

Qiaoliang Bao

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277
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308
ext. papers

34,324
ext. citations

10.3
avg, IF

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L-index

#	Paper	IF	Citations
277	Graphene oxide as a chemically tunable platform for optical applications. <i>Nature Chemistry</i> , 2010 , 2, 1015-24	15.24	2633
276	Atomic-Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. <i>Advanced Functional Materials</i> , 2009 , 19, 3077-3083	15.6	1875
275	Graphene photonics, plasmonics, and broadband optoelectronic devices. <i>ACS Nano</i> , 2012 , 6, 3677-94	16.7	1468
274	Hydrothermal Dehydration for the Green Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. <i>Chemistry of Materials</i> , 2009 , 21, 2950-2956	9.6	1285
273	The chemistry of graphene. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2277		1222
272	Electrocatalytically active graphene-porphyrin MOF composite for oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6707-13	16.4	817
271	Broadband graphene polarizer. <i>Nature Photonics</i> , 2011 , 5, 411-415	33.9	806
270	Mechanically exfoliated black phosphorus as a new saturable absorber for both Q-switching and Mode-locking laser operation. <i>Optics Express</i> , 2015 , 23, 12823-33	3.3	734
269	Z-scan measurement of the nonlinear refractive index of graphene. <i>Optics Letters</i> , 2012 , 37, 1856-8	3	502
268	Carbon nanotube/polyaniline composite as anode material for microbial fuel cells. <i>Journal of Power Sources</i> , 2007 , 170, 79-84	8.9	500
267	High-yield synthesis of few-layer graphene flakes through electrochemical expansion of graphite in propylene carbonate electrolyte. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8888-91	16.4	483
266	Probing the catalytic activity of porous graphene oxide and the origin of this behaviour. <i>Nature Communications</i> , 2012 , 3, 1298	17.4	465
265	Electrochemical delamination of CVD-grown graphene film: toward the recyclable use of copper catalyst. <i>ACS Nano</i> , 2011 , 5, 9927-33	16.7	451
264	Large energy mode locking of an erbium-doped fiber laser with atomic layer graphene. <i>Optics Express</i> , 2009 , 17, 17630-5	3.3	447
263	Broadband Nonlinear Photonics in Few-Layer MXene Ti ₃ C ₂ T _x (T = F, O, or OH). <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700229	8.3	438
262	Graphene mode locked, wavelength-tunable, dissipative soliton fiber laser. <i>Applied Physics Letters</i> , 2010 , 96, 111112	3.4	402
261	Large energy soliton erbium-doped fiber laser with a graphene-polymer composite mode locker. <i>Applied Physics Letters</i> , 2009 , 95, 141103	3.4	386

260	Graphene-Polymer Nanofiber Membrane for Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2010 , 20, 782-791	15.6	382
259	Structure-directing role of graphene in the synthesis of metal-organic framework nanowire. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14487-95	16.4	350
258	Nitrogen-Doped Nanoporous Carbon/Graphene Nano-Sandwiches: Synthesis and Application for Efficient Oxygen Reduction. <i>Advanced Functional Materials</i> , 2015 , 25, 5768-5777	15.6	328
257	Monolayer graphene as a saturable absorber in a mode-locked laser. <i>Nano Research</i> , 2011 , 4, 297-307	10	322
256	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. <i>Nature Communications</i> , 2019 , 10, 28	17.4	309
255	Two-Dimensional CH ₃ NH ₃ PbI ₃ Perovskite: Synthesis and Optoelectronic Application. <i>ACS Nano</i> , 2016 , 10, 3536-42	16.7	303
254	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. <i>Nanotechnology</i> , 2009 , 20, 085203	3.4	286
253	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. <i>Nature</i> , 2018 , 562, 557-562	50.4	285
252	Scalable Production of a Few-Layer MoS ₂ /WS ₂ Vertical Heterojunction Array and Its Application for Photodetectors. <i>ACS Nano</i> , 2016 , 10, 573-80	16.7	283
251	A graphene oxide-organic dye ionic complex with DNA-sensing and optical-limiting properties. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6549-53	16.4	283
250	Broadband photodetectors based on graphene-Bi ₂ Te ₃ heterostructure. <i>ACS Nano</i> , 2015 , 9, 1886-94	16.7	280
249	Microstructuring of graphene oxide nanosheets using direct laser writing. <i>Advanced Materials</i> , 2010 , 22, 67-71	24	278
248	Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbI ₃ Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700946	21.8	253
247	High-throughput synthesis of graphene by intercalation-exfoliation of graphite oxide and study of ionic screening in graphene transistor. <i>ACS Nano</i> , 2009 , 3, 3587-94	16.7	237
246	Two-Dimensional CH ₃ NH ₃ PbI ₃ Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12759-12765	9.5	231
245	Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. <i>Advanced Science</i> , 2017 , 4, 1600305	13.6	224
244	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
243	Well-Aligned Cone-Shaped Nanostructure of Polypyrrole/RuO ₂ and Its Electrochemical Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14843-14847	3.8	215

