

Feng Zhang

List of Publications by Year in descending order

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269
papers

38,249
citations

1457

107
h-index

2940

189
g-index

272
all docs

272
docs citations

272
times ranked

20156
citing authors

#	ARTICLE	IF	CITATIONS
1	Narrow-bandgap materials for optoelectronics applications. <i>Frontiers of Physics</i> , 2022, 17, 1.	2.4	28
2	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2022, 122, 1127-1207.	23.0	103
3	Tunable engineering of photo- and electro-induced carrier dynamics in perovskite photoelectronic devices. <i>Science China Materials</i> , 2022, 65, 855-875.	3.5	9
4	Ultrafast photonics applications of emerging 2D-Xenes beyond graphene. <i>Nanophotonics</i> , 2022, 11, 1261-1284.	2.9	65
5	Nanocomposite hydrogels for biomedical applications. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	34
6	Photoelectronic properties and devices of 2D Xenes. <i>Journal of Materials Science and Technology</i> , 2022, 126, 44-59.	5.6	7
7	Recent advances and challenges on dark solitons in fiber lasers. <i>Optics and Laser Technology</i> , 2022, 152, 108116.	2.2	16
8	Recent Advances and Challenges in Ultrafast Photonics Enabled by Metal Nanomaterials. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	7
9	Gigahertz femtosecond laser-by a novel asymmetric one-dimensional photonic crystal saturable absorber device with defect layer. <i>Nanophotonics</i> , 2022, 11, 2939-2951.	2.9	11
10	Dynamics of broadband photoinduced species and enabled photodetection in MXenes. <i>Nanophotonics</i> , 2022, 11, 3139-3148.	2.9	6
11	Broadband saturable absorption in germanene for mode-locked Yb, Er, and Tm fiber lasers. <i>Nanophotonics</i> , 2022, 11, 3127-3137.	2.9	22
12	Optical-intensity modulators with PbTe thermoelectric nanopowders for ultrafast photonics. <i>Applied Materials Today</i> , 2022, 28, 101546.	2.3	38
13	Demonstration of high-stable self-mode-locking pulses based on self-focusing in fiber lasers. <i>Infrared Physics and Technology</i> , 2022, 125, 104244.	1.3	4
14	Mid-Infrared Optoelectronic Devices Based on Two-Dimensional Materials beyond Graphene: Status and Trends. <i>Nanomaterials</i> , 2022, 12, 2260.	1.9	16
15	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , 2021, 403, 126336.	6.6	40
16	Status and Outlook of Metal-Inorganic Semiconductor Metal Photodetectors. <i>Laser and Photonics Reviews</i> , 2021, 15, .	4.4	67
17	Low-dimensional nanomaterials enabled autoimmune disease treatments: Recent advances, strategies, and future challenges. <i>Coordination Chemistry Reviews</i> , 2021, 432, 213697.	9.5	5
18	Emerging Mono-Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2007584.	7.8	102

