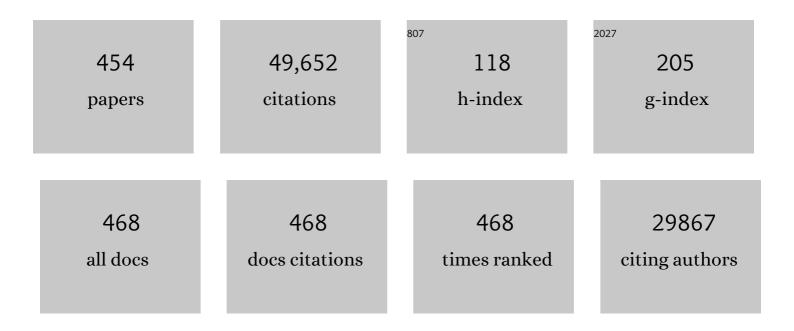
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Atomic‣ayer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. Advanced Functional Materials, 2009, 19, 3077-3083.	7.8	2,310
2	Broadband graphene polarizer. Nature Photonics, 2011, 5, 411-415.	15.6	961
3	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. Angewandte Chemie - International Edition, 2015, 54, 11526-11530.	7.2	906
4	Mechanically exfoliated black phosphorus as a new saturable absorber for both Q-switching and Mode-locking laser operation. Optics Express, 2015, 23, 12823.	1.7	866
5	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. Advanced Functional Materials, 2015, 25, 6996-7002.	7.8	862
6	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. Nature Communications, 2016, 7, 12967.	5.8	835
7	Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics. Advanced Materials, 2017, 29, 1603276.	11.1	721
8	Novel concept of the smart NIR-light–controlled drug release of black phosphorus nanostructure for cancer therapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 501-506.	3.3	657
9	Z-scan measurement of the nonlinear refractive index of graphene. Optics Letters, 2012, 37, 1856.	1.7	589
10	Broadband Nonlinear Photonics in Few‣ayer MXene Ti ₃ C ₂ T _x (T =) Tj E	ГQq0 0 0 r 4.4	gBT /Overloch
11	Recent developments in emerging two-dimensional materials and their applications. Journal of Materials Chemistry C, 2020, 8, 387-440.	2.7	501

12	Advances in nanomaterials for photodynamic therapy applications: Status and challenges. Biomaterials, 2020, 237, 119827.	5.7	484
13	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. Chemical Society Reviews, 2019, 48, 2891-2912.	18.7	482
14	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. Nature Communications, 2019, 10, 28.	5.8	475
15	Antimonene Quantum Dots: Synthesis and Application as Nearâ€Infrared Photothermal Agents for Effective Cancer Therapy. Angewandte Chemie - International Edition, 2017, 56, 11896-11900.	7.2	465
16	2D Black Phosphorus–Based Biomedical Applications. Advanced Functional Materials, 2019, 29, 1808306.	7.8	438
17	Graphene–Polymer Nanofiber Membrane for Ultrafast Photonics. Advanced Functional Materials, 2010, 20, 782-791.	7.8	434
18	Metalâ€ionâ€Modified Black Phosphorus with Enhanced Stability and Transistor Performance. Advanced Materials, 2017, 29, 1703811.	11.1	431

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#	Article	IF	CITATIONS
19	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. Chemistry of Materials, 2020, 32, 1703-1747.	3.2	429
20	Monolayer graphene as a saturable absorber in a mode-locked laser. Nano Research, 2011, 4, 297-307.	5.8	408
21	Microfiber-based few-layer black phosphorus saturable absorber for ultra-fast fiber laser. Optics Express, 2015, 23, 20030.	1.7	399
22	2D Layered Materials: Synthesis, Nonlinear Optical Properties, and Device Applications. Laser and Photonics Reviews, 2019, 13, 1800327.	4.4	353
23	Omnipotent phosphorene: a next-generation, two-dimensional nanoplatform for multidisciplinary biomedical applications. Chemical Society Reviews, 2018, 47, 5588-5601.	18.7	352
24	Ultrathin 2D Nonlayered Tellurium Nanosheets: Facile Liquidâ€Phase Exfoliation, Characterization, and Photoresponse with High Performance and Enhanced Stability. Advanced Functional Materials, 2018, 28, 1705833.	7.8	348
25	Two-Dimensional MXene (Ti ₃ C ₂)-Integrated Cellulose Hydrogels: Toward Smart Three-Dimensional Network Nanoplatforms Exhibiting Light-Induced Swelling and Bimodal Photothermal/Chemotherapy Anticancer Activity. ACS Applied Materials & amp; Interfaces, 2018, 10, 27631-27643.	4.0	346