242	Hybrid Graphene/Perovskite Phototransistors with Ultrahigh Responsivity and Gain. <i>Advanced Optical Materials</i> , 2015 , 3, 1389-1396	8.1	213
241	Synthesis, properties, and optical applications of low-dimensional perovskites. <i>Chemical Communications</i> , 2016 , 52, 13637-13655	5.8	212
240	Photonics and optoelectronics of two-dimensional materials beyond graphene. <i>Nanotechnology</i> , 2016 , 27, 462001	3.4	203
239	Compact graphene mode-locked wavelength-tunable erbium-doped fiber lasers: from all anomalous dispersion to all normal dispersion. <i>Laser Physics Letters</i> , 2010 , 7, 591-596	1.5	201
238	Present perspectives of broadband photodetectors based on nanobelts, nanoribbons, nanosheets and the emerging 2D materials. <i>Nanoscale</i> , 2016 , 8, 6410-34	7.7	196
237	Black Phosphorus/Polymer Composites for Pulsed Lasers. <i>Advanced Optical Materials</i> , 2015 , 3, 1447-1453	1	192
236	Dissipative soliton operation of an ytterbium-doped fiber laser mode locked with atomic multilayer graphene. <i>Optics Letters</i> , 2010 , 35, 3622-4	3	187
235	Topological polaritons and photonic magic angles in twisted WMoO_4 bilayers. <i>Nature</i> , 2020 , 582, 209-213	50.4	174
234	Graphene/ Bi_2Te_3 Heterostructure as Saturable Absorber for Short Pulse Generation. <i>ACS Photonics</i> , 2015 , 2, 832-841	6.3	174
233	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017 , 8, 14482	17.4	172
232	Synthesis and Transfer of Large-Area Monolayer WS_2 Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. <i>ACS Nano</i> , 2015 , 9, 6178-87	16.7	163
231	Solution-Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2016 , 26, 864-871	15.6	157
230	Flexible, Printable Soft-X-Ray Detectors Based on All-Inorganic Perovskite Quantum Dots. <i>Advanced Materials</i> , 2019 , 31, e1901644	24	141
229	Highly Efficient and Air-Stable Infrared Photodetector Based on 2D Layered Graphene-Black Phosphorus Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36137-36145	9.5	138
228	Ultrafast recovery time and broadband saturable absorption properties of black phosphorus suspension. <i>Applied Physics Letters</i> , 2015 , 107, 091905	3.4	138
227	Near-Infrared Photodetectors Based on MoTe_2 /Graphene Heterostructure with High Responsivity and Flexibility. <i>Small</i> , 2017 , 13, 1700268	11	136
226	High-Performance Thin-Film Transistors from Solution-Processed Dithienothiophene Polymer Semiconductor Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 2057-2059	9.6	132
225	Selenium-Doped Black Phosphorus for High-Responsivity 2D Photodetectors. <i>Small</i> , 2016 , 12, 5000-5007	11	132

