

Feng Zhang

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.

259
papers

27,631
citations

91
h-index

162
g-index

272
ext. papers

33,166
ext. citations

9.8
avg. IF

7.58
L-index

#	Paper	IF	Citations
259	Narrow-bandgap materials for optoelectronics applications. <i>Frontiers of Physics</i> , 2022 , 17, 1	3.7	5
258	Ultrafast photonics applications of emerging 2D-Xenes beyond graphene. <i>Nanophotonics</i> , 2022 , 11, 126163284	6.3	5
257	Recent advances and challenges on dark solitons in fiber lasers. <i>Optics and Laser Technology</i> , 2022 , 152, 108116	4.2	1
256	Optical-intensity modulators with PbTe thermoelectric nanopowders for ultrafast photonics. <i>Applied Materials Today</i> , 2022 , 28, 101546	6.6	8
255	Recent progress and strategies in photodetectors based on 2D inorganic/organic heterostructures. <i>2D Materials</i> , 2021 , 8, 012001	5.9	5
254	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2021 ,	68.1	23
253	Material-based engineering of bacteria for cancer diagnosis and therapy. <i>Applied Materials Today</i> , 2021 , 25, 101212	6.6	1
252	Phase Transitions and Water Splitting Applications of 2D Transition Metal Dichalcogenides and Metal Phosphorous Trichalcogenides. <i>Advanced Science</i> , 2021 , 8, 2002284	13.6	18
251	Smart nano-micro platforms for ophthalmological applications: The state-of-the-art and future perspectives. <i>Biomaterials</i> , 2021 , 270, 120682	15.6	7
250	2D Materials Enabled Next-Generation Integrated Optoelectronics: from Fabrication to Applications. <i>Advanced Science</i> , 2021 , 8, e2003834	13.6	13
249	An Insightful Picture of Nonlinear Photonics in 2D Materials and their Applications: Recent Advances and Future Prospects. <i>Advanced Optical Materials</i> , 2021 , 9, 2001671	8.1	2
248	Photodynamic immunotherapy of cancers based on nanotechnology: recent advances and future challenges. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 160	9.4	19
247	Magnetic black phosphorus microbubbles for targeted tumor theranostics. <i>Nanophotonics</i> , 2021 , 10, 3339-3358	6.3	6
246	Broadband and ultrafast all-optical switching based on transition metal carbide. <i>Nanophotonics</i> , 2021 , 10, 2617-2623	6.3	1
245	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , 2021 , 403, 126336	14.7	19
244	Status and Outlook of Metal-Inorganic Semiconductor-Metal Photodetectors. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000401	8.3	23
243	Low-dimensional nanomaterials enabled autoimmune disease treatments: Recent advances, strategies, and future challenges. <i>Coordination Chemistry Reviews</i> , 2021 , 432, 213697	23.2	2

242	Emerging Mono-Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2007584	15.6	17
241	Two-Dimensional Materials for Integrated Photonics: Recent Advances and Future Challenges. <i>Small Science</i> , 2021 , 1, 2000053		23
240	Recent advances in anisotropic two-dimensional materials and device applications. <i>Nano Research</i> , 2021 , 14, 897-919	10	32
239	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenos: Progress, Challenges, and Prospects. <i>Advanced Functional Materials</i> , 2021 , 31, 2005957	15.6	21
238	Recent Advances in Hybridization, Doping, and Functionalization of 2D Xenos. <i>Advanced Functional Materials</i> , 2021 , 31, 2005471	15.6	10
237	2D Nanomaterials for Tissue Engineering and Regenerative Nanomedicines: Recent Advances and Future Challenges. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001743	10.1	33
236	Boron quantum dots all-optical modulator based on efficient photothermal effect. <i>Opto-Electronic Advances</i> , 2021 , 4, 200032-200032	6.5	4
235	Ultra-Small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photo-Electrochemical Photodetectors. <i>Small</i> , 2021 , 17, e2005913	11	20
234	Berlin Green Framework-Based Gas Sensor for Room-Temperature and High-Selectivity Detection of Ammonia. <i>Nano-Micro Letters</i> , 2021 , 13, 63	19.5	6
233	Hetero-MXenes: Theory, Synthesis, and Emerging Applications. <i>Advanced Materials</i> , 2021 , 33, e2004129	24	58
232	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. <i>Small</i> , 2021 , 17, e2006054	41	41
231	Nonlinear Photonics Using Low-Dimensional Metal-Halide Perovskites: Recent Advances and Future Challenges. <i>Advanced Materials</i> , 2021 , 33, e2004446	24	24
230	PbSe Nanocrystals Produced by Facile Liquid Phase Exfoliation for Efficient UV-Vis Photodetectors. <i>Advanced Functional Materials</i> , 2021 , 31, 2010401	15.6	17
229	Water-Dispersible CsPbBr Perovskite Nanocrystals with Ultra-Stability and its Application in Electrochemical CO Reduction. <i>Nano-Micro Letters</i> , 2021 , 13, 172	19.5	3
228	Performance analysis of photo-electrochemical photodetector based on liquid-phase exfoliation few-layered graphdiyne nanosheets. <i>Nanophotonics</i> , 2021 , 10, 2833-2845	6.3	2
227	2D materials for bone therapy. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113970	18.5	3
226	Applications of Few-Layer NbC MXene: Narrow-Band Photodetectors and Femtosecond Mode-Locked Fiber Lasers. <i>ACS Nano</i> , 2021 , 15, 954-965	16.7	65
225	Prodrug-Loaded Zirconium Carbide Nanosheets as a Novel Biophotonic Nanoplatforrm for Effective Treatment of Cancer. <i>Advanced Science</i> , 2020 , 7, 2001191	13.6	17