26	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Selfâ€Powered Photodetector. Advanced Functional Materials, 2017, 27, 1606834.	7.8	342
27	Plant cell-surface GIPC sphingolipids sense salt to trigger Ca2+ influx. Nature, 2019, 572, 341-346.	13.7	341
28	Solvothermal Synthesis and Ultrafast Photonics of Black Phosphorus Quantum Dots. Advanced Optical Materials, 2016, 4, 1223-1229.	3.6	326
29	A Novel Topâ€Đown Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imagingâ€Guided Cancer Therapy. Advanced Materials, 2018, 30, e1803031.	11.1	318
30	Recent advances in two-dimensional-material-based sensing technology toward health and environmental monitoring applications. Nanoscale, 2020, 12, 3535-3559.	2.8	318
31	Twoâ€Đimensional Antimoneneâ€Based Photonic Nanomedicine for Cancer Theranostics. Advanced Materials, 2018, 30, e1802061.	11.1	314
32	Fewâ€layer Bismuthene: Sonochemical Exfoliation, Nonlinear Optics and Applications for Ultrafast Photonics with Enhanced Stability. Laser and Photonics Reviews, 2018, 12, 1700221.	4.4	311
33	2D Vâ€V Binary Materials: Status and Challenges. Advanced Materials, 2019, 31, e1902352.	11.1	303
34	Photothermal cancer immunotherapy by erythrocyte membrane-coated black phosphorus formulation. Journal of Controlled Release, 2019, 296, 150-161.	4.8	303
35	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. Physics Reports, 2019, 795, 1-51.	10.3	303
36	Few‣ayer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2017, 7, 1700396.	10.2	301

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37	MXeneâ€Enabled Electrochemical Microfluidic Biosensor: Applications toward Multicomponent Continuous Monitoring in Whole Blood. Advanced Functional Materials, 2019, 29, 1807326.	7.8	301
38	Two-Dimensional CH ₃ NH ₃ PbI ₃ Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. ACS Applied Materials & Interfaces, 2017, 9, 12759-12765.	4.0	296
39	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. Materials Horizons, 2017, 4, 997-1019.	6.4	296
40	Sub-200 fs soliton mode-locked fiber laser based on bismuthene saturable absorber. Optics Express, 2018, 26, 22750.	1.7	289
41	Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. Advanced Science, 2017, 4, 1600305.	5.6	285
42	Facile Synthesis of Black Phosphorus: an Efficient Electrocatalyst for the Oxygen Evolving Reaction. Angewandte Chemie - International Edition, 2016, 55, 13849-13853.	7.2	269
43	Broadband Nonlinear Optical Response in Fewâ€Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability. Advanced Optical Materials, 2017, 5, 1700301.	3.6	269
44	Ultrathin Metal–Organic Framework: An Emerging Broadband Nonlinear Optical Material for Ultrafast Photonics. Advanced Optical Materials, 2018, 6, 1800561.	3.6	268
45	Black phosphorus as saturable absorber for the Q-switched Er:ZBLAN fiber laser at 28 $\hat{1}$ /4m. Optics Express, 2015, 23, 24713.	1.7	259
46	Photonics and optoelectronics of two-dimensional materials beyond graphene. Nanotechnology, 2016, 27, 462001.	1.3	259
47	Highâ€Performance Photoâ€Electrochemical Photodetector Based on Liquidâ€Exfoliated Fewâ€Layered InSe Nanosheets with Enhanced Stability. Advanced Functional Materials, 2018, 28, 1705237.	7.8	258
48	Manyâ€Body Complexes in 2D Semiconductors. Advanced Materials, 2019, 31, e1706945.	11.1	255
49	Robust SnO _{2â^'<i>x</i>} Nanoparticleâ€Impregnated Carbon Nanofibers with Outstanding Electrochemical Performance for Advanced Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 8901-8905.	7.2	252
50	TiL ₄ oordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. Small, 2017, 13, 1602896.	5.2	251