224	Highly responsive MoS ₂ photodetectors enhanced by graphene quantum dots. <i>Scientific Reports</i> , 2015 , 5, 11830	4.9	131
223	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. <i>Small</i> , 2018 , 14, e1800682	11	128
222	High-gain graphene-titanium oxide photoconductor made from inkjet printable ionic solution. <i>Advanced Materials</i> , 2010 , 22, 5265-70	24	126
221	Fabrication of Strongly Fluorescent Quantum Dot Polymer Composite in Aqueous Solution. <i>Chemistry of Materials</i> , 2007 , 19, 3773-3779	9.6	126
220	Polarized emission and optical waveguide in crystalline perylene diimide microwires. <i>Advanced Materials</i> , 2010 , 22, 3661-6	24	122
219	Vector dissipative solitons in graphene mode locked fiber lasers. <i>Optics Communications</i> , 2010 , 283, 3334-3338	11.8	118
218	Template-Free Electrochemical Synthesis of Superhydrophilic Polypyrrole Nanofiber Network. <i>Macromolecules</i> , 2008 , 41, 7053-7057	5.5	118
217	Soliton compression of the erbium-doped fiber laser weakly started mode-locking by nanoscale p-type Bi ₂ Te ₃ topological insulator particles. <i>Laser Physics Letters</i> , 2014 , 11, 055107	1.5	114
216	Strong Depletion in Hybrid Perovskite p-n Junctions Induced by Local Electronic Doping. <i>Advanced Materials</i> , 2018 , 30, e1705792	24	113
215	Giant plasmene nanosheets, nanoribbons, and origami. <i>ACS Nano</i> , 2014 , 8, 11086-93	16.7	112
214	Shape Evolution and Magnetic Properties of Cobalt Sulfide. <i>Crystal Growth and Design</i> , 2008 , 8, 3745-3749	9.5	108
213	Facile Fabrication of High-Density Sub-1-nm Gaps from Au Nanoparticle Monolayers as Reproducible SERS Substrates. <i>Advanced Functional Materials</i> , 2016 , 26, 8137-8145	15.6	108
212	Novel porous anatase TiO ₂ nanorods and their high lithium electroactivity. <i>Electrochemistry Communications</i> , 2007 , 9, 1233-1238	5.1	103
211	Toward high throughput interconvertible graphene-to-graphene growth and patterning. <i>ACS Nano</i> , 2010 , 4, 6146-52	16.7	100
210	Graphene as atomic template and structural scaffold in the synthesis of graphene-organic hybrid wire with photovoltaic properties. <i>ACS Nano</i> , 2010 , 4, 6180-6	16.7	99
209	Ultrathin 2D Transition Metal Carbides for Ultrafast Pulsed Fiber Lasers. <i>ACS Photonics</i> , 2018 , 5, 1808-1816	16.6	96
208	Slow cooling and efficient extraction of C-exciton hot carriers in MoS monolayer. <i>Nature Communications</i> , 2017 , 8, 13906	17.4	95
207	Controlled hydrogenation of graphene sheets and nanoribbons. <i>ACS Nano</i> , 2011 , 5, 888-96	16.7	94