224	Recent advances in photodynamic therapy based on emerging two-dimensional layered nanomaterials. <i>Nano Research</i> , 2020 , 13, 1485-1508	10	24
223	Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. <i>Small Methods</i> , 2020 , 4, 2000250	12.8	47
222	Bismuthene quantum dots based optical modulator for MIR lasers at 21 μ m. <i>Optical Materials</i> , 2020 , 102, 109830	3.3	8
221	Synthesis Techniques, Optoelectronic Properties, and Broadband Photodetection of Thin-Film Black Phosphorus. <i>Advanced Optical Materials</i> , 2020 , 8, 2000045	8.1	18
220	Ultrasensitive detection of microRNA using a bismuthene-enabled fluorescence quenching biosensor. <i>Chemical Communications</i> , 2020 , 56, 7041-7044	5.8	14
219	Emerging combination strategies with phototherapy in cancer nanomedicine. <i>Chemical Society Reviews</i> , 2020 , 49, 8065-8087	58.5	193
218	Emerging 2D pnictogens for catalytic applications: status and challenges. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12887-12927	13	17
217	Synthesis, properties and novel electrocatalytic applications of the 2D-borophene Xenes. <i>Progress in Solid State Chemistry</i> , 2020 , 59, 100283	8	35
216	Broadband nonlinear optical response in GeSe nanoplates and its applications in all-optical diode. <i>Nanophotonics</i> , 2020 , 9, 2007-2015	6.3	7
215	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. <i>Nano Research</i> , 2020 , 13, 891-918	10	27
214	Quantum confinement-induced enhanced nonlinearity and carrier lifetime modulation in two-dimensional tin sulfide. <i>Nanophotonics</i> , 2020 , 9, 1963-1972	6.3	8
213	Graphdiyne-Polymer Nanocomposite as a Broadband and Robust Saturable Absorber for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900367	8.3	56
212	Site-Selective Bi ₂ Te ₃ /Bi ₂ Te ₂ Heterostructure as a Broadband Saturable Absorber for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900409	8.3	21
211	Two-dimensional porous coordination polymers and nano-composites for electrocatalysis and electrically conductive applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14356-14383	13	19
210	A nano-lateral heterojunction of selenium-coated tellurium for infrared-band soliton fiber lasers. <i>Nanoscale</i> , 2020 , 12, 15252-15260	7.7	5
209	Phosphorene-assisted silicon photonic modulator with fast response time. <i>Nanophotonics</i> , 2020 , 9, 197361979	19.7	10
208	Few-layer hexagonal bismuth telluride (Bi ₂ Te ₃) nanoplates with high-performance UV-Vis photodetection. <i>Nanoscale Advances</i> , 2020 , 2, 1333-1339	5.1	20
207	Stability of Perovskite Light Sources: Status and Challenges. <i>Advanced Optical Materials</i> , 2020 , 8, 1902018	12.1	26

