

# Han Zhang

## List of Publications by Year in descending order

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1,019  
papers

87,967  
citations

172

154  
h-index

794

247  
g-index

1033  
all docs

1033  
docs citations

1033  
times ranked

47068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. <i>Advanced Functional Materials</i> , 2009, 19, 3077-3083.	7.8	2,310
2	Destructive extraction of phospholipids from Escherichia coli membranes by graphene nanosheets. <i>Nature Nanotechnology</i> , 2013, 8, 594-601.	15.6	1,260
3	Molybdenum disulfide (MoS <sub>2</sub> ) as a broadband saturable absorber for ultra-fast photonics. <i>Optics Express</i> , 2014, 22, 7249.	1.7	1,008
4	Broadband graphene polarizer. <i>Nature Photonics</i> , 2011, 5, 411-415.	15.6	961
5	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11526-11530.	7.2	906
6	Mechanically exfoliated black phosphorus as a new saturable absorber for both Q-switching and Mode-locking laser operation. <i>Optics Express</i> , 2015, 23, 12823.	1.7	866
7	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2015, 25, 6996-7002.	7.8	862
8	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. <i>Nature Communications</i> , 2016, 7, 12967.	5.8	835
9	Black Phosphorus Nanosheets as a Robust Delivery Platform for Cancer Theranostics. <i>Advanced Materials</i> , 2017, 29, 1603276.	11.1	721
10	Novel concept of the smart NIR-light-controlled drug release of black phosphorus nanostructure for cancer therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 501-506.	3.3	657
11	High yield exfoliation of two-dimensional chalcogenides using sodium naphthalenide. <i>Nature Communications</i> , 2014, 5, 2995.	5.8	655
12	Broadband nonlinear optical response in multi-layer black phosphorus: an emerging infrared and mid-infrared optical material. <i>Optics Express</i> , 2015, 23, 11183.	1.7	628
13	Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and applications. <i>Physics Reports</i> , 2020, 848, 1-58.	10.3	594
14	Z-scan measurement of the nonlinear refractive index of graphene. <i>Optics Letters</i> , 2012, 37, 1856.	1.7	589
15	Ultra-short pulse generation by a topological insulator based saturable absorber. <i>Applied Physics Letters</i> , 2012, 101, 211106.	1.5	551
16	Broadband Nonlinear Photonics in Few-Layer MXene Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (T =) Tj ETQq0,0 0 rgBT/O Overlock	4.4	550
17	Large energy mode locking of an erbium-doped fiber laser with atomic layer graphene. <i>Optics Express</i> , 2009, 17, 17630.	1.7	512
18	Recent developments in emerging two-dimensional materials and their applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 387-440.	2.7	501

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19	Advances in nanomaterials for photodynamic therapy applications: Status and challenges. <i>Biomaterials</i> , 2020, 237, 119827.	5.7	484
20	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 2891-2912.	18.7	482
21	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. <i>Nature Communications</i> , 2019, 10, 28.	5.8	475
22	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11896-11900.	7.2	465
23	Graphene mode locked, wavelength-tunable, dissipative soliton fiber laser. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	456
24	Large energy soliton erbium-doped fiber laser with a graphene-polymer composite mode locker. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	450
25	2D Black Phosphorus-Based Biomedical Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1808306.	7.8	438
26	Graphene-Polymer Nanofiber Membrane for Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2010, 20, 782-791.	7.8	434
27	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017, 29, 1703811.	11.1	431
28	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. <i>Chemistry of Materials</i> , 2020, 32, 1703-1747.	3.2	429
29	Emerging combination strategies with phototherapy in cancer nanomedicine. <i>Chemical Society Reviews</i> , 2020, 49, 8065-8087.	18.7	427
30	2-THz passively harmonic mode-locked fiber laser by a microfiber-based topological insulator saturable absorber. <i>Optics Letters</i> , 2013, 38, 5212.	1.7	415
31	Monolayer graphene as a saturable absorber in a mode-locked laser. <i>Nano Research</i> , 2011, 4, 297-307.	5.8	408
32	Ytterbium-doped fiber laser passively mode locked by few-layer Molybdenum Disulfide (MoS <sub>2</sub> ) saturable absorber functioned with evanescent field interaction. <i>Scientific Reports</i> , 2014, 4, 6346.	1.6	407
33	Wavelength-tunable picosecond soliton fiber laser with Topological Insulator: Bi <sub>2</sub> Se <sub>3</sub> as a mode locker. <i>Optics Express</i> , 2012, 20, 27888.	1.7	406
34	Microfiber-based few-layer black phosphorus saturable absorber for ultra-fast fiber laser. <i>Optics Express</i> , 2015, 23, 20030.	1.7	399
35	High-Efficiency Working-in-Tandem Nitrogen Photofixation Achieved by Assembling Plasmonic Gold Nanocrystals on Ultrathin Titania Nanosheets. <i>Journal of the American Chemical Society</i> , 2018, 140, 8497-8508.	6.6	382
36	Femtosecond pulse erbium-doped fiber laser by a few-layer MoS <sub>2</sub> saturable absorber. <i>Optics Letters</i> , 2014, 39, 4591.	1.7	356

