atomic multilayer graphene. Optics Letters, 2010, 35, 3622.	1.7	230
42	Black Phosphorusâ€“Polymer Composites for Pulsed Lasers. Advanced Optical Materials, 2015, 3, 1447-1453.	3.6	228
43	Flexible, Printable Softâ€Xâ€Ray Detectors Based on Allâ€Inorganic Perovskite Quantum Dots. Advanced Materials, 2019, 31, e1901644.	11.1	221
44	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. Nature Communications, 2017, 8, 14482.	5.8	219
45	Compact graphene mode-locked wavelength-tunable erbium-doped fiber lasers: from all anomalous dispersion to all normal dispersion. Laser Physics Letters, 0, 7, 591-596.	0.6	214
46	Grapheneâ€“Bi₂Te₃ Heterostructure as Saturable Absorber for Short Pulse Generation. ACS Photonics, 2015, 2, 832-841.	3.2	208
47	Synthesis and Transfer of Large-Area Monolayer WS₂ Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. ACS Nano, 2015, 9, 6178-6187.	7.3	200
48	Near-Infrared Photodetectors Based on MoTe₂ /Graphene Heterostructure with High Responsivity and Flexibility. Small, 2017, 13, 1700268.	5.2	200
49	Solutionâ€Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. Advanced Functional Materials, 2016, 26, 864-871.	7.8	187
50	Highly Efficient and Air-Stable Infrared Photodetector Based on 2D Layered Grapheneâ€“Black Phosphorus Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 36137-36145.	4.0	185
51	Ultrafast recovery time and broadband saturable absorption properties of black phosphorus suspension. Applied Physics Letters, 2015, 107, .	1.5	168
52	Photonics and Optoelectronics of 2D Metalâ€Halide Perovskites. Small, 2018, 14, e1800682.	5.2	168
53	Seleniumâ€Doped Black Phosphorus for Highâ€Responsivity 2D Photodetectors. Small, 2016, 12, 5000-5007.	5.2	156
54	High Efficiency Mesoscopic Solar Cells Using CsPbI₃ Perovskite Quantum Dots Enabled by Chemical Interface Engineering. Journal of the American Chemical Society, 2020, 142, 3775-3783.	6.6	156

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55	Highly responsive MoS2 photodetectors enhanced by graphene quantum dots. Scientific Reports, 2015, 5, 11830.	1.6	155
56	Ultrathin 2D Transition Metal Carbides for Ultrafast Pulsed Fiber Lasers. ACS Photonics, 2018, 5, 1808-1816.	3.2	148
57	Polarized Emission and Optical Waveguide in Crystalline Perylene Diimide Microwires. Advanced Materials, 2010, 22, 3661-3666.	11.1	146
58	Facile Fabrication of Highâ€Ðensity Subâ€1â€nm Gaps from Au Nanoparticle Monolayers as Reproducible SERS Substrates. Advanced Functional Materials, 2016, 26, 8137-8145.	7.8	143
59	Strong Depletion in Hybrid Perovskite pâ€“n Junctions Induced by Local Electronic Doping. Advanced Materials, 2018, 30, e1705792.	11.1	141
60	Vector dissipative solitons in graphene mode locked fiber lasers. Optics Communications, 2010, 283, 3334-3338.	1.0	138
61	High-Performance Thin-Film Transistors from Solution-Processed Dithienothiophene Polymer Semiconductor Nanoparticles. Chemistry of Materials, 2008, 20, 2057-2059.	3.2	136
62	Template-Free Electrochemical Synthesis of Superhydrophilic Polypyrrole Nanofiber Network. Macromolecules, 2008, 41, 7053-7057.	2.2	135
63	Giant Plasmene Nanosheets, Nanoribbons, and Origami. ACS Nano, 2014, 8, 11086-11093.	7.3	134
64	Fabrication of Strongly Fluorescent Quantum Dotâ^'Polymer Composite in Aqueous Solution. Chemistry of Materials, 2007, 19, 3773-3779.	3.2	133
65	Slow cooling and efficient extraction of C-exciton hot carriers in MoS2 monolayer. Nature Communications, 2017, 8, 13906.	5.8	132
66	Highâ€Gain Grapheneâ€Titanium Oxide Photoconductor Made from Inkjet Printable Ionic Solution. Advanced Materials, 2010, 22, 5265-5270.	11.1	131
67	Broad spectral tuning of ultra-low-loss polaritons in a van der Waals crystal by intercalation. Nature Materials, 2020, 19, 964-968.	13.3	129