206	Synthesis and optoelectronics of mixed-dimensional Bi/Te binary heterostructures. <i>Nanoscale Horizons</i> , 2020 , 5, 847-856	10.8	17
205	Low-dimensional saturable absorbers for ultrafast photonics in solid-state bulk lasers: status and prospects. <i>Nanophotonics</i> , 2020 , 9, 2603-2639	6.3	16
204	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. <i>Chemistry of Materials</i> , 2020 , 32, 1703-1747	9.6	197
203	Two-dimensional nanomaterial-based plasmonic sensing applications: Advances and challenges. <i>Coordination Chemistry Reviews</i> , 2020 , 410, 213218	23.2	36
202	Emerging black phosphorus analogue nanomaterials for high-performance device applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1172-1197	7.1	28
201	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
200	2D Material Optoelectronics for Information Functional Device Applications: Status and Challenges. <i>Advanced Science</i> , 2020 , 7, 2000058	13.6	84
199	Photocarrier relaxation pathways in selenium quantum dots and their application in UV-Vis photodetection. <i>Nanoscale</i> , 2020 , 12, 11232-11241	7.7	9
198	Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity. <i>Advanced Materials</i> , 2020 , 32, e2001082	24	80
197	Generation, optimization, and application of ultrashort femtosecond pulse in mode-locked fiber lasers. <i>Progress in Quantum Electronics</i> , 2020 , 71, 100264	9.1	27
196	Recent advances in emerging Janus two-dimensional materials: from fundamental physics to device applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8813-8830	13	70
195	Sub-hundred nanosecond pulse generation from a black phosphorus Q-switched Er-doped fiber laser. <i>Optics Express</i> , 2020 , 28, 4708-4716	3.3	10
194	Ultrafast fiber lasers mode-locked by two-dimensional materials: review and prospect. <i>Photonics Research</i> , 2020 , 8, 78	6	173
193	Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. <i>Nanophotonics</i> , 2020 , 9, 3023-3034	6.3	4
192	MXene saturable absorber enabled hybrid mode-locking technology: a new routine of advancing femtosecond fiber lasers performance. <i>Nanophotonics</i> , 2020 , 9, 2451-2458	6.3	27
191	Advances in photonics of recently developed Xenos. <i>Nanophotonics</i> , 2020 , 9, 1621-1649	6.3	6
190	MXene: two dimensional inorganic compounds, for generation of bound state soliton pulses in nonlinear optical system. <i>Nanophotonics</i> , 2020 , 9, 2505-2513	6.3	26
189	Recent investigations on nonlinear absorption properties of carbon nanotubes. <i>Nanophotonics</i> , 2020 , 9, 761-781	6.3	19

188	Highly stable MXene (V2CTx)-based harmonic pulse generation. <i>Nanophotonics</i> , 2020 , 9, 2577-2585	6.3	24
187	Tellurium@Selenium core-shell hetero-junction: Facile synthesis, nonlinear optics, and ultrafast photonics applications towards mid-infrared regime. <i>Applied Materials Today</i> , 2020 , 20, 100657	6.6	5
186	The chemistry of colloidal semiconductor nanocrystals: From metal-chalcogenides to emerging perovskite. <i>Coordination Chemistry Reviews</i> , 2020 , 418, 213333	23.2	11
185	2D van der Waals heterostructures: processing, optical properties and applications in ultrafast photonics. <i>Materials Horizons</i> , 2020 , 7, 2903-2921	14.4	18
184	Recent advances in real-time spectrum measurement of soliton dynamics by dispersive Fourier transformation. <i>Reports on Progress in Physics</i> , 2020 , 83, 116401	14.4	6
183	Ultraeffective Cancer Therapy with an Antimonene-Based X-Ray Radiosensitizer. <i>Advanced Functional Materials</i> , 2020 , 30, 1906010	15.6	41
182	Self-Powered Photodetectors Based on 2D Materials. <i>Advanced Optical Materials</i> , 2020 , 8, 1900765	8.1	105
181	Recent advances in solution-processed photodetectors based on inorganic and hybrid photo-active materials. <i>Nanoscale</i> , 2020 , 12, 2201-2227	7.7	44
180	Recent Progress in 2D Material-Based Saturable Absorbers for All Solid-State Pulsed Bulk Lasers. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900240	8.3	47
179	Solar-Inspired Water Purification Based on Emerging 2D Materials: Status and Challenges. <i>Solar Rrl</i> , 2020 , 4, 1900400	7.1	81
178	The visible nonlinear optical properties and passively Q-switched laser application of a layered PtSe material. <i>Nanoscale</i> , 2020 , 12, 1061-1066	7.7	24
177	Passive mode-locking operation of a diode-pumped Tm:YAG laser with a MoS2 saturable absorber. <i>Optics and Laser Technology</i> , 2020 , 124, 105986	4.2	7
176	Mid-Infrared Photonics Using 2D Materials: Status and Challenges. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900098	8.3	68
175	The codopant assisted tunable photoluminescence and highly efficient CW lasers in Nd ³⁺ :SrF ₂ crystal. <i>Journal of Luminescence</i> , 2020 , 219, 116911	3.8	4
174	Recent advances of low-dimensional materials in Mid- and Far-infrared photonics. <i>Applied Materials Today</i> , 2020 , 21, 100800	6.6	9
173	Two-Dimensional Black Arsenic Phosphorus for Ultrafast Photonics in Near- and Mid-Infrared Regimes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46509-46518	9.5	18
172	Zero-Dimensional MXene-Based Optical Devices for Ultrafast and Ultranarrow Photonics Applications. <i>Advanced Science</i> , 2020 , 7, 2002209	13.6	27
171	Recent development and advances in Photodetectors based on two-dimensional topological insulators. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15526-15574	7.1	14

