

# Qiaoliang Bao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

277  
papers

30,337  
citations

77  
h-index

171  
g-index

308  
ext. papers

34,324  
ext. citations

10.3  
avg, IF

7.33  
L-index

#	Paper	IF	Citations
277	Nonlinear microscopy of lead iodide nanosheets.. <i>Optics Express</i> , <b>2022</b> , 30, 4793-4805	3.3	
276	Tailoring Topological Transitions of Anisotropic Polaritons by Interface Engineering in Biaxial Crystals.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	6
275	Tunable Cherenkov radiation based on a van der Waals semiconductor $\text{HfMoO}$ and graphene hybrid.. <i>Optics Letters</i> , <b>2022</b> , 47, 2458-2461	3	1
274	Ideal type-II Weyl points in twisted one-dimensional dielectric photonic crystals. <i>Optics Express</i> , <b>2021</b> , 29, 40606-40616	3.3	1
273	Focusing of in-plane hyperbolic polaritons in van der Waals crystals with tailored infrared nanoantennas. <i>Science Advances</i> , <b>2021</b> , 7, eabj0127	14.3	8
272	Hybridized Hyperbolic Surface Phonon Polaritons at $\text{HfMoO}$ and Polar Dielectric Interfaces. <i>Nano Letters</i> , <b>2021</b> , 21, 3112-3119	11.5	29
271	Harnessing the Potential of Graphitic Carbon Nitride for Optoelectronic Applications. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100146	8.1	4
270	Efficient and Tunable Reflection of Phonon Polaritons at Built-In Intercalation Interfaces. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008070	24	6
269	Two-Dimensional $\text{BiSrCaCuO}$ Nanosheets for Ultrafast Photonics and Optoelectronics. <i>ACS Nano</i> , <b>2021</b> , 15, 8919-8929	16.7	4
268	Intermediate phase-enhanced Ostwald ripening for the elimination of phase segregation in efficient inorganic $\text{CsPbI}_2\text{Br}$ perovskite solar cells. <i>Science China Materials</i> , <b>2021</b> , 64, 2655-2666	7.1	4
267	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 10775-10981	16.7	222
266	Germanium Nanosheets with Dirac Characteristics as a Saturable Absorber for Ultrafast Pulse Generation. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101042	24	7
265	Layered $2\text{H-MoTe}_2$ : A novel anode material for lithium-ion batteries. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	1
264	Probing the dynamic structural changes of DNA using ultrafast laser pulse in graphene-based optofluidic device. <i>Information Materials</i> , <b>2021</b> , 3, 316-326	23.1	1
263	Ultrathin $\text{Ga}_2\text{O}_3$ Glass: A Large-Scale Passivation and Protection Material for Monolayer WS <sub>2</sub> . <i>Advanced Materials</i> , <b>2021</b> , 33, e2005732	24	19
262	Waveguiding and Lasing in 2D Organic Semiconductor $\text{Znq}_2$ . <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000057	1.57	3
261	A graphene-MoC heterostructure for a highly responsive broadband photodetector. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 23024-23031	3.6	

