

Jiamei Lin

List of Publications by Year in descending order

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Version: 2024-02-01

454
papers

49,652
citations

807

118
h-index

2027

205
g-index

468
all docs

468
docs citations

468
times ranked

29867
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional selenium and its composites for device applications. <i>Nano Research</i> , 2022, 15, 104-122.	5.8	26
2	High-performance polarization-sensitive photodetectors on two-dimensional In_2Se_3 . <i>National Science Review</i> , 2022, 9, nwab098.	4.6	75
3	Nanomaterials for neurodegenerative diseases: Molecular mechanisms guided design and applications. <i>Nano Research</i> , 2022, 15, 3299-3322.	5.8	7
4	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2022, 122, 1127-1207.	23.0	103
5	Recent Advances in Oxidation Stable Chemistry of 2D MXenes. <i>Advanced Materials</i> , 2022, 34, e2107554.	11.1	163
6	All-Optical Modulation Technology Based on 2D Layered Materials. <i>Micromachines</i> , 2022, 13, 92.	1.4	20
7	Photodetectors Based on $\text{MoS}_2/\text{MAPbBr}_3$ van der Waals Heterojunction. <i>IEEE Electron Device Letters</i> , 2022, 43, 414-417.	2.2	7
8	Optical Properties of Few-Layer Ti_3CN MXene: From Experimental Observations to Theoretical Calculations. <i>ACS Nano</i> , 2022, 16, 3059-3069.	7.3	46
9	Au Nanoparticle Modification Induces Charge-Transfer Channels to Enhance the Electrocatalytic Hydrogen Evolution Reaction of InSe Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2908-2917.	4.0	14
10	Characteristics, properties, synthesis and advanced applications of 2D graphdiyne versus graphene. <i>Materials Chemistry Frontiers</i> , 2022, 6, 528-552.	3.2	14
11	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
12	Vanadium Disulfide Nanosheets Synthesized by Facile Liquid-Phase Exfoliation for Ammonia Detection with High Selectivity. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	9
13	A Highly Sensitive CRISPR-Empowered Surface Plasmon Resonance Sensor for Diagnosis of Inherited Diseases with Femtomolar-Level Real-Time Quantification. <i>Advanced Science</i> , 2022, 9, e2105231.	5.6	30
14	Current advances in the imaging of atherosclerotic vulnerable plaque using nanoparticles. <i>Materials Today Bio</i> , 2022, 14, 100236.	2.6	11
15	Density Functional Investigation on In_2MoO_7 (100): Amines Adsorption and Surface Chemistry. <i>ACS Sensors</i> , 2022, 7, 1213-1221.	4.0	6
16	A Fully Integrated Flexible Tunable Chemical Sensor Based on Gold-Modified Indium Selenide Nanosheets. <i>ACS Sensors</i> , 2022, 7, 1183-1193.	4.0	29
17	Two-Dimensional Nitrogen-Doped Ti_3C_2 Promoted Catalysis Performance of Silver Nanozyme for Ultrasensitive Detection of Hydrogen Peroxide. <i>ChemElectroChem</i> , 2022, 9, .	1.7	8
18	2D-ultrathin MXene/DOXjade platform for iron chelation chemo-photothermal therapy. <i>Bioactive Materials</i> , 2022, 14, 76-85.	8.6	42