68	Soliton compression of the erbium-doped fiber laser weakly started mode-locking by nanoscale p-type Bi2Te3topological insulator particles. Laser Physics Letters, 2014, 11, 055107.	0.6	125
69	Shape Evolution and Magnetic Properties of Cobalt Sulfide. Crystal Growth and Design, 2008, 8, 3745-3749.	1.4	123
70	Long range intrinsic ferromagnetism in two dimensional materials and dissipationless future technologies. Applied Physics Reviews, 2018, 5, .	5.5	119
71	Band structure engineering in metal halide perovskite nanostructures for optoelectronic applications. Nano Materials Science, 2019, 1, 268-287.	3.9	118
72	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Coâ€“MoS2. Nano-Micro Letters, 2019, 11, 102.	14.4	114

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73	Novel porous anatase TiO2 nanorods and their high lithium electroactivity. Electrochemistry Communications, 2007, 9, 1233-1238.	2.3	112
74	Wafer-Scale Fabrication of Two-Dimensional PtS₂/PtSe₂ Heterojunctions for Efficient and Broad band Photodetection. ACS Applied Materials & Interfaces, 2018, 10, 40614-40622.	4.0	110
75	Toward High Throughput Interconvertible Graphane-to-Graphene Growth and Patterning. ACS Nano, 2010, 4, 6146-6152.	7.3	109
76	Graphene as Atomic Template and Structural Scaffold in the Synthesis of Grapheneâ"Organic Hybrid Wire with Photovoltaic Properties. ACS Nano, 2010, 4, 6180-6186.	7.3	109
77	Controlled Hydrogenation of Graphene Sheets and Nanoribbons. ACS Nano, 2011, 5, 888-896.	7.3	105
78	Preparation and Characterization of a Novel Cocrystal Explosive. Crystal Growth and Design, 2011, 11, 1759-1765.	1.4	102
79	A highly efficient thermo-optic microring modulator assisted by graphene. Nanoscale, 2015, 7, 20249-20255.	2.8	99
80	Infrared Permittivity of the Biaxial van der Waals Semiconductor Î±â€MoO₃ from Nearâ€and Farâ€Field Correlative Studies. Advanced Materials, 2020, 32, e1908176.	11.1	99
81	Lattice -Mismatch-Induced Ultrastable 1T-Phase MoS₂â€"Pd/Au for Plasmon-Enhanced Hydrogen Evolution. Nano Letters, 2019, 19, 2758-2764.	4.5	98
82	Strain Relaxation of Monolayer WS₂ on Plastic Substrate. Advanced Functional Materials, 2016, 26, 8707-8714.	7.8	97
83	Solutionâ€Processed Extremely Efficient Multicolor Perovskite Lightâ€Emitting Diodes Utilizing Doped Electron Transport Layer. Advanced Functional Materials, 2017, 27, 1606874.	7.8	96
84	Fieldâ€Induced nâ€Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. Advanced Functional Materials, 2017, 27, 1702211.	7.8	95
85	Mechanically-Assisted Electrochemical Production of Graphene Oxide. Chemistry of Materials, 2016, 28, 8429-8438.	3.2	91
86	Perovskite CsPbX₃: A Promising Nonlinear Optical Material and Its Applications for Ambient Allâ€Optical Switching with Enhanced Stability. Advanced Optical Materials, 2018, 6, 1800400.	3.6	90
87	Fewâ€Layer Topological Insulator for Allâ€Optical Signal Processing Using the Nonlinear Kerr Effect. Advanced Optical Materials, 2015, 3, 1769-1778.	3.6	87
88	Room-Temperature Synthesis of Soluble Carbon Nanotubes by the Sonication of Graphene Oxide Nanosheets. Journal of the American Chemical Society, 2009, 131, 16832-16837.	6.6	85
89	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. Journal of Physical Chemistry C, 2008, 112, 3612-3618.	1.5	83
90	Synthesis and Electrical Transport of Novel Channel-StructuredÎ²-AgVO3. Small, 2007, 3, 1174-1177.	5.2	82

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91	Hybridized Hyperbolic Surface Phonon Polaritons at Î±-MoO₃ and Polar Dielectric Interfaces. Nano Letters, 2021, 21, 3112-3119.	4.5	79
92	Graphene surface plasmons at the near-infrared optical regime. Scientific Reports, 2014, 4, 6559.	1.6	78
93	Atomically thin lateral pâ€“n junction photodetector with large effective detection area. 2D Materials, 2016, 3, 041001.	2.0	78