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37	Flexible Organic Electronics in Biology: Materials and Devices. <i>Advanced Materials</i> , 2015, 27, 7493-7527.	11.1	353
38	2D Layered Materials: Synthesis, Nonlinear Optical Properties, and Device Applications. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800327.	4.4	353
39	Omnipotent phosphorene: a next-generation, two-dimensional nanoplatform for multidisciplinary biomedical applications. <i>Chemical Society Reviews</i> , 2018, 47, 5588-5601.	18.7	352
40	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.	7.8	348
41	Two-Dimensional MXene (Ti <sub>3</sub> C <sub>2</sub> )-Integrated Cellulose Hydrogels: Toward Smart Three-Dimensional Network Nanoplatforms Exhibiting Light-Induced Swelling and Bimodal Photothermal/Chemotherapy Anticancer Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27631-27643.	4.0	346
42	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Self-Powered Photodetector. <i>Advanced Functional Materials</i> , 2017, 27, 1606834.	7.8	342
43	Plant cell-surface GIPC sphingolipids sense salt to trigger Ca <sup>2+</sup> influx. <i>Nature</i> , 2019, 572, 341-346.	13.7	341
44	Solvothermal Synthesis and Ultrafast Photonics of Black Phosphorus Quantum Dots. <i>Advanced Optical Materials</i> , 2016, 4, 1223-1229.	3.6	326
45	A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy. <i>Advanced Materials</i> , 2018, 30, e1803031.	11.1	318
46	Recent advances in two-dimensional-material-based sensing technology toward health and environmental monitoring applications. <i>Nanoscale</i> , 2020, 12, 3535-3559.	2.8	318
47	Two-Dimensional Antimonene-Based Photonic Nanomedicine for Cancer Theranostics. <i>Advanced Materials</i> , 2018, 30, e1802061.	11.1	314
48	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. <i>Nature Communications</i> , 2017, 8, 278.	5.8	311
49	Few-Layer Bismuthene: Sonochemical Exfoliation, Nonlinear Optics and Applications for Ultrafast Photonics with Enhanced Stability. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700221.	4.4	311
50	Dissipative soliton resonance in an all-normaldispersion erbium-doped fiber laser. <i>Optics Express</i> , 2009, 17, 5580.	1.7	310
51	2D Van Der Waals Binary Materials: Status and Challenges. <i>Advanced Materials</i> , 2019, 31, e1902352.	11.1	303
52	Photothermal cancer immunotherapy by erythrocyte membrane-coated black phosphorus formulation. <i>Journal of Controlled Release</i> , 2019, 296, 150-161.	4.8	303
53	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <i>Physics Reports</i> , 2019, 795, 1-51.	10.3	303
54	Highly Efficient Circularly Polarized Electroluminescence from Aggregation-Induced Emission Luminogens with Amplified Chirality and Delayed Fluorescence. <i>Advanced Functional Materials</i> , 2018, 28, 1800051.	7.8	302