51	Broadband Nonlinear Photoresponse of 2D TiS ₂ for Ultrashort Pulse Generation and Allâ€Optical Thresholding Devices. Advanced Optical Materials, 2018, 6, 1701166.	3.6	248
52	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. Biomaterials, 2016, 74, 144-154.	5.7	247
53	Two-dimensional material-based saturable absorbers: towards compact visible-wavelength all-fiber pulsed lasers. Nanoscale, 2016, 8, 1066-1072.	2.8	246
54	Many-body Effect, Carrier Mobility, and Device Performance of Hexagonal Arsenene and Antimonene. Chemistry of Materials, 2017, 29, 2191-2201.	3.2	244

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55	Black phosphorus: a two-dimension saturable absorption material for mid-infrared Q-switched and mode-locked fiber lasers. Scientific Reports, 2016, 6, 30361.	1.6	242
56	Biocompatible and biodegradable inorganic nanostructures for nanomedicine: Silicon and black phosphorus. Nano Today, 2019, 25, 135-155.	6.2	240
57	Emerging 2D materials beyond graphene for ultrashort pulse generation in fiber lasers. Nanoscale, 2019, 11, 2577-2593.	2.8	236
58	Flexible Transparent Electronic Gas Sensors. Small, 2016, 12, 3748-3756.	5.2	234
59	Present perspectives of broadband photodetectors based on nanobelts, nanoribbons, nanosheets and the emerging 2D materials. Nanoscale, 2016, 8, 6410-6434.	2.8	233
60	Ultrasmall Bismuth Quantum Dots: Facile Liquid-Phase Exfoliation, Characterization, and Application in High-Performance UV–Vis Photodetector. ACS Photonics, 2018, 5, 621-629.	3.2	230
61	Black Phosphorus–Polymer Composites for Pulsed Lasers. Advanced Optical Materials, 2015, 3, 1447-1453.	3.6	228
62	Flexible Transparent Films Based on Nanocomposite Networks of Polyaniline and Carbon Nanotubes for Highâ€Performance Gas Sensing. Small, 2015, 11, 5409-5415.	5.2	225
63	Microwave and optical saturable absorption in graphene. Optics Express, 2012, 20, 23201.	1.7	220
64	Few-layer black phosphorus based saturable absorber mirror for pulsed solid-state lasers. Optics Express, 2015, 23, 22643.	1.7	220
65	Recent Progress of Two-Dimensional Thermoelectric Materials. Nano-Micro Letters, 2020, 12, 36.	14.4	218
66	Shortâ€Chain Ligandâ€Passivated Stable αâ€CsPbI ₃ Quantum Dot for Allâ€Inorganic Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1900991.	7.8	216
67	Recent Advances in Functional 2D MXeneâ€Based Nanostructures for Nextâ€Generation Devices. Advanced Functional Materials, 2020, 30, 2005223.	7.8	216
68	Few‣ayer Tin Sulfide: A Promising Blackâ€Phosphorusâ€Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in Allâ€Optical Switching and Wavelength Conversion. Advanced Optical Materials, 2018, 6, 1700985.	3.6	212
69	Graphene–Bi ₂ Te ₃ Heterostructure as Saturable Absorber for Short Pulse Generation. ACS Photonics, 2015, 2, 832-841.	3.2	208
70	Graphene oxide/black phosphorus nanoflake aerogels with robust thermo-stability and significantly enhanced photothermal properties in air. Nanoscale, 2017, 9, 8096-8101.	2.8	207
71	Simultaneous voltammetric determination of acetaminophen and isoniazid using MXene modified screen-printed electrode. Biosensors and Bioelectronics, 2019, 130, 315-321.	5.3	207
72	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imagingâ€Guided Photothermal Therapy. Small, 2016, 12, 4136-4145.	5.2	203

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73	Vector soliton fiber laser passively mode locked by few layer black phosphorus-based optical saturable absorber. Optics Express, 2016, 24, 25933.	1.7	200
74	Conceptually Novel Black Phosphorus/Cellulose Hydrogels as Promising Photothermal Agents for Effective Cancer Therapy. Advanced Healthcare Materials, 2018, 7, e1701510.	3.9	188