94	Band Structure Engineering in 2D Materials for Optoelectronic Applications. Advanced Materials Technologies, 2018, 3, 1800072.	3.0	78
95	Artificial Metaphotonics Born Naturally in Two Dimensions. Chemical Reviews, 2020, 120, 6197-6246.	23.0	78
96	Wavelength-tunable waveguides based on polycrystalline organicâ€“inorganic perovskite microwires. Nanoscale, 2016, 8, 6258-6264.	2.8	76
97	Optically tuned terahertz modulator based on annealed multilayer MoS2. Scientific Reports, 2016, 6, 22899.	1.6	74
98	Direct Observation of 2D Electrostatics and Ohmic Contacts in Template-Grown Graphene/WS₂ Heterostructures. ACS Nano, 2017, 11, 2785-2793.	7.3	74
99	Raman Spectroscopy of Two-Dimensional Bi2TexSe3 â^' x Platelets Produced by Solvothermal Method. Materials, 2015, 8, 5007-5017.	1.3	68
100	Reversible Structural Swellâ€“Shrink and Recoverable Optical Properties in Hybrid Inorganicâ€“Organic Perovskite. ACS Nano, 2016, 10, 7031-7038.	7.3	68
101	Pulsed Lasers Employing Solutionâ€Processed Plasmonic Cu_{3â^'}_xP Colloidal Nanocrystals. Advanced Materials, 2016, 28, 3535-3542.	11.1	68
102	Effects of edge on graphene plasmons as revealed by infrared nanoimaging. Light: Science and Applications, 2017, 6, e16204-e16204.	7.7	68
103	The Roadmap of Grapheneâ€Based Optical Biochemical Sensors. Advanced Functional Materials, 2017, 27, 1603918.	7.8	68
104	A hydrothermal anvil made of graphene nanobubbles on diamond. Nature Communications, 2013, 4, 1556.	5.8	67
105	Bias-switchable negative and positive photoconductivity in 2D FePS₃ ultraviolet photodetectors. Nanotechnology, 2018, 29, 244001.	1.3	67
106	Few-Layer Platinum Diselenide as a New Saturable Absorber for Ultrafast Fiber Lasers. ACS Applied Materials & Interfaces, 2018, 10, 21534-21540.	4.0	67
107	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. ACS Nano, 2019, 13, 12987-12995.	7.3	67
108	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. Nature Communications, 2020, 11, 6086.	5.8	67

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109	Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. Nature Communications, 2017, 8, 613.	5.8	66
110	Actively Tunable Visible Surface Plasmons in Bi₂Te₃ and their Energyâ€Harvesting Applications. Advanced Materials, 2016, 28, 3138-3144.	11.1	65
111	Ultraâ€Broadband Flexible Photodetector Based on Topological Crystalline Insulator SnTe with High Responsivity. Small, 2018, 14, e1802598.	5.2	65
112	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. Light: Science and Applications, 2020, 9, 137.	7.7	65
113	2Dâ€“Materialsâ€Based Quantum Dots: Gateway Towards Nextâ€Generation Optical Devices. Advanced Optical Materials, 2017, 5, 1700257.	3.6	64
114	Flexible Broadband Graphene Photodetectors Enhanced by Plasmonic Cu_{3â^’}_xP Colloidal Nanocrystals. Small, 2017, 13, 1701881.	5.2	63
115	Highâ€Yield Electrochemical Production of Largeâ€Sized and Thinly Layered NiPS₃ Flakes for Overall Water Splitting. Small, 2019, 15, e1902427.	5.2	62
116	A Broadband Optical Modulator Based on a Graphene Hybrid Plasmonic Waveguide. Journal of Lightwave Technology, 2016, 34, 4948-4953.	2.7	60
117	High performance photodetector based on 2D CH₃NH₃PbI₃ perovskite nanosheets. Journal Physics D: Applied Physics, 2017, 50, 094002.	1.3	60
118	Theoretical analysis of hot electron dynamics in nanorods. Scientific Reports, 2015, 5, 12140.	1.6	59
119	Bottom-up growth of homogeneous MoirÃ© superlattices in bismuth oxychloride spiral nanosheets. Nature Communications, 2019, 10, 4472.	5.8	59
120	Controllable Synthesis of Doped Graphene and Its Applications. Small, 2014, 10, 2975-2991.	5.2	58
121	Blocks of molybdenum ditelluride: A high rate anode for sodium-ion battery and full cell prototype study. Nano Energy, 2019, 64, 103951.	8.2	57