260	Ultrasensitive WSe <sub>2</sub> field-effect transistor-based biosensor for label-free detection of cancer in point-of-care applications. <i>2D Materials</i> , <b>2021</b> , 8, 045005	5.9	9
259	Unraveling the synergetic mechanism of physisorption and chemisorption in laser-irradiated monolayer WS <sub>2</sub> . <i>Nano Research</i> , <b>2021</b> , 14, 4274	10	1
258	Germanium Nanosheets with Dirac Characteristics as a Saturable Absorber for Ultrafast Pulse Generation (Adv. Mater. 32/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170247	24	0
257	All-polarization-maintaining linear fiber laser mode-locked by nonlinear polarization evolution with phase bias. <i>Optics and Laser Technology</i> , <b>2021</b> , 142, 107160	4.2	3
256	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. <i>Nature Communications</i> , <b>2020</b> , 11, 6086	17.4	32
255	High performance broadband photo and soft X-ray detectors based on two dimensional CrSiTe <sub>3</sub> . <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6659-6666	7.1	9
254	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26384-26390	9.5	14
253	Chemical switching of low-loss phonon polaritons in $\text{MoO}_3$ by hydrogen intercalation. <i>Nature Communications</i> , <b>2020</b> , 11, 2646	17.4	26
252	Topological polaritons and photonic magic angles in twisted $\text{MoO}_3$ bilayers. <i>Nature</i> , <b>2020</b> , 582, 209-213	50.4	174
251	Infrared Permittivity of the Biaxial van der Waals Semiconductor $\text{MoO}_3$ from Near- and Far-Field Correlative Studies. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908176	24	51
250	Artificial Metaphotonics Born Naturally in Two Dimensions. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6197-6246	68.1	42
249	Flat Lenses Based on 2D Perovskite Nanosheets. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001388	24	12
248	Duplex Mikaelian and Duplex Maxwell's Fish-Eye Lenses. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	2
247	Valley-Hall Topological Plasmons in a Graphene Nanohole Plasmonic Crystal Waveguide. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2020</b> , 26, 1-8	3.8	13
246	Highly stable and repeatable femtosecond soliton pulse generation from saturable absorbers based on two-dimensional Cu <sub>3</sub> P nanocrystals. <i>Frontiers of Optoelectronics</i> , <b>2020</b> , 13, 139-148	2.8	6
245	Monolayer Conveyor for Stably Trapping and Transporting Sub-1 nm Particles. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 2000030	8.3	9
244	Electrically controllable magneto-optic effects in a two-dimensional hexagonal organometallic lattice. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
243	High Efficiency Mesoscopic Solar Cells Using CsPbI <sub>3</sub> Perovskite Quantum Dots Enabled by Chemical Interface Engineering. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3775-3783	16.4	92

242	Anisotropic polaritons in van der Waals materials. <i>Information Materials</i> , <b>2020</b> , 2, 777-790	23.1	12
241	Broad spectral tuning of ultra-low-loss polaritons in a van der Waals crystal by intercalation. <i>Nature Materials</i> , <b>2020</b> , 19, 964-968	27	59
240	The Luneburg-Lissajous lens. <i>Europhysics Letters</i> , <b>2020</b> , 129, 64001	1.6	0
239	Novel Optical and Photonic Devices based on 2D Materials: feature issue introduction. <i>Optical Materials Express</i> , <b>2020</b> , 10, 1344	2.6	
238	Study on optimization of nano-coatings for ultra-sensitive biosensors based on long-period fiber grating. <i>Sensing and Bio-Sensing Research</i> , <b>2020</b> , 27, 100320	3.3	4
237	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. <i>ACS Nano</i> , <b>2020</b> , 14, 1123-1132	16.7	11
236	Large magnetotransport properties in mixed-dimensional van der Waals heterostructures of graphene foam. <i>Carbon</i> , <b>2020</b> , 159, 648-655	10.4	11
235	Synthesis and optical applications of low dimensional metal-halide perovskites. <i>Nanotechnology</i> , <b>2020</b> , 31, 152002	3.4	20
234	Light-emitting devices <b>2020</b> , 175-197		
233	2D materials for bio-photonics applications <b>2020</b> , 253-280		1
232	Van der Waals Semiconductors: Infrared Permittivity of the Biaxial van der Waals Semiconductor $\text{BiMoO}_3$ from Near- and Far-Field Correlative Studies (Adv. Mater. 29/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070220	24	2
231	Graphene plasmonic nanoresonators/graphene heterostructures for efficient room-temperature infrared photodetection. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 072907	2.3	4
230	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 137	16.7	30
229	Perovskite Lenses: Flat Lenses Based on 2D Perovskite Nanosheets (Adv. Mater. 30/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070228	24	
228	High Performance Lithium-Ion Batteries Using Layered 2H-MoTe as Anode. <i>Small</i> , <b>2020</b> , 16, e2002669	11	24
227	Atomically Thin Noble Metal Dichalcogenides for Phase-Regulated Meta-optics. <i>Nano Letters</i> , <b>2020</b> , 20, 7811-7818	11.5	17
226	Honeycomb-shaped charge collecting electrodes for dipole-assisted back-contact perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 67, 104223	17.1	11
225	Strong interactions in molybdenum disulfide heterostructures boosting the catalytic performance of water splitting: A short review. <i>Nano Materials Science</i> , <b>2019</b> , 1, 231-245	10.2	8