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19	Additive-mediated intercalation and surface modification of MXenes. <i>Chemical Society Reviews</i> , 2022, 51, 2972-2990.	18.7	101
20	An Assessment of MXenes through Scanning Probe Microscopy. <i>Small Methods</i> , 2022, 6, e2101599.	4.6	3
21	Recent Advances in SnSe Nanostructures beyond Thermoelectricity. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	28
22	Developments and Perspectives on Robust Nano- and Microstructured Binder-Free Electrodes for Bifunctional Water Electrolysis and Beyond. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	63
23	Dynamics of broadband photoinduced species and enabled photodetection in MXenes. <i>Nanophotonics</i> , 2022, 11, 3139-3148.	2.9	6
24	Broadband saturable absorption in germanene for mode-locked Yb, Er, and Tm fiber lasers. <i>Nanophotonics</i> , 2022, 11, 3127-3137.	2.9	22
25	A CRISPR/Cas12a-empowered surface plasmon resonance platform for rapid and specific diagnosis of the Omicron variant of SARS-CoV-2. <i>National Science Review</i> , 2022, 9, .	4.6	56
26	The rise of 2D materials/ferroelectrics for next generation photonics and optoelectronics devices. <i>APL Materials</i> , 2022, 10, .	2.2	23
27	Short-pulsed Raman fiber laser and its dynamics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	30
28	Insights from nanotechnology in COVID-19 treatment. <i>Nano Today</i> , 2021, 36, 101019.	6.2	146
29	MXene (Ti ₂ NTx): Synthesis, characteristics and application as a thermo-optical switcher for all-optical wavelength tuning laser. <i>Science China Materials</i> , 2021, 64, 259-265.	3.5	40
30	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , 2021, 403, 126336.	6.6	40
31	Carbon-based nanozymes for biomedical applications. <i>Nano Research</i> , 2021, 14, 570-583.	5.8	118
32	Transition Metal Dichalcogenides for Sensing and Oncotherapy: Status, Challenges, and Perspective. <i>Advanced Functional Materials</i> , 2021, 31, 2004408.	7.8	49
33	Recent progress, challenges, and prospects in emerging group-VIA Xenes: synthesis, properties and novel applications. <i>Nanoscale</i> , 2021, 13, 510-552.	2.8	23
34	Emerging Mono-Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2007584.	7.8	102
35	Ultrafast Surface Plasmon Resonance Imaging Sensor via the High-Precision Four-Parameter-Based Spectral Curve Readjusting Method. <i>Analytical Chemistry</i> , 2021, 93, 828-833.	3.2	17
36	Graphene/MoS ₂ /Graphene Vertical Heterostructure-Based Broadband Photodetector with High Performance. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001730.	1.9	65

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37	Recent advances on TMDCs for medical diagnosis. <i>Biomaterials</i> , 2021, 269, 120471.	5.7	30
38	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
39	Recent Advances in 2D Layered Phosphorous Compounds. <i>Small Methods</i> , 2021, 5, e2001068.	4.6	15
40	2D Nanomaterials for Tissue Engineering and Regenerative Nanomedicines: Recent Advances and Future Challenges. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001743.	3.9	88
41	Ultra-small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photoelectrochemical Photodetectors. <i>Small</i> , 2021, 17, e2005913.	5.2	50
42	Graphdiyne nanosheets as a platform for accurate copper(II) ion detection via click chemistry and fluorescence resonance energy transfer. <i>RSC Advances</i> , 2021, 11, 5320-5324.	1.7	7
43	Nanostructured metal nitrides for photocatalysts. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5323-5342.	2.7	14
44	Colloidal semiconductor nanocrystals: synthesis, optical nonlinearity, and related device applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6686-6721.	2.7	8
45	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
46	Novel synthesis, properties and applications of emerging group VA two-dimensional monoelemental materials (2D-Xenes). <i>Materials Chemistry Frontiers</i> , 2021, 5, 6333-6391.	3.2	18
47	MXene and black phosphorus based 2D nanomaterials in bioimaging and biosensing: progress and perspectives. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5195-5220.	2.9	38
48	Hetero-MXenes: Theory, Synthesis, and Emerging Applications. <i>Advanced Materials</i> , 2021, 33, e2004129.	11.1	150
49	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. <i>Small</i> , 2021, 17, e2006054.	5.2	119
50	Tailored negative/positive photoresponse of BP via doping. <i>Nanotechnology</i> , 2021, 32, 185201.	1.3	1
51	Nonlinear Photonics Using Low-Dimensional Metal-Halide Perovskites: Recent Advances and Future Challenges. <i>Advanced Materials</i> , 2021, 33, e2004446.	11.1	58
52	PbSe Nanocrystals Produced by Facile Liquid Phase Exfoliation for Efficient UV-Vis Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2010401.	7.8	35
53	Valley manipulation in monolayer transition metal dichalcogenides and their hybrid systems: status and challenges. <i>Reports on Progress in Physics</i> , 2021, 84, 026401.	8.1	54
54	Halogen Functionalization in the 2D Material Flatland: Strategies, Properties, and Applications. <i>Small</i> , 2021, 17, e2005640.	5.2	20