122	Electric field induced growth of well aligned carbon nanotubes from ethanol flames. Nanotechnology, 2006, 17, 1016-1021.	1.3	56
123	Observation of large nonlinear responses in a graphene-Bi2Te3 heterostructure at a telecommunication wavelength. Applied Physics Letters, 2016, 108, .	1.5	56
124	Ultra-broadband Nonlinear Saturable Absorption for Two-dimensional Bi2TexSe3â^’x Nanosheets. Scientific Reports, 2016, 6, 33070.	1.6	55
125	Using the Graphene MoirÃ© Pattern for the Trapping of C₆₀ and Homoepitaxy of Graphene. ACS Nano, 2012, 6, 944-950.	7.3	54
126	Back-contacted hybrid organicâ€“inorganic perovskite solar cells. Journal of Materials Chemistry C, 2016, 4, 3125-3130.	2.7	54

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127	Controlled Growth of Monocrystalline Organoâ€Lead Halide Perovskite and Its Application in Photonic Devices. Angewandte Chemie - International Edition, 2017, 56, 12486-12491.	7.2	54
128	High Performance Lithiumâ€Ion Batteries Using Layered 2Hâ€MoTe₂ as Anode. Small, 2020, 16, e2002669.	5.2	54
129	Chemical switching of low-loss phonon polaritons in Î±-MoO3 by hydrogen intercalation. Nature Communications, 2020, 11, 2646.	5.8	54
130	Graphene Nanobubbles: A New Optical Nonlinear Material. Advanced Optical Materials, 2015, 3, 744-749.	3.6	52
131	Solvothermal Growth of Bismuth Chalcogenide Nanoplatelets by the Oriented Attachment Mechanism: An in Situ PXRD Study. Chemistry of Materials, 2015, 27, 3471-3482.	3.2	51
132	Manipulating polaritons at the extreme scale in van der Waals materials. Nature Reviews Physics, 2022, 4, 578-594.	11.9	51
133	Electrical transport and photovoltaic effects of coreâ€“shell CuO/C60nanowire heterostructure. Nanotechnology, 2009, 20, 065203.	1.3	50
134	Graphene-Bi2Te3 Heterostructure as Broadband Saturable Absorber for Ultra-Short Pulse Generation in Er-Doped and Yb-Doped Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 195-199.	1.9	49
135	Ultrathin Ga₂O₃ Glass: A Largeâ€Scale Passivation and Protection Material for Monolayer WS₂. Advanced Materials, 2021, 33, e2005732.	11.1	49
136	Electrochemical performance of graphene and copper oxide composites synthesized from a metalâ€“organic framework (Cu-MOF). RSC Advances, 2013, 3, 19051.	1.7	46
137	Monolayer graphene photonic metastructures: Giant Faraday rotation and nearly perfect transmission. Physical Review B, 2013, 88, .	1.1	46
138	Profound Effect of Substrate Hydroxylation and Hydration on Electronic and Optical Properties of Monolayer MoS₂. Nano Letters, 2015, 15, 3096-3102.	4.5	45
139	Back-contact perovskite solar cells with honeycomb-like charge collecting electrodes. Nano Energy, 2018, 50, 710-716.	8.2	44
140	Spatially Modulating the Fluorescence Color of Mixed-Halide Perovskite Nanoplatelets through Direct Femtosecond Laser Writing. ACS Applied Materials & Interfaces, 2019, 11, 26017-26023.	4.0	44
141	Broadband Nonlinear Photonics in Fewâ€Layer MXene Ti₃C₂T_x (T =) Tj ETQq1 1 0.784314 rgB	4.4	43
142	Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. ACS Photonics, 2016, 3, 1986-1992.	3.2	42
143	In situ observation of the thermal stability of black phosphorus. 2D Materials, 2017, 4, 025001.	2.0	42
144	Stationary current generated from photocycle of a hybrid bacteriorhodopsin/quantum dot bionanosystem. Applied Physics Letters, 2007, 91, 223901.	1.5	41

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145	Role of Surface Recombination in Halide Perovskite Nanoplatelets. ACS Applied Materials & Interfaces, 2018, 10, 31586-31593.	4.0	41
146	Capillary-bridge mediated assembly of aligned perovskite quantum dots for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5954-5961.	2.7	41