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19	Two-Dimensional Materials for Integrated Photonics: Recent Advances and Future Challenges. <i>Small Science</i> , 2021, 1, 2000053.	5.8	56
20	Recent advances in anisotropic two-dimensional materials and device applications. <i>Nano Research</i> , 2021, 14, 897-919.	5.8	69
21	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenes: Progress, Challenges, and Prospects. <i>Advanced Functional Materials</i> , 2021, 31, 2005957.	7.8	37
22	Recent Advances in Hybridization, Doping, and Functionalization of 2D Xenes. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	33
23	2D Nanomaterials for Tissue Engineering and Regenerative Nanomedicines: Recent Advances and Future Challenges. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001743.	3.9	88
24	Boron quantum dots all-optical modulator based on efficient photothermal effect. <i>Opto-Electronic Advances</i> , 2021, 4, 200032-200032.	6.4	13
25	Ultra-Small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photo-Electrochemical Photodetectors. <i>Small</i> , 2021, 17, e2005913.	5.2	50
26	Berlin Green Framework-Based Gas Sensor for Room-Temperature and High-Selectivity Detection of Ammonia. <i>Nano-Micro Letters</i> , 2021, 13, 63.	14.4	21
27	Hetero-MXenes: Theory, Synthesis, and Emerging Applications. <i>Advanced Materials</i> , 2021, 33, e2004129.	11.1	150
28	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. <i>Small</i> , 2021, 17, e2006054.	5.2	119
29	Nonlinear Photonics Using Low-Dimensional Metal-Halide Perovskites: Recent Advances and Future Challenges. <i>Advanced Materials</i> , 2021, 33, e2004446.	11.1	58
30	PbSe Nanocrystals Produced by Facile Liquid Phase Exfoliation for Efficient UV-Vis Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2010401.	7.8	35
31	Phase Transitions and Water Splitting Applications of 2D Transition Metal Dichalcogenides and Metal Phosphorous Trichalcogenides. <i>Advanced Science</i> , 2021, 8, 2002284.	5.6	47
32	Smart nano-micro platforms for ophthalmological applications: The state-of-the-art and future perspectives. <i>Biomaterials</i> , 2021, 270, 120682.	5.7	32
33	2D Materials Enabled Next-Generation Integrated Optoelectronics: from Fabrication to Applications. <i>Advanced Science</i> , 2021, 8, e2003834.	5.6	70
34	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.	3.6	23
35	Photodynamic immunotherapy of cancers based on nanotechnology: recent advances and future challenges. <i>Journal of Nanobiotechnology</i> , 2021, 19, 160.	4.2	54
36	Magnetic black phosphorus microbubbles for targeted tumor theranostics. <i>Nanophotonics</i> , 2021, 10, 3339-3358.	2.9	12

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37	Broadband and ultrafast all-optical switching based on transition metal carbide. <i>Nanophotonics</i> , 2021, 10, 2617-2623.	2.9	9
38	Water-Dispersible CsPbBr ₃ Perovskite Nanocrystals with Ultra-Stability and its Application in Electrochemical CO ₂ Reduction. <i>Nano-Micro Letters</i> , 2021, 13, 172.	14.4	20
39	Performance analysis of photo-electrochemical photodetector based on liquid-phase exfoliation few-layered graphdiyne nanosheets. <i>Nanophotonics</i> , 2021, 10, 2833-2845.	2.9	8
40	2D materials for bone therapy. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113970.	6.6	23
41	Applications of Few-Layer Nb ₂ C MXene: Narrow-Band Photodetectors and Femtosecond Mode-Locked Fiber Lasers. <i>ACS Nano</i> , 2021, 15, 954-965.	7.3	176
42	Material-based engineering of bacteria for cancer diagnosis and therapy. <i>Applied Materials Today</i> , 2021, 25, 101212.	2.3	4
43	Ultrafast photonics applications of zirconium carbide as a novel mode-locker for fiber lasers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16985-16990.	2.7	10
44	High-detectivity tin disulfide nanowire photodetectors with manipulation of localized ferroelectric polarization field. <i>Nanophotonics</i> , 2021, 10, 4637-4644.	2.9	4
45	Recent progress and strategies in photodetectors based on 2D inorganic/organic heterostructures. <i>2D Materials</i> , 2021, 8, 012001.	2.0	21
46	MXene-Based Materials for Solar Cell Applications. <i>Nanomaterials</i> , 2021, 11, 3170.	1.9	19
47	Ultraeffective Cancer Therapy with an Antimonene-Based X-Ray Radiosensitizer. <i>Advanced Functional Materials</i> , 2020, 30, 1906010.	7.8	57
48	Self-Powered Photodetectors Based on 2D Materials. <i>Advanced Optical Materials</i> , 2020, 8, 1900765.	3.6	245
49	Recent advances in solution-processed photodetectors based on inorganic and hybrid photo-active materials. <i>Nanoscale</i> , 2020, 12, 2201-2227.	2.8	71
50	Recent Progress in 2D Material-Based Saturable Absorbers for All Solid-State Pulsed Bulk Lasers. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900240.	4.4	111
51	Solar-Inspired Water Purification Based on Emerging 2D Materials: Status and Challenges. <i>Solar Rrl</i> , 2020, 4, 1900400.	3.1	133
52	The visible nonlinear optical properties and passively Q-switched laser application of a layered PtSe ₂ material. <i>Nanoscale</i> , 2020, 12, 1061-1066.	2.8	28
53	Passive mode-locking operation of a diode-pumped Tm:YAG laser with a MoS ₂ saturable absorber. <i>Optics and Laser Technology</i> , 2020, 124, 105986.	2.2	19
54	Mid-Infrared Photonics Using 2D Materials: Status and Challenges. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900098.	4.4	106