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55	Few-layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2017, 7, 1700396.	10.2	301
56	MXene-enabled Electrochemical Microfluidic Biosensor: Applications toward Multicomponent Continuous Monitoring in Whole Blood. <i>Advanced Functional Materials</i> , 2019, 29, 1807326.	7.8	301
57	Two-Dimensional $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12759-12765.	4.0	296
58	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017, 4, 997-1019.	6.4	296
59	Recent progress of study on optical solitons in fiber lasers. <i>Applied Physics Reviews</i> , 2019, 6, .	5.5	295
60	Sub-200 fs soliton mode-locked fiber laser based on bismuthene saturable absorber. <i>Optics Express</i> , 2018, 26, 22750.	1.7	289
61	Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. <i>Advanced Science</i> , 2017, 4, 1600305.	5.6	285
62	Flexible Organic Electrochemical Transistors for Highly Selective Enzyme Biosensors and Used for Saliva Testing. <i>Advanced Materials</i> , 2015, 27, 676-681.	11.1	278
63	Third order nonlinear optical property of $\text{Bi}_2\text{Se}_3$ . <i>Optics Express</i> , 2013, 21, 2072.	1.7	271
64	Facile Synthesis of Black Phosphorus: an Efficient Electrocatalyst for the Oxygen Evolving Reaction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13849-13853.	7.2	269
65	Broadband Nonlinear Optical Response in Few-layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability. <i>Advanced Optical Materials</i> , 2017, 5, 1700301.	3.6	269
66	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021, .	2.2	269
67	Ultrathin Metal-Organic Framework: An Emerging Broadband Nonlinear Optical Material for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2018, 6, 1800561.	3.6	268
68	Femtosecond pulse generation from a topological insulator mode-locked fiber laser. <i>Optics Express</i> , 2014, 22, 6868.	1.7	266
69	Few-layer antimonene decorated microfiber: ultra-short pulse generation and all-optical thresholding with enhanced long term stability. <i>2D Materials</i> , 2017, 4, 045010.	2.0	260
70	Black phosphorus as saturable absorber for the Q-switched Er:ZBLAN fiber laser at 28 $\mu\text{m}$ . <i>Optics Express</i> , 2015, 23, 24713.	1.7	259
71	Photonics and optoelectronics of two-dimensional materials beyond graphene. <i>Nanotechnology</i> , 2016, 27, 462001.	1.3	259
72	Ultrahigh $\text{P}^2$ -phase content poly(vinylidene fluoride) with relaxor-like ferroelectricity for high energy density capacitors. <i>Nature Communications</i> , 2019, 10, 4535.	5.8	259