224	Bottom-up growth of homogeneous Moiré Superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , <b>2019</b> , 10, 4472	17.4	31
223	High-Yield Electrochemical Production of Large-Sized and Thinly Layered NiPS Flakes for Overall Water Splitting. <i>Small</i> , <b>2019</b> , 15, e1902427	11	35
222	Flexible, Printable Soft-X-Ray Detectors Based on All-Inorganic Perovskite Quantum Dots. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901644	24	141
221	Physics and Optoelectronic Simulation of Photodetectors Based on 2D Materials. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900410	8.1	19
220	Capillary-bridge mediated assembly of aligned perovskite quantum dots for high-performance photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5954-5961	7.1	26
219	Superior Magnetoresistance Performance of Hybrid Graphene Foam/Metal Sulfide Nanocrystal Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19397-19403	9.5	20
218	Flexible photodetectors based on reticulated SWNT/perovskite quantum dot heterostructures with ultrahigh durability. <i>Nanoscale</i> , <b>2019</b> , 11, 8020-8026	7.7	20
217	Graphene Heterostructure Integrated Optical Fiber Bragg Grating for Light Motion Tracking and Ultrabroadband Photodetection from 400 nm to 10.768 μm. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807274	15.6	22
216	Lattice -Mismatch-Induced Ultrastable 1T-Phase MoS-Pd/Au for Plasmon-Enhanced Hydrogen Evolution. <i>Nano Letters</i> , <b>2019</b> , 19, 2758-2764	11.5	64
215	Structural and electrochemical mechanism study of layered MoTe2 anode material for sodium-ion battery <b>2019</b> ,		1
214	Overcoming the Electroluminescence Efficiency Limitations in Quantum-Dot Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900695	8.1	15
213	Perovskite X-Ray Detectors: Flexible, Printable Soft-X-Ray Detectors Based on All-Inorganic Perovskite Quantum Dots (Adv. Mater. 30/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970214	24	12
212	Blocks of molybdenum ditelluride: A high rate anode for sodium-ion battery and full cell prototype study. <i>Nano Energy</i> , <b>2019</b> , 64, 103951	17.1	28
211	Optical Biochemical Sensors Based on 2D Materials <b>2019</b> , 379-406		4
210	Spatially Modulating the Fluorescence Color of Mixed-Halide Perovskite Nanoplatelets through Direct Femtosecond Laser Writing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26017-26023	9.5	22
209	Band structure engineering in metal halide perovskite nanostructures for optoelectronic applications. <i>Nano Materials Science</i> , <b>2019</b> , 1, 268-287	10.2	65
208	Synthesis of Millimeter-Scale Continuous WS2 Film by Mitigating Poisoning of H2 on WO2.9 Precursor. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900480	2.5	1
207	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. <i>ACS Nano</i> , <b>2019</b> , 13, 12987-12995	16.7	36

206	Graphene and Mo2C vertical heterostructure for femtosecond mode-locked lasers [Invited]. <i>Optical Materials Express</i> , <b>2019</b> , 9, 3268	2.6	6
205	An Adaptive Soft Plasmonic Nanosheet Resonator. <i>Laser and Photonics Reviews</i> , <b>2019</b> , 13, 1800302	8.3	5
204	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 102	19.5	59
203	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. <i>Nature Communications</i> , <b>2019</b> , 10, 28	17.4	309
202	Construction of porous N-doped graphene layer for efficient oxygen reduction reaction. <i>Chemical Engineering Science</i> , <b>2019</b> , 194, 36-44	4.4	24
201	Broadband Nonlinear Photonics in Few-Layer MXene Ti3C2Tx (T = F, O, or OH) (Laser Photonics Rev. 12(2)/2018). <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1870013	8.3	34
200	Strong Depletion in Hybrid Perovskite p-n Junctions Induced by Local Electronic Doping. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705792	24	113
199	MoTe2, A novel anode material for sodium ion battery <b>2018</b> ,		4
198	Reliable Synthesis of Large-Area Monolayer WS2 Single Crystals, Films, and Heterostructures with Extraordinary Photoluminescence Induced by Water Intercalation. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701347	8.1	24
197	Ultrathin 2D Transition Metal Carbides for Ultrafast Pulsed Fiber Lasers. <i>ACS Photonics</i> , <b>2018</b> , 5, 1808-1816	6.6	96
196	Bias-switchable negative and positive photoconductivity in 2D FePS ultraviolet photodetectors. <i>Nanotechnology</i> , <b>2018</b> , 29, 244001	3.4	45
195	Photonic surface waves enabled perfect infrared absorption by monolayer graphene. <i>Nano Energy</i> , <b>2018</b> , 48, 161-169	17.1	17
194	Broadband Nonlinear Photonics in Few-Layer MXene Ti3C2Tx (T = F, O, or OH). <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1700229	8.3	438
193	Photonics of 2D materials. <i>Optics Communications</i> , <b>2018</b> , 406, 1-2	2	13
192	Perovskite CsPbX3: A Promising Nonlinear Optical Material and Its Applications for Ambient All-Optical Switching with Enhanced Stability. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800400	8.1	67
191	Wide-field in situ multiplexed Raman imaging with superresolution. <i>Photonics Research</i> , <b>2018</b> , 6, 530	6	5
190	Ytterbium-doped fiber laser passively mode locked by evanescent field interaction with CH3NH3SnI3 perovskite saturable absorber. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 375106	3	14
189	Crystal-site engineering for developing tunable green light emitting Ba9Lu2Si6O24:Eu2+ phosphors for efficient white LEDs. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 767, 374-381	5.7	18