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55	Smart nano-micro platforms for ophthalmological applications: The state-of-the-art and future perspectives. <i>Biomaterials</i> , 2021, 270, 120682.	5.7	32
56	2D Materials Enabled Next-Generation Integrated Optoelectronics: from Fabrication to Applications. <i>Advanced Science</i> , 2021, 8, e2003834.	5.6	70
57	MXenes: MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics (Small 11/2021). <i>Small</i> , 2021, 17, 2170048.	5.2	3
58	Subwavelength-Polarized Quasi-Two-Dimensional Perovskite Single-Mode Nanolaser. <i>ACS Nano</i> , 2021, 15, 6900-6908.	7.3	47
59	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
60	Synergistic Photothermal and Chemical Therapy by Smart Dual-Functional Graphdiyne Nanosheets for Treatment of Parkinson's Disease. <i>Advanced Therapeutics</i> , 2021, 4, 2100082.	1.6	13
61	Photodynamic immunotherapy of cancers based on nanotechnology: recent advances and future challenges. <i>Journal of Nanobiotechnology</i> , 2021, 19, 160.	4.2	54
62	2D III-Nitride Materials: Properties, Growth, and Applications. <i>Advanced Materials</i> , 2021, 33, e2006761.	11.1	58
63	Repression of Interlayer Recombination by Graphene Generates a Sensitive Nanostructured 2D vdW Heterostructure Based Photodetector. <i>Advanced Science</i> , 2021, 8, e2100503.	5.6	28
64	Nano-bio interfaces effect of two-dimensional nanomaterials and their applications in cancer immunotherapy. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 3447-3464.	5.7	35
65	Magnetic black phosphorus microbubbles for targeted tumor theranostics. <i>Nanophotonics</i> , 2021, 10, 3339-3358.	2.9	12
66	2D Materials for Nonlinear Photonics and Electro-Optical Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100367.	1.9	30
67	Dynamic behaviors of multiple-soliton pulsation in an L-band passively mode-locked fiber laser with anomalous dispersion. <i>Chaos</i> , 2021, 31, 063122.	1.0	5
68	Broadband and ultrafast all-optical switching based on transition metal carbide. <i>Nanophotonics</i> , 2021, 10, 2617-2623.	2.9	9
69	Broadband, High-Sensitivity Graphene Photodetector Based on Ferroelectric Polarization of Lithium Niobate. <i>Advanced Optical Materials</i> , 2021, 9, 2100245.	3.6	35
70	Autologous tumor antigens and boron nanosheet-based nanovaccines for enhanced photo-immunotherapy against immune desert tumors. <i>Nanophotonics</i> , 2021, 10, 2519-2535.	2.9	8
71	Crystalline chirality and interlocked double hourglass Weyl fermion in polyhedra-intercalated transition metal dichalcogenides. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	12
72	NIR-Responsive Inorganic 2D Nanomaterials for Cancer Photothermal Therapy: Recent Advances and Future Challenges. <i>Advanced Functional Materials</i> , 2021, 31, 2101625.	7.8	126