75	Kerr Nonlinearity in 2D Graphdiyne for Passive Photonic Diodes. Advanced Materials, 2019, 31, e1807981.	11.1	187
76	Highly Efficient and Air-Stable Infrared Photodetector Based on 2D Layered Graphene–Black Phosphorus Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 36137-36145.	4.0	185
77	Recent advances in emerging Janus two-dimensional materials: from fundamental physics to device applications. Journal of Materials Chemistry A, 2020, 8, 8813-8830.	5.2	185
78	Black Phosphorus Based All-Optical-Signal-Processing: Toward High Performances and Enhanced Stability. ACS Photonics, 2017, 4, 1466-1476.	3.2	173
79	Graphdiyneâ€Based Flexible Photodetectors with High Responsivity and Detectivity. Advanced Materials, 2020, 32, e2001082.	11.1	171
80	Recent Advances in Emerging 2D Materialâ€Based Gas Sensors: Potential in Disease Diagnosis. Advanced Materials Interfaces, 2019, 6, 1901329.	1.9	169
81	Photonics and Optoelectronics of 2D Metalâ€Halide Perovskites. Small, 2018, 14, e1800682.	5.2	168
82	New Strategy for Polysulfide Protection Based on Atomic Layer Deposition of TiO ₂ onto Ferroelectricâ€Encapsulated Cathode: Toward Ultrastable Freeâ€Standing Room Temperature Sodium–Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1705537.	7.8	167
83	2D Tellurium Based Highâ€Performance Allâ€Optical Nonlinear Photonic Devices. Advanced Functional Materials, 2019, 29, 1806346.	7.8	165
84	All-Optical Switching of Two Continuous Waves in Few Layer Bismuthene Based on Spatial Cross-Phase Modulation. ACS Photonics, 2017, 4, 2852-2861.	3.2	164
85	Recent Advances in Oxidation Stable Chemistry of 2D MXenes. Advanced Materials, 2022, 34, e2107554.	11.1	163
86	2D Nonlayered Selenium Nanosheets: Facile Synthesis, Photoluminescence, and Ultrafast Photonics. Advanced Optical Materials, 2017, 5, 1700884.	3.6	162
87	A black/red phosphorus hybrid as an electrode material for high-performance Li-ion batteries and supercapacitors. Journal of Materials Chemistry A, 2017, 5, 6581-6588.	5.2	160
88	Self-Standing Polypyrrole/Black Phosphorus Laminated Film: Promising Electrode for Flexible Supercapacitor with Enhanced Capacitance and Cycling Stability. ACS Applied Materials & Interfaces, 2018, 10, 3538-3548.	4.0	159
89	Critical coupling with graphene-based hyperbolic metamaterials. Scientific Reports, 2014, 4, 5483.	1.6	158
90	ROS-Mediated Selective Killing Effect of Black Phosphorus: Mechanistic Understanding and Its Guidance for Safe Biomedical Applications. Nano Letters, 2020, 20, 3943-3955.	4.5	158

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91	High Efficiency Mesoscopic Solar Cells Using CsPbI ₃ Perovskite Quantum Dots Enabled by Chemical Interface Engineering. Journal of the American Chemical Society, 2020, 142, 3775-3783.	6.6	156
92	Allâ€Optical Phosphorene Phase Modulator with Enhanced Stability Under Ambient Conditions. Laser and Photonics Reviews, 2018, 12, 1800016.	4.4	155
93	Black-phosphorus-analogue tin monosulfide: an emerging optoelectronic two-dimensional material for high-performance photodetection with improved stability under ambient/harsh conditions. Journal of Materials Chemistry C, 2018, 6, 9582-9593.	2.7	153
94	Black phosphorus quantum dot based novel siRNA delivery systems in human pluripotent teratoma PA-1 cells. Journal of Materials Chemistry B, 2017, 5, 5433-5440.	2.9	152
95	Healable, Transparent, Roomâ€Temperature Electronic Sensors Based on Carbon Nanotube Networkâ€Coated Polyelectrolyte Multilayers. Small, 2015, 11, 5807-5813.	5.2	151
96	Size-dependent nonlinear optical properties of black phosphorus nanosheets and their applications in ultrafast photonics. Journal of Materials Chemistry C, 2017, 5, 3007-3013.	2.7	150