188	Nonlinear optical absorption and ultrafast carrier dynamics of copper antimony sulfide semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8977-8983	7.1	18
187	Role of Surface Recombination in Halide Perovskite Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31586-31593	9.5	29
186	Ultra-Broadband Flexible Photodetector Based on Topological Crystalline Insulator SnTe with High Responsivity. <i>Small</i> , <b>2018</b> , 14, e1802598	11	42
185	Back-contact perovskite solar cells with honeycomb-like charge collecting electrodes. <i>Nano Energy</i> , <b>2018</b> , 50, 710-716	17.1	34
184	Degradation of Two-Dimensional CHNHPbI Perovskite and CHNHPbI/Graphene Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24258-24265	9.5	30
183	Electrochemical investigation of MoTe <sub>2</sub> /rGO composite materials for sodium-ion battery application <b>2018</b> ,		2
182	Introduction to two-dimensional layered materials for ultrafast lasers. <i>Photonics Research</i> , <b>2018</b> , 6, TDL16		7
181	Highly responsive broadband black phosphorus photodetectors. <i>Chinese Optics Letters</i> , <b>2018</b> , 16, 020002.2		11
180	Long range intrinsic ferromagnetism in two dimensional materials and dissipationless future technologies. <i>Applied Physics Reviews</i> , <b>2018</b> , 5, 041105	17.3	77
179	Band Structure Engineering in 2D Materials for Optoelectronic Applications. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800072	6.8	48
178	Wafer-Scale Fabrication of Two-Dimensional PtS/PtSe Heterojunctions for Efficient and Broad band Photodetection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 40614-40622	9.5	70
177	Illumination-Induced Halide Segregation in Gradient Bandgap Mixed-Halide Perovskite Nanoplatelets. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1801107	8.1	23
176	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. <i>Nature</i> , <b>2018</b> , 562, 557-562	50.4	285
175	Nanograting-assisted generation of surface plasmon polaritons in Weyl semimetal WTe <sub>2</sub> . <i>Optical Materials</i> , <b>2018</b> , 86, 421-423	3.3	14
174	Exciton behavior under the influence of metal nanoparticle near fields: Significance of nonlocal effects. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	12
173	Few-Layer Platinum Diselenide as a New Saturable Absorber for Ultrafast Fiber Lasers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21534-21540	9.5	51
172	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. <i>Small</i> , <b>2018</b> , 14, e1800682	11	128
171	Bi-layer Bismuth Selenide nanoplatelets based saturable absorber for ultra-short pulse generation (Invited). <i>Optics Communications</i> , <b>2017</b> , 395, 55-60	2	21