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73	Quantum tunneling in two-dimensional van der Waals heterostructures and devices. <i>Science China Materials</i> , 2021, 64, 2359-2387.	3.5	15
74	Frontiers in Electronic and Optoelectronic Devices Based on 2D Materials. <i>Advanced Electronic Materials</i> , 2021, 7, 2100444.	2.6	8
75	Black Phosphorus/Polymers: Status and Challenges. <i>Advanced Materials</i> , 2021, 33, e2100113.	11.1	53
76	Defect Engineering in Ultrathin SnSe Nanosheets for High-Performance Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33226-33236.	4.0	35
77	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
78	pH-responsive black phosphorus quantum dots for tumor-targeted photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 35, 102429.	1.3	8
79	Navigating recent advances in monoelemental materials (Xenes)-fundamental to biomedical applications. <i>Progress in Solid State Chemistry</i> , 2021, 63, 100326.	3.9	20
80	Recent Progress on Metal-Based Nanomaterials: Fabrications, Optical Properties, and Applications in Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2021, 31, 2107363.	7.8	23
81	Low-Dimensional Black Phosphorus in Sensor Applications: Advances and Challenges. <i>Advanced Functional Materials</i> , 2021, 31, 2106484.	7.8	19
82	2D materials for bone therapy. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113970.	6.6	23
83	Fascinating MXene nanomaterials: emerging opportunities in the biomedical field. <i>Biomaterials Science</i> , 2021, 9, 5437-5471.	2.6	58
84	Tailoring the ultrafast and nonlinear photonics of MXenes through elemental replacement. <i>Nanoscale</i> , 2021, 13, 15891-15898.	2.8	11
85	Recent development in graphdiyne and its derivative materials for novel biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9461-9484.	2.9	19
86	A Regioselectively Oxidized 2D Bi/BiOx Lateral Nano-Heterostructure for Hypoxic Photodynamic Therapy. <i>Advanced Materials</i> , 2021, 33, e2102562.	11.1	54
87	Point and complex defects in monolayer PdSe_2 : Evolution of electronic structure and emergence of magnetism. <i>Physical Review B</i> , 2021, 104, .		
88	High-detectivity tin disulfide nanowire photodetectors with manipulation of localized ferroelectric polarization field. <i>Nanophotonics</i> , 2021, 10, 4637-4644.	2.9	4
89	MXene-Based Materials for Solar Cell Applications. <i>Nanomaterials</i> , 2021, 11, 3170.	1.9	19
90	Strategic Design of Intelligent-Responsive Nanogel Carriers for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54621-54647.	4.0	43

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91	A Facile Approach for Elementalâ€Doped Carbon Quantum Dots and Their Application for Efficient Photodetectors. <i>Small</i> , 2021, 17, e2105683.	5.2	16
92	CdS@CdSe Core/Shell Quantum Dots for Highly Improved Self-Powered Photodetection Performance. <i>Inorganic Chemistry</i> , 2021, 60, 18608-18613.	1.9	28
93	Recent Progress on Metalâ€Based Nanomaterials: Fabrications, Optical Properties, and Applications in Ultrafast Photonics (<i>Adv. Funct. Mater.</i> 49/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170364.	7.8	1
94	A Facile Approach for Elementalâ€Doped Carbon Quantum Dots and Their Application for Efficient Photodetectors (<i>Small</i> 52/2021). <i>Small</i> , 2021, 17, .	5.2	0
95	Dual-wavelength dissipative solitons in an anomalous-dispersion-cavity fiber laser. <i>Nanophotonics</i> , 2020, 9, 2361-2366.	2.9	9
96	Ultraeffective Cancer Therapy with an Antimoneneâ€Based Xâ€Ray Radiosensitizer. <i>Advanced Functional Materials</i> , 2020, 30, 1906010.	7.8	57
97	Inorganic 2D Luminescent Materials: Structure, Luminescence Modulation, and Applications. <i>Advanced Optical Materials</i> , 2020, 8, 1900978.	3.6	37
98	Highly Efficient Silicon Photonic Microheater Based on Black Arsenicâ€Phosphorus. <i>Advanced Optical Materials</i> , 2020, 8, 1901526.	3.6	26
99	A self-encapsulated broadband phototransistor based on a hybrid of graphene and black phosphorus nanosheets. <i>Nanoscale Advances</i> , 2020, 2, 1059-1065.	2.2	22
100	In-plane anisotropic electronics based on low-symmetry 2D materials: progress and prospects. <i>Nanoscale Advances</i> , 2020, 2, 109-139.	2.2	84
101	Recent advances in two-dimensional ferromagnetism: materials synthesis, physical properties and device applications. <i>Nanoscale</i> , 2020, 12, 2309-2327.	2.8	67
102	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
103	An antimonene/Cp*Rh(phen)Cl/black phosphorus hybrid nanosheet-based Z-scheme artificial photosynthesis for enhanced photo/bio-catalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 323-333.	5.2	71
104	Recent advances in solution-processed photodetectors based on inorganic and hybrid photo-active materials. <i>Nanoscale</i> , 2020, 12, 2201-2227.	2.8	71
105	An overview of the optical properties and applications of black phosphorus. <i>Nanoscale</i> , 2020, 12, 3513-3534.	2.8	69
106	A few-layer InSe-based sensitivity-enhanced photothermal fiber sensor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 132-138.	2.7	15
107	Recent Progress in 2D Materialâ€Based Saturable Absorbers for All Solidâ€State Pulsed Bulk Lasers. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900240.	4.4	111
108	Solarâ€Inspired Water Purification Based on Emerging 2D Materials: Status and Challenges. <i>Solar Rrl</i> , 2020, 4, 1900400.	3.1	133