97	Fluorinated Phosphorene: Electrochemical Synthesis, Atomistic Fluorination, and Enhanced Stability. Small, 2017, 13, 1702739.	5.2	150
98	Heteroâ€MXenes: Theory, Synthesis, and Emerging Applications. Advanced Materials, 2021, 33, e2004129.	11.1	150
99	Ultrathin 2D Transition Metal Carbides for Ultrafast Pulsed Fiber Lasers. ACS Photonics, 2018, 5, 1808-1816.	3.2	148
100	Skyrmion dynamicsÂin a frustrated ferromagnetic filmÂand current-induced helicity locking-unlocking transition. Nature Communications, 2017, 8, 1717.	5.8	147
101	Biocompatible Two-Dimensional Titanium Nanosheets for Multimodal Imaging-Guided Cancer Theranostics. ACS Applied Materials & Interfaces, 2019, 11, 22129-22140.	4.0	147
102	Insights from nanotechnology in COVID-19 treatment. Nano Today, 2021, 36, 101019.	6.2	146
103	Nanoscale Parallel Circuitry Based on Interpenetrating Conductive Assembly for Flexible and Highâ€Power Zinc Ion Battery. Advanced Functional Materials, 2019, 29, 1901336.	7.8	145
104	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. Light: Science and Applications, 2020, 9, 161.	7.7	145
105	Recent progress in ultrafast lasers based on 2D materials as a saturable absorber. Applied Physics Reviews, 2019, 6, .	5.5	143
106	Layered Oxide Cathodes Promoted by Structure Modulation Technology for Sodiumâ€lon Batteries. Advanced Functional Materials, 2020, 30, 2001334.	7.8	142
107	Strong Depletion in Hybrid Perovskite p–n Junctions Induced by Local Electronic Doping. Advanced Materials, 2018, 30, e1705792.	11.1	141
108	Two-Dimensional Tellurium: Progress, Challenges, and Prospects. Nano-Micro Letters, 2020, 12, 99.	14.4	139

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109	Vector dissipative solitons in graphene mode locked fiber lasers. Optics Communications, 2010, 283, 3334-3338.	1.0	138
110	Chiral Perovskites: Promising Materials toward Nextâ€Generation Optoelectronics. Small, 2019, 15, e1902237.	5.2	137
111	Stabilization of Black Phosphorous Quantum Dots in PMMA Nanofiber Film and Broadband Nonlinear Optics and Ultrafast Photonics Application. Advanced Functional Materials, 2017, 27, 1702437.	7.8	136
112	Vector multi-soliton operation and interaction in a graphene mode-locked fiber laser. Optics Express, 2013, 21, 10010.	1.7	135
113	Solarâ€Inspired Water Purification Based on Emerging 2D Materials: Status and Challenges. Solar Rrl, 2020, 4, 1900400.	3.1	133
114	Eradication of tumor growth by delivering novel photothermal selenium-coated tellurium nanoheterojunctions. Science Advances, 2020, 6, eaay6825.	4.7	126
115	NIRâ€II Responsive Inorganic 2D Nanomaterials for Cancer Photothermal Therapy: Recent Advances and Future Challenges. Advanced Functional Materials, 2021, 31, 2101625.	7.8	126
116	Few‣ayer Phosphoreneâ€Decorated Microfiber for Allâ€Optical Thresholding and Optical Modulation. Advanced Optical Materials, 2017, 5, 1700026.	3.6	125
117	2 μm passively Q-switched laser based on black phosphorus. Optical Materials Express, 2016, 6, 2374.	1.6	124
118	THz photonics in two dimensional materials and metamaterials: properties, devices and prospects. Journal of Materials Chemistry C, 2018, 6, 1291-1306.	2.7	124
119	An Allâ€Optical, Actively Q‣witched Fiber Laser by an Antimoneneâ€Based Optical Modulator. Laser and Photonics Reviews, 2019, 13, 1800313.	4.4	122
120	Enhanced Photodetection Properties of Tellurium@Selenium Rollâ€ŧoâ€Roll Nanotube Heterojunctions. Small, 2019, 15, e1900902.	5.2	120
121	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. Small, 2021, 17, e2006054.	5.2	119