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73	High-Performance Photo-Electrochemical Photodetector Based on Liquid-Exfoliated Few-Layered InSe Nanosheets with Enhanced Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1705237.	7.8	258
74	Solution processed MoS <sub>2</sub> -PVA composite for sub-bandgap mode-locking of a wideband tunable ultrafast Er:fiber laser. <i>Nano Research</i> , 2015, 8, 1522-1534.	5.8	256
75	Many-Body Complexes in 2D Semiconductors. <i>Advanced Materials</i> , 2019, 31, e1706945.	11.1	255
76	Overcoming barriers in photodynamic therapy harnessing nano-formulation strategies. <i>Chemical Society Reviews</i> , 2021, 50, 9152-9201.	18.7	254
77	Robust SnO <sub>2</sub> Nanoparticle-Impregnated Carbon Nanofibers with Outstanding Electrochemical Performance for Advanced Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8901-8905.	7.2	252
78	Ti <sub>4</sub> -Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. <i>Small</i> , 2017, 13, 1602896.	5.2	251
79	Broadband Nonlinear Photoresponse of 2D TiS <sub>2</sub> for Ultrashort Pulse Generation and All-Optical Thresholding Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1701166.	3.6	248
80	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , 2016, 74, 144-154.	5.7	247
81	Two-dimensional material-based saturable absorbers: towards compact visible-wavelength all-fiber pulsed lasers. <i>Nanoscale</i> , 2016, 8, 1066-1072.	2.8	246
82	Self-Powered Photodetectors Based on 2D Materials. <i>Advanced Optical Materials</i> , 2020, 8, 1900765.	3.6	245
83	Many-body Effect, Carrier Mobility, and Device Performance of Hexagonal Arsenene and Antimonene. <i>Chemistry of Materials</i> , 2017, 29, 2191-2201.	3.2	244
84	Black phosphorus: a two-dimension saturable absorption material for mid-infrared Q-switched and mode-locked fiber lasers. <i>Scientific Reports</i> , 2016, 6, 30361.	1.6	242
85	Ultrafast fiber lasers mode-locked by two-dimensional materials: review and prospect. <i>Photonics Research</i> , 2020, 8, 78.	3.4	242
86	Biocompatible and biodegradable inorganic nanostructures for nanomedicine: Silicon and black phosphorus. <i>Nano Today</i> , 2019, 25, 135-155.	6.2	240
87	Recent progress in black phosphorus and black-phosphorus-analogue materials: properties, synthesis and applications. <i>Nanoscale</i> , 2019, 11, 14491-14527.	2.8	239
88	Gold Nanorods: The Most Versatile Plasmonic Nanoparticles. <i>Chemical Reviews</i> , 2021, 121, 13342-13453.	23.0	237
89	Emerging 2D materials beyond graphene for ultrashort pulse generation in fiber lasers. <i>Nanoscale</i> , 2019, 11, 2577-2593.	2.8	236
90	2D Black Phosphorus Saturable Absorbers for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2019, 7, 1800224.	3.6	235

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91	Flexible Transparent Electronic Gas Sensors. <i>Small</i> , 2016, 12, 3748-3756.	5.2	234
92	Present perspectives of broadband photodetectors based on nanobelts, nanoribbons, nanosheets and the emerging 2D materials. <i>Nanoscale</i> , 2016, 8, 6410-6434.	2.8	233
93	Dissipative soliton operation of an ytterbium-doped fiber laser mode locked with atomic multilayer graphene. <i>Optics Letters</i> , 2010, 35, 3622.	1.7	230
94	Ultrasmall Bismuth Quantum Dots: Facile Liquid-Phase Exfoliation, Characterization, and Application in High-Performance UV-Vis Photodetector. <i>ACS Photonics</i> , 2018, 5, 621-629.	3.2	230
95	Black Phosphorus-Polymer Composites for Pulsed Lasers. <i>Advanced Optical Materials</i> , 2015, 3, 1447-1453.	3.6	228
96	Observation of High-Order Polarization-Locked Vector Solitons in a Fiber Laser. <i>Physical Review Letters</i> , 2008, 101, 153904.	2.9	226
97	Flexible Transparent Films Based on Nanocomposite Networks of Polyaniline and Carbon Nanotubes for High-Performance Gas Sensing. <i>Small</i> , 2015, 11, 5409-5415.	5.2	225
98	Microwave and optical saturable absorption in graphene. <i>Optics Express</i> , 2012, 20, 23201.	1.7	220
99	Few-layer black phosphorus based saturable absorber mirror for pulsed solid-state lasers. <i>Optics Express</i> , 2015, 23, 22643.	1.7	220
100	Multi-wavelength dissipative soliton operation of an erbium-doped fiber laser. <i>Optics Express</i> , 2009, 17, 12692.	1.7	218
101	Recent Progress of Two-Dimensional Thermoelectric Materials. <i>Nano-Micro Letters</i> , 2020, 12, 36.	14.4	218
102	Renewable energy: Present research and future scope of Artificial Intelligence. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 297-317.	8.2	216
103	Short-Chain Ligand-Passivated Stable $\text{InCsPb}_3$ Quantum Dot for All-Inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1900991.	7.8	216
104	Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2005223.	7.8	216
105	High sensitivity and good selectivity of ultralong $\text{MoO}_3$ nanobelts for trimethylamine gas. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 478-485.	4.0	215
106	2D Material Optoelectronics for Information Functional Device Applications: Status and Challenges. <i>Advanced Science</i> , 2020, 7, 2000058.	5.6	215
107	Compact graphene mode-locked wavelength-tunable erbium-doped fiber lasers: from all anomalous dispersion to all normal dispersion. <i>Laser Physics Letters</i> , 0, 7, 591-596.	0.6	214
108	Improved fracture toughness and integrated damage sensing capability by spray coated CNTs on carbon fibre prepreg. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 70, 102-110.	3.8	213