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55	The codopant assisted tunable photoluminescence and highly efficient CW lasers in Nd ³⁺ :SrF ₂ crystal. <i>Journal of Luminescence</i> , 2020, 219, 116911.	1.5	8
56	Recent advances of low-dimensional materials in Mid- and Far-infrared photonics. <i>Applied Materials Today</i> , 2020, 21, 100800.	2.3	27
57	Two-Dimensional Black Arsenic Phosphorus for Ultrafast Photonics in Near- and Mid-Infrared Regimes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46509-46518.	4.0	47
58	Zero-Dimensional MXene-Based Optical Devices for Ultrafast and Ultranarrow Photonics Applications. <i>Advanced Science</i> , 2020, 7, 2002209.	5.6	60
59	Recent development and advances in Photodetectors based on two-dimensional topological insulators. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15526-15574.	2.7	35
60	Niobium Carbide MXenes with Broad-Band Nonlinear Optical Response and Ultrafast Carrier Dynamics. <i>ACS Nano</i> , 2020, 14, 10492-10502.	7.3	96
61	Ti ₃ C ₂ T _x MXene Quantum Dots with Enhanced Stability for Ultrafast Photonics. <i>ACS Applied Nano Materials</i> , 2020, 3, 11850-11860.	2.4	38
62	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.	5.6	51
63	Structures, properties and application of 2D monoelemental materials (Xenes) as graphene analogues under defect engineering. <i>Nano Today</i> , 2020, 35, 100906.	6.2	107
64	NiS ₂ as a broadband saturable absorber for ultrafast pulse lasers. <i>Optics and Laser Technology</i> , 2020, 132, 106492.	2.2	16
65	Janus nanoparticles for cellular delivery chemotherapy: Recent advances and challenges. <i>Coordination Chemistry Reviews</i> , 2020, 422, 213467.	9.5	34
66	Revival of Zeolite-Templated Nanocarbon Materials: Recent Advances in Energy Storage and Conversion. <i>Advanced Science</i> , 2020, 7, 2001335.	5.6	42
67	Brain-targeted delivery shuttled by black phosphorus nanostructure to treat Parkinson's disease. <i>Biomaterials</i> , 2020, 260, 120339.	5.7	66
68	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. <i>Nano-Micro Letters</i> , 2020, 12, 167.	14.4	57
69	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. <i>Light: Science and Applications</i> , 2020, 9, 161.	7.7	145
70	Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2005223.	7.8	216
71	Recent Advances in Semiconducting Monoelemental Selenium Nanostructures for Device Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2003301.	7.8	93
72	Prodrug-Loaded Zirconium Carbide Nanosheets as a Novel Biophotonic Nanoplatform for Effective Treatment of Cancer. <i>Advanced Science</i> , 2020, 7, 2001191.	5.6	35