#	ARTICLE	IF	CITATIONS
109	Recent developments in emerging two-dimensional materials and their applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 387-440.	2.7	501
110	Mid-Infrared Photonics Using 2D Materials: Status and Challenges. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900098.	4.4	106
111	Surface Nonlinear Optics on Centrosymmetric Dirac Nodal-Line Semimetal ZrSiS. <i>Advanced Materials</i> , 2020, 32, e1904498.	11.1	14
112	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
113	Two-dimensional monoelemental germanene nanosheets: facile preparation and optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16318-16325.	2.7	23
114	Tellurene Nanoflake-Based NO ₂ Sensors with Superior Sensitivity and a Sub-Parts-per-Billion Detection Limit. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47704-47713.	4.0	54
115	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
116	Niobium Carbide MXenes with Broad-Band Nonlinear Optical Response and Ultrafast Carrier Dynamics. <i>ACS Nano</i> , 2020, 14, 10492-10502.	7.3	96
117	Recent Advances in Twisted Structures of Flatland Materials and Crafting Moiré Superlattices. <i>Advanced Functional Materials</i> , 2020, 30, 2000878.	7.8	41
118	Recent Advance of Tellurium for Biomedical Applications. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 551-559.	1.3	11
119	Band structure tuning of \pm -MoO ₃ by tin intercalation for ultrafast photonic applications. <i>Nanoscale</i> , 2020, 12, 23140-23149.	2.8	20
120	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. <i>Communications Materials</i> , 2020, 1, .	2.9	23
121	2D Material Chemistry: Graphdiyne-based Biochemical Sensing. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 622-630.	1.3	91
122	Optoelectronic Gas Sensor Based on Few-Layered InSe Nanosheets for NO ₂ Detection with Ultrahigh Antihumidity Ability. <i>Analytical Chemistry</i> , 2020, 92, 11277-11287.	3.2	47
123	Recent Advances of Spatial Self-Phase Modulation in 2D Materials and Passive Photonic Device Applications. <i>Small</i> , 2020, 16, e2002252.	5.2	35
124	Two-Dimensional Gold Halides: Novel Semiconductors with Giant Spin-Orbit Splitting and Tunable Optoelectronic Properties. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9759-9765.	2.1	3
125	Artificial Carbon Graphdiyne: Status and Challenges in Nonlinear Photonic and Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49281-49296.	4.0	16
126	Two-Dimensional Black Phosphorus Nanomaterials: Emerging Advances in Electrochemical Energy Storage Science. <i>Nano-Micro Letters</i> , 2020, 12, 179.	14.4	82