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109	Few-layer Tin Sulfide: A Promising Black Phosphorus Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in All-optical Switching and Wavelength Conversion. <i>Advanced Optical Materials</i> , 2018, 6, 1700985.	3.6	212
110	Current progress in black phosphorus materials and their applications in electrochemical energy storage. <i>Nanoscale</i> , 2017, 9, 13384-13403.	2.8	209
111	Topological insulator as an optical modulator for pulsed solid-state lasers. <i>Laser and Photonics Reviews</i> , 2013, 7, L77.	4.4	208
112	Graphene-Bi <sub>2</sub> Te <sub>3</sub> Heterostructure as Saturable Absorber for Short Pulse Generation. <i>ACS Photonics</i> , 2015, 2, 832-841.	3.2	208
113	Electrochemical analysis graphite/electrolyte interface in lithium-ion batteries: p-Toluenesulfonyl isocyanate as electrolyte additive. <i>Nano Energy</i> , 2017, 34, 131-140.	8.2	208
114	Graphene oxide/black phosphorus nanoflake aerogels with robust thermo-stability and significantly enhanced photothermal properties in air. <i>Nanoscale</i> , 2017, 9, 8096-8101.	2.8	207
115	Simultaneous voltammetric determination of acetaminophen and isoniazid using MXene modified screen-printed electrode. <i>Biosensors and Bioelectronics</i> , 2019, 130, 315-321.	5.3	207
116	Broadband optical and microwave nonlinear response in topological insulator. <i>Optical Materials Express</i> , 2014, 4, 587.	1.6	206
117	The Rise of 2D Photothermal Materials beyond Graphene for Clean Water Production. <i>Advanced Science</i> , 2020, 7, 1902236.	5.6	206
118	Metabolizable Ultrathin Bi <sub>2</sub> Se <sub>3</sub> Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , 2016, 12, 4136-4145.	5.2	203
119	Large Energy, Wavelength Widely Tunable, Topological Insulator Q-Switched Erbium-Doped Fiber Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 315-322.	1.9	201
120	Recent advances in two-dimensional materials and their nanocomposites in sustainable energy conversion applications. <i>Nanoscale</i> , 2019, 11, 21622-21678.	2.8	201
121	Vector soliton fiber laser passively mode locked by few layer black phosphorus-based optical saturable absorber. <i>Optics Express</i> , 2016, 24, 25933.	1.7	200
122	Few-layer bismuthene for ultrashort pulse generation in a dissipative system based on an evanescent field. <i>Nanoscale</i> , 2018, 10, 17617-17622.	2.8	189
123	Conceptually Novel Black Phosphorus/Cellulose Hydrogels as Promising Photothermal Agents for Effective Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701510.	3.9	188
124	Kerr Nonlinearity in 2D Graphdiyne for Passive Photonic Diodes. <i>Advanced Materials</i> , 2019, 31, e1807981.	11.1	187
125	Highly Efficient and Air-Stable Infrared Photodetector Based on 2D Layered Graphene-Black Phosphorus Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36137-36145.	4.0	185
126	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