170	Niobium Carbide MXenes with Broad-Band Nonlinear Optical Response and Ultrafast Carrier Dynamics. <i>ACS Nano</i> , 2020 , 14, 10492-10502	16.7	37
169	Ti3C2Tx MXene Quantum Dots with Enhanced Stability for Ultrafast Photonics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11850-11860	5.6	15
168	Advancing Applications of Black Phosphorus and BP-Analog Materials in Photo/Electrocatalysis through Structure Engineering and Surface Modulation. <i>Advanced Science</i> , 2020 , 7, 2001431	13.6	20
167	Structures, properties and application of 2D monoelemental materials (Xenes) as graphene analogues under defect engineering. <i>Nano Today</i> , 2020 , 35, 100906	17.9	51
166	NiS2 as a broadband saturable absorber for ultrafast pulse lasers. <i>Optics and Laser Technology</i> , 2020 , 132, 106492	4.2	9
165	Janus nanoparticles for cellular delivery chemotherapy: Recent advances and challenges. <i>Coordination Chemistry Reviews</i> , 2020 , 422, 213467	23.2	19
164	Revival of Zeolite-Templated Nanocarbon Materials: Recent Advances in Energy Storage and Conversion. <i>Advanced Science</i> , 2020 , 7, 2001335	13.6	18
163	Brain-targeted delivery shuttled by black phosphorus nanostructure to treat Parkinson's disease. <i>Biomaterials</i> , 2020 , 260, 120339	15.6	33
162	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. <i>Nano-Micro Letters</i> , 2020 , 12, 167	19.5	35
161	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. <i>Light: Science and Applications</i> , 2020 , 9, 161	16.7	68
160	Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. <i>Advanced Functional Materials</i> , 2020 , 30, 2005223	15.6	78
159	Recent Advances in Semiconducting Monoelemental Selenium Nanostructures for Device Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2003301	15.6	18
158	Passively Q-switched near-infrared lasers with bismuthene quantum dots as the saturable absorber. <i>Optics and Laser Technology</i> , 2020 , 128, 106219	4.2	11
157	Van der Waals Integration of Bismuth Quantum Dots-Decorated Tellurium Nanotubes (Te@Bi) Heterojunctions and Plasma-Enhanced Optoelectronic Applications. <i>Small</i> , 2019 , 15, e1903233	11	27
156	Emerging 2D materials beyond graphene for ultrashort pulse generation in fiber lasers. <i>Nanoscale</i> , 2019 , 11, 2577-2593	7.7	187
155	2D group-VA fluorinated antimonene: synthesis and saturable absorption. <i>Nanoscale</i> , 2019 , 11, 1762-1769	7.7	39
154	A bismuthene-based multifunctional all-optical phase and intensity modulator enabled by photothermal effect. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 871-878	7.1	52
153	Broadband photodetectors based on 2D group IVA metal chalcogenides semiconductors. <i>Applied Materials Today</i> , 2019 , 15, 115-138	6.6	50