206	High Efficiency Mesoscopic Solar Cells Using CsPbI Perovskite Quantum Dots Enabled by Chemical Interface Engineering. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3775-3783	16.4	92
205	Preparation and Characterization of a Novel Cocrystal Explosive. <i>Crystal Growth and Design</i> , 2011 , 11, 1759-1765	3.5	89
204	A Graphene Oxide/Organic Dye Ionic Complex with DNA-Sensing and Optical-Limiting Properties. <i>Angewandte Chemie</i> , 2010 , 122, 6699-6703	3.6	89
203	Field-Induced n-Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. <i>Advanced Functional Materials</i> , 2017 , 27, 1702211	15.6	80
202	Synthesis and electrical transport of novel channel-structured beta-AgVO ₃ . <i>Small</i> , 2007 , 3, 1174-7	11	78
201	Room-temperature synthesis of soluble carbon nanotubes by the sonication of graphene oxide nanosheets. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16832-7	16.4	77
200	Long range intrinsic ferromagnetism in two dimensional materials and dissipationless future technologies. <i>Applied Physics Reviews</i> , 2018 , 5, 041105	17.3	77
199	Few-Layer Topological Insulator for All-Optical Signal Processing Using the Nonlinear Kerr Effect. <i>Advanced Optical Materials</i> , 2015 , 3, 1769-1778	8.1	76
198	A highly efficient thermo-optic microring modulator assisted by graphene. <i>Nanoscale</i> , 2015 , 7, 20249-557.7	7.7	74
197	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3612-3618	3.8	74
196	Solution-Processed Extremely Efficient Multicolor Perovskite Light-Emitting Diodes Utilizing Doped Electron Transport Layer. <i>Advanced Functional Materials</i> , 2017 , 27, 1606874	15.6	73
195	Strain Relaxation of Monolayer WS ₂ on Plastic Substrate. <i>Advanced Functional Materials</i> , 2016 , 26, 8707-8714	8.14	71
194	Wafer-Scale Fabrication of Two-Dimensional PtS/PtSe Heterojunctions for Efficient and Broad band Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40614-40622	9.5	70
193	Mechanically-Assisted Electrochemical Production of Graphene Oxide. <i>Chemistry of Materials</i> , 2016 , 28, 8429-8438	9.6	67
192	Perovskite CsPbX ₃ : A Promising Nonlinear Optical Material and Its Applications for Ambient All-Optical Switching with Enhanced Stability. <i>Advanced Optical Materials</i> , 2018 , 6, 1800400	8.1	67
191	Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. <i>Nanoscale</i> , 2016 , 8, 6258-64	7.7	66
190	Band structure engineering in metal halide perovskite nanostructures for optoelectronic applications. <i>Nano Materials Science</i> , 2019 , 1, 268-287	10.2	65
189	Lattice -Mismatch-Induced Ultrastable 1T-Phase MoS ₂ -Pd/Au for Plasmon-Enhanced Hydrogen Evolution. <i>Nano Letters</i> , 2019 , 19, 2758-2764	11.5	64

188	Atomically thin lateral p-n junction photodetector with large effective detection area. <i>2D Materials</i> , 2016 , 3, 041001	5.9	64
187	Graphene surface plasmons at the near-infrared optical regime. <i>Scientific Reports</i> , 2014 , 4, 6559	4.9	63
186	Broad spectral tuning of ultra-low-loss polaritons in a van der Waals crystal by intercalation. <i>Nature Materials</i> , 2020 , 19, 964-968	27	59
185	Reversible Structural Swell-Shrink and Recoverable Optical Properties in Hybrid Inorganic-Organic Perovskite. <i>ACS Nano</i> , 2016 , 10, 7031-8	16.7	59
184	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS. <i>Nano-Micro Letters</i> , 2019 , 11, 102	19.5	59
183	A hydrothermal anvil made of graphene nanobubbles on diamond. <i>Nature Communications</i> , 2013 , 4, 1556	7.4	58
182	Direct Observation of 2D Electrostatics and Ohmic Contacts in Template-Grown Graphene/WS Heterostructures. <i>ACS Nano</i> , 2017 , 11, 2785-2793	16.7	56
181	Effects of edge on graphene plasmons as revealed by infrared nanoimaging. <i>Light: Science and Applications</i> , 2017 , 6, e16204	16.7	56
180	Pulsed Lasers Employing Solution-Processed Plasmonic Cu _{3-x} P Colloidal Nanocrystals. <i>Advanced Materials</i> , 2016 , 28, 3535-42	24	55
179	Actively Tunable Visible Surface Plasmons in Bi ₂ Te ₃ and their Energy-Harvesting Applications. <i>Advanced Materials</i> , 2016 , 28, 3138-44	24	53
178	Electric field induced growth of well aligned carbon nanotubes from ethanol flames. <i>Nanotechnology</i> , 2006 , 17, 1016-21	3.4	52
177	Infrared Permittivity of the Biaxial van der Waals Semiconductor MoO_3 from Near- and Far-Field Correlative Studies. <i>Advanced Materials</i> , 2020 , 32, e1908176	24	51
176	Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. <i>Nature Communications</i> , 2017 , 8, 613	17.4	51
175	2D Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. <i>Advanced Optical Materials</i> , 2017 , 5, 1700257	8.1	51
174	Optically tuned terahertz modulator based on annealed multilayer MoS ₂ . <i>Scientific Reports</i> , 2016 , 6, 22829	4.9	51
173	Few-Layer Platinum Diselenide as a New Saturable Absorber for Ultrafast Fiber Lasers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21534-21540	9.5	51
172	Theoretical analysis of hot electron dynamics in nanorods. <i>Scientific Reports</i> , 2015 , 5, 12140	4.9	50
171	High performance photodetector based on 2D CH ₃ NH ₃ PbI ₃ perovskite nanosheets. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 094002	3	49