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127	Surface Nanopore Engineering of 2D MXenes for Targeted and Synergistic Multitherapies of Hepatocellular Carcinoma. <i>Advanced Materials</i> , 2018, 30, e1706981.	11.1	182
128	Perspectives on solution processing of two-dimensional MXenes. <i>Materials Today</i> , 2021, 48, 214-240.	8.3	178
129	Switchable Dual-Wavelength Synchronously Q-Switched Erbium-Doped Fiber Laser Based on Graphene Saturable Absorber. <i>IEEE Photonics Journal</i> , 2012, 4, 869-876.	1.0	177
130	Applications of Few-Layer Nb <sub>2</sub> C MXene: Narrow-Band Photodetectors and Femtosecond Mode-Locked Fiber Lasers. <i>ACS Nano</i> , 2021, 15, 954-965.	7.3	176
131	Broadband and enhanced nonlinear optical response of MoS <sub>2</sub> /graphene nanocomposites for ultrafast photonics applications. <i>Scientific Reports</i> , 2015, 5, 16372.	1.6	174
132	Black Phosphorus Based All-Optical-Signal-Processing: Toward High Performances and Enhanced Stability. <i>ACS Photonics</i> , 2017, 4, 1466-1476.	3.2	173
133	Toward Stretchable Self-Powered Sensors Based on the Thermoelectric Response of PEDOT:PSS/Polyurethane Blends. <i>Advanced Functional Materials</i> , 2018, 28, 1704285.	7.8	171
134	Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity. <i>Advanced Materials</i> , 2020, 32, e2001082.	11.1	171
135	Recent Advances in Emerging 2D Material-Based Gas Sensors: Potential in Disease Diagnosis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901329.	1.9	169
136	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. <i>Small</i> , 2018, 14, e1800682.	5.2	168
137	Highly sensitive glucose sensors based on enzyme-modified whole-graphene solution-gated transistors. <i>Scientific Reports</i> , 2015, 5, 8311.	1.6	167
138	New Strategy for Polysulfide Protection Based on Atomic Layer Deposition of TiO <sub>2</sub> onto Ferroelectric-Encapsulated Cathode: Toward Ultrastable Free-Standing Room Temperature Sodium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705537.	7.8	167
139	Facile fabrication and characterization of two-dimensional bismuth(III) sulfide nanosheets for high-performance photodetector applications under ambient conditions. <i>Nanoscale</i> , 2018, 10, 2404-2412.	2.8	166
140	2D Tellurium Based High-Performance All-Optical Nonlinear Photonic Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1806346.	7.8	165
141	Phosphorus Science-Oriented Design and Synthesis of Multifunctional Nanomaterials for Biomedical Applications. <i>Matter</i> , 2020, 2, 297-322.	5.0	165
142	All-Optical Switching of Two Continuous Waves in Few Layer Bismuthene Based on Spatial Cross-Phase Modulation. <i>ACS Photonics</i> , 2017, 4, 2852-2861.	3.2	164
143	Microfiber-based few-layer MoS <sub>2</sub> saturable absorber for 25 GHz passively harmonic mode-locked fiber laser. <i>Optics Express</i> , 2014, 22, 22841.	1.7	163
144	Inorganic nano-carriers based smart drug delivery systems for tumor therapy. <i>Smart Materials in Medicine</i> , 2020, 1, 32-47.	3.7	163

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145	Recent Advances in Oxidation Stable Chemistry of 2D MXenes. <i>Advanced Materials</i> , 2022, 34, e2107554.	11.1	163
146	2D Nonlayered Selenium Nanosheets: Facile Synthesis, Photoluminescence, and Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2017, 5, 1700884.	3.6	162
147	Hybrid metamaterial switching for manipulating chirality based on VO <sub>2</sub> phase transition. <i>Scientific Reports</i> , 2016, 6, 23186.	1.6	161
148	Two-dimensional non-layered selenium nanoflakes: facile fabrications and applications for self-powered photo-detector. <i>Nanotechnology</i> , 2019, 30, 114002.	1.3	161
149	Enhanced photocatalytic activities of three-dimensional graphene-based aerogel embedding TiO <sub>2</sub> nanoparticles and loading MoS <sub>2</sub> nanosheets as Co-catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19502-19512.	3.8	160
150	A black/red phosphorus hybrid as an electrode material for high-performance Li-ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6581-6588.	5.2	160
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