170	Graphene-Bi <sub>2</sub> Te <sub>3</sub> 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> , <b>2017</b> , 23, 195-199	3.8	36
169	High performance photodetector based on 2D CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite nanosheets. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 094002	3	49
168	Slow cooling and efficient extraction of C-exciton hot carriers in MoS monolayer. <i>Nature Communications</i> , <b>2017</b> , 8, 13906	17.4	95
167	In situ observation of the thermal stability of black phosphorus. <i>2D Materials</i> , <b>2017</b> , 4, 025001	5.9	29
166	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , <b>2017</b> , 8, 14482	17.4	172
165	Direct Observation of 2D Electrostatics and Ohmic Contacts in Template-Grown Graphene/WS Heterostructures. <i>ACS Nano</i> , <b>2017</b> , 11, 2785-2793	16.7	56
164	Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. <i>Advanced Science</i> , <b>2017</b> , 4, 1600305	13.6	224
163	The Light-Induced Field-Effect Solar Cell Concept - Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606370	24	32
162	Effects of edge on graphene plasmons as revealed by infrared nanoimaging. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e16204	16.7	56
161	Near-Infrared Photodetectors Based on MoTe <sub>2</sub> /Graphene Heterostructure with High Responsivity and Flexibility. <i>Small</i> , <b>2017</b> , 13, 1700268	11	136
160	Gold nanoparticle mediated graphene plasmon for broadband enhanced infrared spectroscopy. <i>Nanotechnology</i> , <b>2017</b> , 28, 264001	3.4	16
159	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 12486-12491	16.4	43
158	Biosensors: The Roadmap of Graphene-Based Optical Biochemical Sensors (Adv. Funct. Mater. 19/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	1
157	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 12660-12665	3.6	7
156	Solution-Processed Extremely Efficient Multicolor Perovskite Light-Emitting Diodes Utilizing Doped Electron Transport Layer. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606874	15.6	73
155	Two-Dimensional CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 12759-12765	9.5	231
154	Highly Efficient and Air-Stable Infrared Photodetector Based on 2D Layered Graphene-Black Phosphorus Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36137-36145	9.5	138
153	Titelbild: Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices (Angew. Chem. 41/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 12547-12547	3.6	

152	Infrared Nanoimaging Reveals the Surface Metallic Plasmons in Topological Insulator. <i>ACS Photonics</i> , <b>2017</b> , 4, 3055-3062	6.3	15
151	Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. <i>Nature Communications</i> , <b>2017</b> , 8, 613	17.4	51
150	Synthesis of Ultrathin Composition Graded Doped Lateral WSe/WS Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34204-34212	9.5	17
149	Flexible Broadband Graphene Photodetectors Enhanced by Plasmonic Cu P Colloidal Nanocrystals. <i>Small</i> , <b>2017</b> , 13, 1701881	11	45
148	Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbIBr <sub>2</sub> Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700946	21.8	253
147	Optical conductivity of a commensurate graphene-topological insulator heterostructure. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 385301	3	4
146	2D Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700257	8.1	51
145	Field-Induced n-Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702211	15.6	80
144	Black phosphorus induced photo-doping for high-performance organic-silicon heterojunction photovoltaics. <i>Nano Research</i> , <b>2017</b> , 10, 3848-3856	10	16
143	Cavity QED analysis of an exciton-plasmon hybrid molecule via the generalized nonlocal optical response method. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	25
142	The Roadmap of Graphene-Based Optical Biochemical Sensors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603918	15.6	47
141	Aqueous Electrochemical Activity of the Mg Surface: The Role of Group 14 and 15 Microalloying Elements. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C918-C929	3.9	14
140	Graphene as Optical Limiters <b>2017</b> , 131-146		1
139	Graphene-Based Touchscreens <b>2017</b> , 163-176		
138	Application of Graphene in Lasers <b>2017</b> , 27-39		
137	Graphene-Based Light-Emitting Diodes <b>2017</b> , 147-161		
136	Graphene-Based Photodetectors <b>2017</b> , 65-80		
135	Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. <i>Nanoscale</i> , <b>2016</b> , 8, 6258-64	7.7	66

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132	Photonics and optoelectronics of two-dimensional materials beyond graphene. <i>Nanotechnology</i> , <b>2016</b> , 27, 462001	3.4	203
131	Strain Relaxation of Monolayer WS <sub>2</sub> on Plastic Substrate. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8707-8714	3.1	71
130	Mechanically-Assisted Electrochemical Production of Graphene Oxide. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8429-8438	9.6	67
129	Carbon Nanomaterials in Flames: from 0-D to 1-D and 2-D. <i>MRS Advances</i> , <b>2016</b> , 1, 1313-1325	0.7	1
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124	Two-Dimensional CH <sub>3NH<sub>3</sub>PbI<sub>3</sub></sub> Perovskite: Synthesis and Optoelectronic Application. <i>ACS Nano</i> , <b>2016</b> , 10, 3536-42	16.7	303
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119	Selenium-Doped Black Phosphorus for High-Responsivity 2D Photodetectors. <i>Small</i> , <b>2016</b> , 12, 5000-5007	11	132
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117	Reversible Structural Swell-Shrink and Recoverable Optical Properties in Hybrid Inorganic-Organic Perovskite. <i>ACS Nano</i> , <b>2016</b> , 10, 7031-8	16.7	59

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