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73	Recent advances in photodynamic therapy based on emerging two-dimensional layered nanomaterials. Nano Research, 2020, 13, 1485-1508.	5.8	36
74	Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. Small Methods, 2020, 4, 2000250.	4.6	84
75	Bismuthene quantum dots based optical modulator for MIR lasers at $2\lambda^{1/4}m$. Optical Materials, 2020, 102, 109830.	1.7	22
76	Synthesis Techniques, Optoelectronic Properties, and Broadband Photodetection of Thin-Film Black Phosphorus. Advanced Optical Materials, 2020, 8, 2000045.	3.6	39
77	Ultrasensitive detection of microRNA using a bismuthene-enabled fluorescence quenching biosensor. Chemical Communications, 2020, 56, 7041-7044.	2.2	49
78	Emerging combination strategies with phototherapy in cancer nanomedicine. Chemical Society Reviews, 2020, 49, 8065-8087.	18.7	427
79	Emerging 2D pnictogens for catalytic applications: status and challenges. Journal of Materials Chemistry A, 2020, 8, 12887-12927.	5.2	32
80	Synthesis, properties and novel electrocatalytic applications of the 2D-borophene Xenes. Progress in Solid State Chemistry, 2020, 59, 100283.	3.9	65
81	Broadband nonlinear optical response in GeSe nanoplates and its applications in all-optical diode. Nanophotonics, 2020, 9, 2007-2015.	2.9	20
82	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. Nano Research, 2020, 13, 891-918.	5.8	36
83	Quantum confinement-induced enhanced nonlinearity and carrier lifetime modulation in two-dimensional tin sulfide. Nanophotonics, 2020, 9, 1963-1972.	2.9	22
84	Graphdiyne-Polymer Nanocomposite as a Broadband and Robust Saturable Absorber for Ultrafast Photonics. Laser and Photonics Reviews, 2020, 14, 1900367.	4.4	99
85	Site-Selective Bi_2Te_3 - $FeTe_2$ Heterostructure as a Broadband Saturable Absorber for Ultrafast Photonics. Laser and Photonics Reviews, 2020, 14, 1900409.	4.4	43
86	Two-dimensional porous coordination polymers and nano-composites for electrocatalysis and electrically conductive applications. Journal of Materials Chemistry A, 2020, 8, 14356-14383.	5.2	33
87	A nano-lateral heterojunction of selenium-coated tellurium for infrared-band soliton fiber lasers. Nanoscale, 2020, 12, 15252-15260.	2.8	11
88	Phosphorene-assisted silicon photonic modulator with fast response time. Nanophotonics, 2020, 9, 1973-1979.	2.9	24
89	Few-layer hexagonal bismuth telluride (Bi_2Te_3) nanoplates with high-performance UV-Vis photodetection. Nanoscale Advances, 2020, 2, 1333-1339.	2.2	33
90	Stability of Perovskite Light Sources: Status and Challenges. Advanced Optical Materials, 2020, 8, 1902012.	3.6	54

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91	Synthesis and optoelectronics of mixed-dimensional Bi/Te binary heterostructures. <i>Nanoscale Horizons</i> , 2020, 5, 847-856.	4.1	28
92	Low-dimensional saturable absorbers for ultrafast photonics in solid-state bulk lasers: status and prospects. <i>Nanophotonics</i> , 2020, 9, 2603-2639.	2.9	24
93	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. <i>Chemistry of Materials</i> , 2020, 32, 1703-1747.	3.2	429
94	Two-dimensional nanomaterial-based plasmonic sensing applications: Advances and challenges. <i>Coordination Chemistry Reviews</i> , 2020, 410, 213218.	9.5	74
95	Emerging black phosphorus analogue nanomaterials for high-performance device applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1172-1197.	2.7	54
96	High Efficiency Mesoscopic Solar Cells Using CsPbI ₃ Perovskite Quantum Dots Enabled by Chemical Interface Engineering. <i>Journal of the American Chemical Society</i> , 2020, 142, 3775-3783.	6.6	156
97	2D Material Optoelectronics for Information Functional Device Applications: Status and Challenges. <i>Advanced Science</i> , 2020, 7, 2000058.	5.6	215
98	Photocarrier relaxation pathways in selenium quantum dots and their application in UV-Vis photodetection. <i>Nanoscale</i> , 2020, 12, 11232-11241.	2.8	23
99	Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity. <i>Advanced Materials</i> , 2020, 32, e2001082.	11.1	171
100	Generation, optimization, and application of ultrashort femtosecond pulse in mode-locked fiber lasers. <i>Progress in Quantum Electronics</i> , 2020, 71, 100264.	3.5	89
101	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.	5.2	185
102	Passively Q-switched near-infrared lasers with bismuthene quantum dots as the saturable absorber. <i>Optics and Laser Technology</i> , 2020, 128, 106219.	2.2	23
103	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.	2.3	9
104	The chemistry of colloidal semiconductor nanocrystals: From metal-chalcogenides to emerging perovskite. <i>Coordination Chemistry Reviews</i> , 2020, 418, 213333.	9.5	23
105	2D van der Waals heterostructures: processing, optical properties and applications in ultrafast photonics. <i>Materials Horizons</i> , 2020, 7, 2903-2921.	6.4	44
106	Recent advances in real-time spectrum measurement of soliton dynamics by dispersive Fourier transformation. <i>Reports on Progress in Physics</i> , 2020, 83, 116401.	8.1	35
107	Sub-hundred nanosecond pulse generation from a black phosphorus Q-switched Er-doped fiber laser. <i>Optics Express</i> , 2020, 28, 4708.	1.7	23
108	Ultrafast fiber lasers mode-locked by two-dimensional materials: review and prospect. <i>Photonics Research</i> , 2020, 8, 78.	3.4	242