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127	Brain-targeted delivery shuttled by black phosphorus nanostructure to treat Parkinson's disease. <i>Biomaterials</i> , 2020, 260, 120339.	5.7	66
128	Smart Acid-Activatable Self-Assembly of Black Phosphorous as Photosensitizer to Overcome Poor Tumor Retention in Photothermal Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 2003338.	7.8	25
129	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
130	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
131	Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2005223.	7.8	216
132	Emetine-Loaded Black Phosphorus Hydrogel Sensitizes Tumor to Photothermal Therapy through Inhibition of Stress Granule Formation. <i>Advanced Functional Materials</i> , 2020, 30, 2003891.	7.8	34
133	Recent Advances in Semiconducting Monoelemental Selenium Nanostructures for Device Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2003301.	7.8	93
134	Recent advance in near-infrared/ultrasound-sensitive 2D-nanomaterials for cancer therapeutics. <i>Science China Materials</i> , 2020, 63, 2397-2428.	3.5	56
135	Recent Advances in Strain-Induced Piezoelectric and Piezoresistive Effect-Engineered 2D Semiconductors for Adaptive Electronics and Optoelectronics. <i>Nano-Micro Letters</i> , 2020, 12, 106.	14.4	89
136	Recent advances in photodynamic therapy based on emerging two-dimensional layered nanomaterials. <i>Nano Research</i> , 2020, 13, 1485-1508.	5.8	36
137	Solution-gated transistors of two-dimensional materials for chemical and biological sensors: status and challenges. <i>Nanoscale</i> , 2020, 12, 11364-11394.	2.8	41
138	Recent advances in OD nanostructure-functionalized low-dimensional nanomaterials for chemiresistive gas sensors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7272-7299.	2.7	35
139	Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. <i>Small Methods</i> , 2020, 4, 2000250.	4.6	84
140	Control of dissipative rogue waves in nonlinear cavity optics: Optical injection and time-delayed feedback. <i>Chaos</i> , 2020, 30, 053103.	1.0	12
141	Synthesis Techniques, Optoelectronic Properties, and Broadband Photodetection of Thin-Film Black Phosphorus. <i>Advanced Optical Materials</i> , 2020, 8, 2000045.	3.6	39
142	Engineering Mono-Chalcogen Nanomaterials for Omnipotent Anticancer Applications: Progress and Challenges. <i>Advanced Healthcare Materials</i> , 2020, 9, 2000273.	3.9	11
143	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. <i>Nano Letters</i> , 2020, 20, 5359-5366.	4.5	51
144	Boosting Lithium Storage in Free-Standing Black Phosphorus Anode via Multifunction of Nanocellulose. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31628-31636.	4.0	48

#	ARTICLE	IF	CITATIONS
145	Emerging 2D pnictogens for catalytic applications: status and challenges. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12887-12927.	5.2	32
146	Semiconducting quantum dots: Modification and applications in biomedical science. <i>Science China Materials</i> , 2020, 63, 1631-1650.	3.5	33
147	Photodetectors: Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity (<i>Adv. Mater.</i> 23/2020). <i>Advanced Materials</i> , 2020, 32, 2070175.	11.1	5
148	Graphdiyne as a Promising Mid-Infrared Nonlinear Optical Material for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2020, 8, 2000067.	3.6	57
149	MXene Photonic Devices for Near-Infrared to Mid-Infrared Ultrashort Pulse Generation. <i>ACS Applied Nano Materials</i> , 2020, 3, 3513-3522.	2.4	42
150	Anisotropic Plasmonic Nanostructure Induced Polarization Photoresponse for MoS ₂ -Based Photodetector. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902179.	1.9	41
151	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. <i>Nano Research</i> , 2020, 13, 891-918.	5.8	36
152	Fano Resonance in Artificial Photonic Molecules. <i>Advanced Optical Materials</i> , 2020, 8, 1902153.	3.6	34
153	Recent progress in high-performance photo-detectors enabled by the pulsed laser deposition technology. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4988-5014.	2.7	18
154	ROS-Mediated Selective Killing Effect of Black Phosphorus: Mechanistic Understanding and Its Guidance for Safe Biomedical Applications. <i>Nano Letters</i> , 2020, 20, 3943-3955.	4.5	158
155	All-Optical Modulator Using MXene Inkjet-Printed Microring Resonator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-6.	1.9	25
156	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. <i>Nature Communications</i> , 2020, 11, 1330.	5.8	102
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