147	Selective laser sintering of TiO₂ nanoparticle film on plastic conductive substrate for highly efficient flexible dye-sensitized solar cell application. Journal of Materials Chemistry A, 2014, 2, 4566-4573.	5.2	40
148	Degradation of Two-Dimensional CH₃NH₃PbI₃ Perovskite and CH₃NH₃PbI₃/Graphene Heterostructure. ACS Applied Materials & Interfaces, 2018, 10, 24258-24265.	4.0	40
149	Tailoring Topological Transitions of Anisotropic Polaritons by Interface Engineering in Biaxial Crystals. Nano Letters, 2022, 22, 4260-4268.	4.5	40
150	Covalently linked DNA/protein multilayered film for controlled DNA release. Journal of Colloid and Interface Science, 2007, 314, 80-88.	5.0	39
151	Germanium Nanosheets with Dirac Characteristics as a Saturable Absorber for Ultrafast Pulse Generation. Advanced Materials, 2021, 33, e2101042.	11.1	38
152	Lithium Insertion in Channel-Structured Î²-AgVO₃: In Situ Raman Study and Computer Simulation. Chemistry of Materials, 2007, 19, 5965-5972.	3.2	37
153	Anisotropic polaritons in van der Waals materials. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 777-790.	8.5	36
154	Focusing of in-plane hyperbolic polaritons in van der Waals crystals with tailored infrared nanoantennas. Science Advances, 2021, 7, eabj0127.	4.7	36
155	Graphene-Based Transparent Electrodes for Hybrid Solar Cells. Frontiers in Materials, 2014, 1, .	1.2	35
156	Bilayer Bismuth Selenide nanoplatelets based saturable absorber for ultra-short pulse generation (Invited). Optics Communications, 2017, 395, 55-60.	1.0	35
157	The Lightâ€Induced Fieldâ€Effect Solar Cell Concept â€“ Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. Advanced Materials, 2017, 29, 1606370.	11.1	35
158	Highly Stable Pdâ€Based Catalytic Nanoarchitectures for Low Temperature Fuel Cells. Fuel Cells, 2008, 8, 429-435.	1.5	34
159	Construction of porous N-doped graphene layer for efficient oxygen reduction reaction. Chemical Engineering Science, 2019, 194, 36-44.	1.9	34
160	Largeâ€Scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector. Advanced Electronic Materials, 2016, 2, 1600077.	2.6	33
161	Cavity QED analysis of an exciton-plasmon hybrid molecule via the generalized nonlocal optical response method. Physical Review B, 2017, 95, .	1.1	33
162	Photonic surface waves enabled perfect infrared absorption by monolayer graphene. Nano Energy, 2018, 48, 161-169.	8.2	33

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163	Organic Thin-Film Transistors Processed from Relatively Nontoxic, Environmentally Friendlier Solvents. Chemistry of Materials, 2010, 22, 5747-5753.	3.2	31
164	Optoelectronic investigation of monolayer MoS2/WSe2 vertical heterojunction photoconversion devices. Nano Energy, 2016, 30, 260-266.	8.2	31
165	Synthesis and optical applications of low dimensional metal-halide perovskites. Nanotechnology, 2020, 31, 152002.	1.3	31
166	Efficiency enhancement of TiO2 nanodendrite array electrodes in CuInS2 quantum dot sensitized solar cells. Electrochimica Acta, 2013, 111, 755-761.	2.6	30
167	Illuminationâ€Induced Halide Segregation in Gradient Bandgap Mixedâ€Halide Perovskite Nanoplatelets. Advanced Optical Materials, 2018, 6, 1801107.	3.6	30
168	Flexible photodetectors based on reticulated SWNT/perovskite quantum dot heterostructures with ultrahigh durability. Nanoscale, 2019, 11, 8020-8026.	2.8	30
169	Electric-field-induced microstructural transformation of carbon nanotubes. Applied Physics Letters, 2006, 89, 063124.	1.5	29
170	Theoretical and Experimental Studies of Electronic Transport of Dithienothiophene. Journal of Physical Chemistry C, 2009, 113, 12530-12537.	1.5	28
171	Reliable Synthesis of Largeâ€Area Monolayer WS₂ Single Crystals, Films, and Heterostructures with Extraordinary Photoluminescence Induced by Water Intercalation. Advanced Optical Materials, 2018, 6, 1701347.	3.6	28
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