122	Polarization rotation vector solitons in a graphene mode-locked fiber laser. Optics Express, 2012, 20, 27283.	1.7	118
123	Carbon-based nanozymes for biomedical applications. Nano Research, 2021, 14, 570-583.	5.8	118
124	MXeneâ€Based Nonlinear Optical Information Converter for Allâ€Optical Modulator and Switcher. Laser and Photonics Reviews, 2018, 12, 1800215.	4.4	117
125	MXene Ti ₃ C ₂ T <i>_x</i> : A Promising Photothermal Conversion Material and Application in Allâ€Optical Modulation and Allâ€Optical Information Loading. Advanced Optical Materials, 2019, 7, 1900060.	3.6	115
126	Fundamental and harmonic mode-locking at 21 μm with black phosphorus saturable absorber. Optics Express, 2017, 25, 16916.	1.7	114

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127	Recent Developments in Stability and Passivation Techniques of Phosphorene toward Nextâ€Generation Device Applications. Advanced Functional Materials, 2019, 29, 1903419.	7.8	113
128	Recent Progress in 2D Materialâ€Based Saturable Absorbers for All Solidâ€State Pulsed Bulk Lasers. Laser and Photonics Reviews, 2020, 14, 1900240.	4.4	111
129	Few-layer selenium-doped black phosphorus: synthesis, nonlinear optical properties and ultrafast photonics applications. Journal of Materials Chemistry C, 2017, 5, 6129-6135.	2.7	109
130	Midâ€Infrared Photonics Using 2D Materials: Status and Challenges. Laser and Photonics Reviews, 2020, 14, 1900098.	4.4	106
131	Ultrathin GeSe Nanosheets: From Systematic Synthesis to Studies of Carrier Dynamics and Applications for a High-Performance UV–Vis Photodetector. ACS Applied Materials & Interfaces, 2019, 11, 4278-4287.	4.0	105
132	A flexible transparent colorimetric wrist strap sensor. Nanoscale, 2017, 9, 869-874.	2.8	104
133	Two-dimensional tellurium–polymer membrane for ultrafast photonics. Nanoscale, 2019, 11, 6235-6242.	2.8	104
134	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. Chemical Reviews, 2022, 122, 1127-1207.	23.0	103
135	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. Nature Communications, 2020, 11, 1330.	5.8	102
136	Emerging Monoâ€Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. Advanced Functional Materials, 2021, 31, 2007584.	7.8	102
137	Current status and prospects of memristors based on novel 2D materials. Materials Horizons, 2020, 7, 1495-1518.	6.4	101
138	Additive-mediated intercalation and surface modification of MXenes. Chemical Society Reviews, 2022, 51, 2972-2990.	18.7	101
139	Black phosphorus-based van der Waals heterostructures for mid-infrared light-emission applications. Light: Science and Applications, 2020, 9, 114.	7.7	100
140	Graphdiyneâ€Polymer Nanocomposite as a Broadband and Robust Saturable Absorber for Ultrafast Photonics. Laser and Photonics Reviews, 2020, 14, 1900367.	4.4	99
141	Nonlinear Few‣ayer Antimoneneâ€Based Allâ€Optical Signal Processing: Ultrafast Optical Switching and Highâ€ S peed Wavelength Conversion. Advanced Optical Materials, 2018, 6, 1701287.	3.6	97
142	Topological Insulator Solution Filled in Photonic Crystal Fiber for Passive Mode-Locked Fiber Laser. IEEE Photonics Technology Letters, 2015, 27, 264-267.	1.3	96
143	Niobium Carbide MXenes with Broad-Band Nonlinear Optical Response and Ultrafast Carrier Dynamics. ACS Nano, 2020, 14, 10492-10502.	7.3	96
144	Fieldâ€Induced nâ€Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. Advanced Functional Materials, 2017, 27, 1702211.	7.8	95

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145	Schottky Barriers in Bilayer Phosphorene Transistors. ACS Applied Materials & Interfaces, 2017, 9, 12694-12705.	4.0	94