170	Band Structure Engineering in 2D Materials for Optoelectronic Applications. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800072	6.8	48
169	The Roadmap of Graphene-Based Optical Biochemical Sensors. <i>Advanced Functional Materials</i> , 2017 , 27, 1603918	15.6	47
168	Electrical transport and photovoltaic effects of core-shell CuO/C60 nanowire heterostructure. <i>Nanotechnology</i> , 2009 , 20, 065203	3.4	47
167	Observation of large nonlinear responses in a graphene-Bi ₂ Te ₃ heterostructure at a telecommunication wavelength. <i>Applied Physics Letters</i> , 2016 , 108, 221901	3.4	47
166	A Broadband Optical Modulator Based on a Graphene Hybrid Plasmonic Waveguide. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4948-4953	4	47
165	Controllable synthesis of doped graphene and its applications. <i>Small</i> , 2014 , 10, 2975-91	11	46
164	Bias-switchable negative and positive photoconductivity in 2D FePS ultraviolet photodetectors. <i>Nanotechnology</i> , 2018 , 29, 244001	3.4	45
163	Flexible Broadband Graphene Photodetectors Enhanced by Plasmonic Cu P Colloidal Nanocrystals. <i>Small</i> , 2017 , 13, 1701881	11	45
162	Raman Spectroscopy of Two-Dimensional Bi ₂ Te ₃ Platelets Produced by Solvothermal Method. <i>Materials</i> , 2015 , 8, 5007-5017	3.5	45
161	Graphene Nanobubbles: A New Optical Nonlinear Material. <i>Advanced Optical Materials</i> , 2015 , 3, 744-749.1		44
160	Ultra-broadband Nonlinear Saturable Absorption for Two-dimensional Bi ₂ Te _{3-x} Nanosheets. <i>Scientific Reports</i> , 2016 , 6, 33070	4.9	44
159	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12486-12491	16.4	43
158	Solvothermal Growth of Bismuth Chalcogenide Nanoplatelets by the Oriented Attachment Mechanism: An in Situ PXRD Study. <i>Chemistry of Materials</i> , 2015 , 27, 3471-3482	9.6	43
157	Back-contacted hybrid organic/inorganic perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3125-3130	7.1	43
156	Artificial Metaphotonics Born Naturally in Two Dimensions. <i>Chemical Reviews</i> , 2020 , 120, 6197-6246	68.1	42
155	Ultra-Broadband Flexible Photodetector Based on Topological Crystalline Insulator SnTe with High Responsivity. <i>Small</i> , 2018 , 14, e1802598	11	42
154	Using the graphene Moiré pattern for the trapping of C60 and homoepitaxy of graphene. <i>ACS Nano</i> , 2012 , 6, 944-50	16.7	42
153	Profound Effect of Substrate Hydroxylation and Hydration on Electronic and Optical Properties of Monolayer MoS ₂ . <i>Nano Letters</i> , 2015 , 15, 3096-102	11.5	39