152	An All-Optical, Actively Q-Switched Fiber Laser by an Antimonene-Based Optical Modulator. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800313	8.3	91
151	Photothermal cancer immunotherapy by erythrocyte membrane-coated black phosphorus formulation. <i>Journal of Controlled Release</i> , 2019 , 296, 150-161	11.7	205
150	2D Black Phosphorus-Based Biomedical Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1808306	15.6	329
149	Engineering ultrafast charge transfer in a bismuthene/perovskite nanohybrid. <i>Nanoscale</i> , 2019 , 11, 2637-2643	7.7	38
148	Nonlinear Few-Layer MXene-Assisted All-Optical Wavelength Conversion at Telecommunication Band. <i>Advanced Optical Materials</i> , 2019 , 7, 1801777	8.1	64
147	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4774-4781	6.1	33
146	Biocompatible Two-Dimensional Titanium Nanosheets for Multimodal Imaging-Guided Cancer Theranostics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22129-22140	9.5	96
145	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. <i>Chemical Society Reviews</i> , 2019 , 48, 2891-2912	58.5	345
144	High-Speed and High-Responsivity Hybrid Silicon/Black-Phosphorus Waveguide Photodetectors at 2 μ m. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900032	8.3	48
143	MXene Ti ₃ C ₂ T _x : A Promising Photothermal Conversion Material and Application in All-Optical Modulation and All-Optical Information Loading. <i>Advanced Optical Materials</i> , 2019 , 7, 1900060	8.1	75
142	Enhanced Photodetection Properties of Tellurium@Selenium Roll-to-Roll Nanotube Heterojunctions. <i>Small</i> , 2019 , 15, e1900902	11	57
141	Polydopamine-functionalized black phosphorus quantum dots for cancer theranostics. <i>Applied Materials Today</i> , 2019 , 15, 297-304	6.6	67
140	Beta-lead oxide quantum dot (EPbO QD)/polystyrene (PS) composite films and their applications in ultrafast photonics. <i>Nanoscale</i> , 2019 , 11, 6828-6837	7.7	20
139	Biocompatible and biodegradable inorganic nanostructures for nanomedicine: Silicon and black phosphorus. <i>Nano Today</i> , 2019 , 25, 135-155	17.9	189
138	Two-dimensional tellurium-polymer membrane for ultrafast photonics. <i>Nanoscale</i> , 2019 , 11, 6235-6242	7.7	71
137	All-Optical Active Q-Switching: An All-Optical, Actively Q-Switched Fiber Laser by an Antimonene-Based Optical Modulator (Laser Photonics Rev. 13(4)/2019). <i>Laser and Photonics Reviews</i> , 2019 , 13, 1970020	8.3	3
136	Kerr Nonlinearity in 2D Graphdiyne for Passive Photonic Diodes. <i>Advanced Materials</i> , 2019 , 31, e1807981	12.4	136
135	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <i>Physics Reports</i> , 2019 , 795, 1-51	27.7	262