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109	Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. <i>Nanophotonics</i> , 2020, 9, 3023-3034.	2.9	7
110	MXene saturable absorber enabled hybrid mode-locking technology: a new routine of advancing femtosecond fiber lasers performance. <i>Nanophotonics</i> , 2020, 9, 2451-2458.	2.9	50
111	Advances in photonics of recently developed Xenes. <i>Nanophotonics</i> , 2020, 9, 1621-1649.	2.9	11
112	MXene: two dimensional inorganic compounds, for generation of bound state soliton pulses in nonlinear optical system. <i>Nanophotonics</i> , 2020, 9, 2505-2513.	2.9	55
113	Recent investigations on nonlinear absorption properties of carbon nanotubes. <i>Nanophotonics</i> , 2020, 9, 761-781.	2.9	25
114	Highly stable MXene (V_2CT_x)-based harmonic pulse generation. <i>Nanophotonics</i> , 2020, 9, 2577-2585.	2.9	83
115	Many-Body Complexes in 2D Semiconductors. <i>Advanced Materials</i> , 2019, 31, e1706945.	11.1	255
116	Fully photon modulated heterostructure for neuromorphic computing. <i>Nano Energy</i> , 2019, 65, 104000.	8.2	110
117	2D GeP as a Novel Broadband Nonlinear Optical Material for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900123.	4.4	76
118	<i>In situ</i> preparation of a $CsPbBr_3$ /black phosphorus heterostructure with an optimized interface and photodetector application. <i>Nanoscale</i> , 2019, 11, 16852-16859.	2.8	55
119	Recent Developments in Stability and Passivation Techniques of Phosphorene toward Next-Generation Device Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1903419.	7.8	113
120	$NiPS_3$ nanoflakes: a nonlinear optical material for ultrafast photonics. <i>Nanoscale</i> , 2019, 11, 14383-14391.	2.8	34
121	Recent progress in black phosphorus and black-phosphorus-analogue materials: properties, synthesis and applications. <i>Nanoscale</i> , 2019, 11, 14491-14527.	2.8	239
122	Black phosphorus quantum dot based all-optical signal processing: ultrafast optical switching and wavelength converting. <i>Nanotechnology</i> , 2019, 30, 415202.	1.3	30
123	2D V Binary Materials: Status and Challenges. <i>Advanced Materials</i> , 2019, 31, e1902352.	11.1	303
124	Recent progress in ultrafast lasers based on 2D materials as a saturable absorber. <i>Applied Physics Reviews</i> , 2019, 6, .	5.5	143
125	Epitaxial Growth of Topological Insulators on Semiconductors ($Bi_2Se_3/Te@Se$) toward High-Performance Photodetectors. <i>Small Methods</i> , 2019, 3, 1900349.	4.6	45
126	Halogenated Antimonene: One-Step Synthesis, Structural Simulation, Tunable Electronic and Photoresponse Property. <i>Advanced Functional Materials</i> , 2019, 29, 1905857.	7.8	33