152	Electrochemical performance of graphene and copper oxide composites synthesized from a metal-organic framework (Cu-MOF). <i>RSC Advances</i> , 2013 , 3, 19051	3.7	39
151	Monolayer graphene photonic metastructures: Giant Faraday rotation and nearly perfect transmission. <i>Physical Review B</i> , 2013 , 88,	3.3	39
150	Stationary current generated from photocycle of a hybrid bacteriorhodopsin/quantum dot bionanosystem. <i>Applied Physics Letters</i> , 2007 , 91, 223901	3.4	38
149	Graphene-Bi ₂ Te ₃ Heterostructure as Broadband Saturable Absorber for Ultra-Short Pulse Generation in Er-Doped and Yb-Doped Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 195-199	3.8	36
148	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 12987-12995	16.7	36
147	Covalently linked DNA/protein multilayered film for controlled DNA release. <i>Journal of Colloid and Interface Science</i> , 2007 , 314, 80-8	9.3	36
146	High-Yield Electrochemical Production of Large-Sized and Thinly Layered NiPS Flakes for Overall Water Splitting. <i>Small</i> , 2019 , 15, e1902427	11	35
145	Broadband Nonlinear Photonics in Few-Layer MXene Ti ₃ C ₂ T _x (T = F, O, or OH) (Laser Photonics Rev. 12(2)/2018). <i>Laser and Photonics Reviews</i> , 2018 , 12, 1870013	8.3	34
144	Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. <i>ACS Photonics</i> , 2016 , 3, 1986-1992	6.3	34
143	Back-contact perovskite solar cells with honeycomb-like charge collecting electrodes. <i>Nano Energy</i> , 2018 , 50, 710-716	17.1	34
142	The Light-Induced Field-Effect Solar Cell Concept - Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1606370	24	32
141	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. <i>Nature Communications</i> , 2020 , 11, 6086	17.4	32
140	Selective laser sintering of TiO ₂ nanoparticle film on plastic conductive substrate for highly efficient flexible dye-sensitized solar cell application. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4566-4573	13	32
139	Lithium Insertion in Channel-Structured AgVO ₃ : InSitu Raman Study and Computer Simulation. <i>Chemistry of Materials</i> , 2007 , 19, 5965-5972	9.6	32
138	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019 , 10, 4472	17.4	31
137	Degradation of Two-Dimensional CH ₃ NH ₃ PbI ₃ Perovskite and CH ₃ NH ₃ PbI ₃ /Graphene Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24258-24265	9.5	30
136	Highly Stable Pd-Based Catalytic Nanoarchitectures for Low Temperature Fuel Cells. <i>Fuel Cells</i> , 2008 , 8, 429-435	2.9	30
135	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. <i>Light: Science and Applications</i> , 2020 , 9, 137	16.7	30

134	In situ observation of the thermal stability of black phosphorus. <i>2D Materials</i> , 2017 , 4, 025001	5.9	29
133	Role of Surface Recombination in Halide Perovskite Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31586-31593	9.5	29
132	Hybridized Hyperbolic Surface Phonon Polaritons at hMoO and Polar Dielectric Interfaces. <i>Nano Letters</i> , 2021 , 21, 3112-3119	11.5	29
131	Large-Scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600077	6.4	29
130	Blocks of molybdenum ditelluride: A high rate anode for sodium-ion battery and full cell prototype study. <i>Nano Energy</i> , 2019 , 64, 103951	17.1	28
129	Efficiency enhancement of TiO_2 nanodendrite array electrodes in CuInS_2 quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 111, 755-761	6.7	28
128	Organic Thin-Film Transistors Processed from Relatively Nontoxic, Environmentally Friendlier Solvents. <i>Chemistry of Materials</i> , 2010 , 22, 5747-5753	9.6	27
127	Optoelectronic investigation of monolayer $\text{MoS}_2/\text{WSe}_2$ vertical heterojunction photoconversion devices. <i>Nano Energy</i> , 2016 , 30, 260-266	17.1	27
126	Capillary-bridge mediated assembly of aligned perovskite quantum dots for high-performance photodetectors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5954-5961	7.1	26
125	Chemical switching of low-loss phonon polaritons in hMoO by hydrogen intercalation. <i>Nature Communications</i> , 2020 , 11, 2646	17.4	26
124	Electric-field-induced microstructural transformation of carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 063124	3.4	26
123	Cavity QED analysis of an exciton-plasmon hybrid molecule via the generalized nonlocal optical response method. <i>Physical Review B</i> , 2017 , 95,	3.3	25
122	Enhanced light-harvesting of the conical TiO_2 nanotube arrays used as the photoanodes in flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 146, 838-844	6.7	25
121	Reliable Synthesis of Large-Area Monolayer WS_2 Single Crystals, Films, and Heterostructures with Extraordinary Photoluminescence Induced by Water Intercalation. <i>Advanced Optical Materials</i> , 2018 , 6, 1701347	8.1	24
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