134	Many-Body Complexes in 2D Semiconductors. <i>Advanced Materials</i> , 2019 , 31, e1706945	24	199
133	Fully photon modulated heterostructure for neuromorphic computing. <i>Nano Energy</i> , 2019 , 65, 104000	17.1	45
132	2D GeP as a Novel Broadband Nonlinear Optical Material for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900123	8.3	53
131	In situ preparation of a CsPbBr/black phosphorus heterostructure with an optimized interface and photodetector application. <i>Nanoscale</i> , 2019 , 11, 16852-16859	7.7	39
130	Recent Developments in Stability and Passivation Techniques of Phosphorene toward Next-Generation Device Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1903419	15.6	69
129	NiPS nanoflakes: a nonlinear optical material for ultrafast photonics. <i>Nanoscale</i> , 2019 , 11, 14383-14391	7.7	26
128	Recent progress in black phosphorus and black-phosphorus-analogue materials: properties, synthesis and applications. <i>Nanoscale</i> , 2019 , 11, 14491-14527	7.7	149
127	Black phosphorus quantum dot based all-optical signal processing: ultrafast optical switching and wavelength converting. <i>Nanotechnology</i> , 2019 , 30, 415202	3.4	19
126	2D V-V Binary Materials: Status and Challenges. <i>Advanced Materials</i> , 2019 , 31, e1902352	24	236
125	Recent progress in ultrafast lasers based on 2D materials as a saturable absorber. <i>Applied Physics Reviews</i> , 2019 , 6, 041304	17.3	82
124	Epitaxial Growth of Topological Insulators on Semiconductors (Bi ₂ Se ₃ /Te@Se) toward High-Performance Photodetectors. <i>Small Methods</i> , 2019 , 3, 1900349	12.8	26
123	Halogenated Antimonene: One-Step Synthesis, Structural Simulation, Tunable Electronic and Photoresponse Property. <i>Advanced Functional Materials</i> , 2019 , 29, 1905857	15.6	21
122	Self-Healable Black Phosphorus Photodetectors. <i>Advanced Functional Materials</i> , 2019 , 29, 1906610	15.6	31
121	Bismuth quantum dots as an optical saturable absorber for a 1.3 μ m Q-switched solid-state laser. <i>Applied Optics</i> , 2019 , 58, 1621-1625	1.7	14
120	Continuous-wave and Q-switched Nd:BGO lasers based on bismuth nanosheets absorber. <i>Applied Optics</i> , 2019 , 58, 6545-6548	1.7	4
119	All-optical signal processing in few-layer bismuthene coated microfiber: towards applications in optical fiber systems. <i>Optics Express</i> , 2019 , 27, 16798-16811	3.3	15
118	Ultrafast pulse lasers based on two-dimensional nanomaterials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 188101	0.6	9
117	2D Layered Materials: Synthesis, Nonlinear Optical Properties, and Device Applications. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800327	8.3	203

116	Recent advances in multiphoton microscopy combined with nanomaterials in the field of disease evolution and clinical applications to liver cancer. <i>Nanoscale</i> , 2019 , 11, 19619-19635	7.7	14
115	Passively Q-switched operation of in-band pumped Ho:YLF based on Ti3C2Tx MXene. <i>Infrared Physics and Technology</i> , 2019 , 103, 103076	2.7	13
114	The emerging ferroic orderings in two dimensions. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	7
113	Broadband Nonlinear Optical Response of InSe Nanosheets for the Pulse Generation From 1 to 2 μm . <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48281-48289	9.5	27
112	2D Black Phosphorus Saturable Absorbers for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2019 , 7, 1800224	8.1	172
111	A solid-state passively Q-switched Tm,Gd:CaF ₂ laser with a Ti3C2TxMXene absorber near 2 μm . <i>Laser Physics Letters</i> , 2019 , 16, 015803	1.5	57
110	Wideband tunable passively Q-switched fiber laser at 28 μm using a broadband carbon nanotube saturable absorber. <i>Photonics Research</i> , 2019 , 7, 14	6	23
109	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. <i>Nature Communications</i> , 2019 , 10, 28	17.4	309
108	2D Tellurium Based High-Performance All-Optical Nonlinear Photonic Devices. <i>Advanced Functional Materials</i> , 2019 , 29, 1806346	15.6	122
107	Two-dimensional non-layered selenium nanoflakes: facile fabrications and applications for self-powered photo-detector. <i>Nanotechnology</i> , 2019 , 30, 114002	3.4	100
106	MZI-Based All-Optical Modulator Using MXene Ti3C2Tx (T = F, O, or OH) Deposited Microfiber. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800532	6.8	69
105	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> , 2018 , 12, 1870013	8.3	34
104	Nonlinear Few-Layer Antimonene-Based All-Optical Signal Processing: Ultrafast Optical Switching and High-Speed Wavelength Conversion. <i>Advanced Optical Materials</i> , 2018 , 6, 1701287	8.1	79
103	All-Optical Phosphorene Phase Modulator with Enhanced Stability Under Ambient Conditions. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800016	8.3	118
102	Ultrathin 2D Transition Metal Carbides for Ultrafast Pulsed Fiber Lasers. <i>ACS Photonics</i> , 2018 , 5, 1808-1866	9.6	96
101	Ultrathin 2D Nonlayered Tellurium Nanosheets: Facile Liquid-Phase Exfoliation, Characterization, and Photoresponse with High Performance and Enhanced Stability. <i>Advanced Functional Materials</i> , 2018 , 28, 1705833	15.6	277
100	Broadband Nonlinear Photoresponse of 2D TiS ₂ for Ultrashort Pulse Generation and All-Optical Thresholding Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1701166	8.1	217
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