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127	Self-Healable Black Phosphorus Photodetectors. <i>Advanced Functional Materials</i> , 2019, 29, 1906610.	7.8	48
128	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.	5.2	45
129	Emerging 2D materials beyond graphene for ultrashort pulse generation in fiber lasers. <i>Nanoscale</i> , 2019, 11, 2577-2593.	2.8	236
130	2D group-VA fluorinated antimonene: synthesis and saturable absorption. <i>Nanoscale</i> , 2019, 11, 1762-1769.	2.8	49
131	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.	2.7	67
132	Broadband photodetectors based on 2D group IVA metal chalcogenides semiconductors. <i>Applied Materials Today</i> , 2019, 15, 115-138.	2.3	82
133	An All-Optical, Actively Q-Switched Fiber Laser by an Antimonene-Based Optical Modulator. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800313.	4.4	122
134	Photothermal cancer immunotherapy by erythrocyte membrane-coated black phosphorus formulation. <i>Journal of Controlled Release</i> , 2019, 296, 150-161.	4.8	303
135	2D Black Phosphorus-Based Biomedical Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1808306.	7.8	438
136	Engineering ultrafast charge transfer in a bismuthene/perovskite nanohybrid. <i>Nanoscale</i> , 2019, 11, 2637-2643.	2.8	51
137	Nonlinear Few-Layer MXene-Assisted All-Optical Wavelength Conversion at Telecommunication Band. <i>Advanced Optical Materials</i> , 2019, 7, 1801777.	3.6	86
138	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 4774-4781.	2.5	46
139	Biocompatible Two-Dimensional Titanium Nanosheets for Multimodal Imaging-Guided Cancer Theranostics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22129-22140.	4.0	147
140	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 2891-2912.	18.7	482
141	High-Speed and High-Responsivity Hybrid Silicon/Black-Phosphorus Waveguide Photodetectors at 2-µm. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900032.	4.4	91
142	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.	3.6	115
143	Enhanced Photodetection Properties of Tellurium@Selenium Roll-to-Roll Nanotube Heterojunctions. <i>Small</i> , 2019, 15, e1900902.	5.2	120
144	Polydopamine-functionalized black phosphorus quantum dots for cancer theranostics. <i>Applied Materials Today</i> , 2019, 15, 297-304.	2.3	86

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145	Beta-lead oxide quantum dot (β -PbO QD)/polystyrene (PS) composite films and their applications in ultrafast photonics. <i>Nanoscale</i> , 2019, 11, 6828-6837.	2.8	33
146	Biocompatible and biodegradable inorganic nanostructures for nanomedicine: Silicon and black phosphorus. <i>Nano Today</i> , 2019, 25, 135-155.	6.2	240
147	Two-dimensional tellurium-polymer membrane for ultrafast photonics. <i>Nanoscale</i> , 2019, 11, 6235-6242.	2.8	104
148	All-Optical Active Q-switching: An All-Optical, Actively Q-switched Fiber Laser by an Antimonene-Based Optical Modulator (<i>Laser Photonics Rev.</i> 13(4)/2019). <i>Laser and Photonics Reviews</i> , 2019, 13, 1970020.	4.4	4
149	Kerr Nonlinearity in 2D Graphdiyne for Passive Photonic Diodes. <i>Advanced Materials</i> , 2019, 31, e1807981.	11.1	187
150	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <i>Physics Reports</i> , 2019, 795, 1-51.	10.3	303
151	2D Layered Materials: Synthesis, Nonlinear Optical Properties, and Device Applications. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800327.	4.4	353
152	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.	2.8	20
153	Passively Q-switched operation of in-band pumped Ho:YLF based on Ti ₃ C ₂ T _x MXene. <i>Infrared Physics and Technology</i> , 2019, 103, 103076.	1.3	16
154	The emerging ferroic orderings in two dimensions. <i>Science China Information Sciences</i> , 2019, 62, 1.	2.7	8
155	Broadband Nonlinear Optical Response of InSe Nanosheets for the Pulse Generation From 1 to 2 μ m. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48281-48289.	4.0	51
156	2D Black Phosphorus Saturable Absorbers for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2019, 7, 1800224.	3.6	235
157	A solid-state passively Q-switched Tm,Gd:CaF ₂ laser with a Ti ₃ C ₂ T _x MXene absorber near 2 μ m. <i>Laser Physics Letters</i> , 2019, 16, 015803.	0.6	69
158	Wideband tunable passively Q-switched fiber laser at 28 μ m using a broadband carbon nanotube saturable absorber. <i>Photonics Research</i> , 2019, 7, 14.	3.4	37
159	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. <i>Nature Communications</i> , 2019, 10, 28.	5.8	475
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