146	Antimonene Quantum Dots: Synthesis and Application as Nearâ€Infrared Photothermal Agents for Effective Cancer Therapy. Angewandte Chemie, 2017, 129, 12058-12062.	1.6	93
147	Recent Advances in Semiconducting Monoelemental Selenium Nanostructures for Device Applications. Advanced Functional Materials, 2020, 30, 2003301.	7.8	93
148	Recent advances in doping engineering of black phosphorus. Journal of Materials Chemistry A, 2020, 8, 5421-5441.	5.2	93
149	Two-Dimensional Borophene: Properties, Fabrication, and Promising Applications. Research, 2020, 2020, 2624617.	2.8	93
150	Facile Synthesis of Black Phosphorus: an Efficient Electrocatalyst for the Oxygen Evolving Reaction. Angewandte Chemie, 2016, 128, 14053-14057.	1.6	92
151	Black phosphorus nanosheets for rapid microRNA detection. Nanoscale, 2018, 10, 5060-5064.	2.8	91
152	Mechanoâ€Based Transductive Sensing for Wearable Healthcare. Small, 2018, 14, e1702933.	5.2	91
153	High‧peed and Highâ€Responsivity Hybrid Silicon/Blackâ€Phosphorus Waveguide Photodetectors at 2µm. Laser and Photonics Reviews, 2019, 13, 1900032.	4.4	91
154	2D Material Chemistry: Graphdiyne-based Biochemical Sensing. Chemical Research in Chinese Universities, 2020, 36, 622-630.	1.3	91
155	Broadband ultrafast nonlinear optical response of few-layers graphene: toward the mid-infrared regime. Photonics Research, 2015, 3, 214.	3.4	90
156	Perovskite CsPbX ₃ : A Promising Nonlinear Optical Material and Its Applications for Ambient Allâ€Optical Switching with Enhanced Stability. Advanced Optical Materials, 2018, 6, 1800400.	3.6	90
157	Black Phosphorous/Indium Selenide Photoconductive Detector for Visible and Nearâ€Infrared Light with High Sensitivity. Advanced Optical Materials, 2019, 7, 1900020.	3.6	89
158	Recent Advances in Strain-Induced Piezoelectric and Piezoresistive Effect-Engineered 2D Semiconductors for Adaptive Electronics and Optoelectronics. Nano-Micro Letters, 2020, 12, 106.	14.4	89
159	Dual-wavelength Q-switched Er:SrF_2 laser with a black phosphorus absorber in the mid-infrared region. Optics Express, 2016, 24, 30289.	1.7	88
160	On-Nanowire Axial Heterojunction Design for High-Performance Photodetectors. ACS Nano, 2016, 10, 8474-8481.	7.3	88
161	2D Nanomaterials for Tissue Engineering and Regenerative Nanomedicines: Recent Advances and Future Challenges. Advanced Healthcare Materials, 2021, 10, e2001743.	3.9	88
162	Fewâ€Layer Topological Insulator for Allâ€Optical Signal Processing Using the Nonlinear Kerr Effect. Advanced Optical Materials, 2015, 3, 1769-1778.	3.6	87

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163	Inkjet-printed MXene micro-scale devices for integrated broadband ultrafast photonics. Npj 2D Materials and Applications, 2019, 3, .	3.9	87
164	Memristive devices based on emerging two-dimensional materials beyond graphene. Nanoscale, 2019, 11, 12413-12435.	2.8	87
165	MZIâ€Based Allâ€Optical Modulator Using MXene Ti ₃ C ₂ T <i>_x</i> (T =) Tj	ETOq1 1	0.784314 rg 87
166	Reassembly of ⁸⁹ Zrâ€Labeled Cancer Cell Membranes into Multicompartment Membraneâ€Derived Liposomes for PETâ€Trackable Tumorâ€Targeted Theranostics. Advanced Materials, 2018, 30, e1704934.	11.1	86
167	Nonlinear Few‣ayer MXeneâ€Assisted Allâ€Optical Wavelength Conversion at Telecommunication Band. Advanced Optical Materials, 2019, 7, 1801777.	3.6	86
168	Polydopamine-functionalized black phosphorus quantum dots for cancer theranostics. Applied Materials Today, 2019, 15, 297-304.	2.3	86
169	Graphene/phosphorene nano-heterojunction: facile synthesis, nonlinear optics, and ultrafast photonics applications with enhanced performance. Photonics Research, 2017, 5, 662.	3.4	85
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