

Jiamei Lin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

443
papers

34,188
citations

97
h-index

173
g-index

468
ext. papers

41,845
ext. citations

10.2
avg, IF

7.83
L-index

#	Paper	IF	Citations
443	Photodetectors Based on MoS ₂ /MAPbBr ₃ Van der Waals Heterojunction. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	1
442	Optical Properties of Few-Layer TiCN MXene: From Experimental Observations to Theoretical Calculations.. <i>ACS Nano</i> , 2022 ,	16.7	6
441	All-Optical Modulation Technology Based on 2D Layered Materials.. <i>Micromachines</i> , 2022 , 13,	3.3	2
440	High-performance polarization-sensitive photodetectors on two-dimensional -InSe.. <i>National Science Review</i> , 2022 , 9, nwab098	10.8	13
439	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 , e2105231 ^{13.6}	13.6	2
438	Current advances in the imaging of atherosclerotic vulnerable plaque using nanoparticles.. <i>Materials Today Bio</i> , 2022 , 14, 100236	9.9	0
437	A Fully Integrated Flexible Tunable Chemical Sensor Based on Gold-Modified Indium Selenide Nanosheets.. <i>ACS Sensors</i> , 2022 ,	9.2	4
436	2D-ultrathin MXene/DOXjade platform for iron chelation chemo-photothermal therapy.. <i>Bioactive Materials</i> , 2022 , 14, 76-85	16.7	8
435	Additive-mediated intercalation and surface modification of MXenes.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	9
434	An Assessment of MXenes through Scanning Probe Microscopy.. <i>Small Methods</i> , 2022 , e2101599	12.8	0
433	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2021 ,	68.1	23
432	Recent Advances in Oxidation Stable Chemistry of Two-Dimensional MXenes. <i>Advanced Materials</i> , 2021 , e2107554	24	19
431	Strategic Design of Intelligent-Responsive Nanogel Carriers for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54621-54647	9.5	4
430	A Facile Approach for Elemental-Doped Carbon Quantum Dots and Their Application for Efficient Photodetectors. <i>Small</i> , 2021 , e2105683	11	7
429	Recent Progress on Metal-Based Nanomaterials: Fabrications, Optical Properties, and Applications in Ultrafast Photonics (Adv. Funct. Mater. 49/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170364	15.6	
428	Recent development in graphdiyne and its derivative materials for novel biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9461-9484	7.3	3
427	A Regioselectively Oxidized 2D Bi/BiOx Lateral Nano-Heterostructure for Hypoxic Photodynamic Therapy. <i>Advanced Materials</i> , 2021 , e2102562	24	16

426	Point and complex defects in monolayer PdSe ₂ : Evolution of electronic structure and emergence of magnetism. <i>Physical Review B</i> , 2021 , 104,	3.3	4
425	Smart nano-micro platforms for ophthalmological applications: The state-of-the-art and future perspectives. <i>Biomaterials</i> , 2021 , 270, 120682	15.6	7
424	2D Materials Enabled Next-Generation Integrated Optoelectronics: from Fabrication to Applications. <i>Advanced Science</i> , 2021 , 8, e2003834	13.6	13
423	MXenes: MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics (Small 11/2021). <i>Small</i> , 2021 , 17, 2170048	11	0
422	Subwavelength-Polarized Quasi-Two-Dimensional Perovskite Single-Mode Nanolaser. <i>ACS Nano</i> , 2021 , 15, 6900-6908	16.7	23
421	An Insightful Picture of Nonlinear Photonics in 2D Materials and their Applications: Recent Advances and Future Prospects. <i>Advanced Optical Materials</i> , 2021 , 9, 2001671	8.1	2
420	Synergistic Photothermal and Chemical Therapy by Smart Dual-Functional Graphdiyne Nanosheets for Treatment of Parkinson's Disease. <i>Advanced Therapeutics</i> , 2021 , 4, 2100082	4.9	5
419	Photodynamic immunotherapy of cancers based on nanotechnology: recent advances and future challenges. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 160	9.4	19
418	2D III-Nitride Materials: Properties, Growth, and Applications. <i>Advanced Materials</i> , 2021 , 33, e2006761	24	18
417	Repression of Interlayer Recombination by Graphene Generates a Sensitive Nanostructured 2D vdW Heterostructure Based Photodetector. <i>Advanced Science</i> , 2021 , 8, e2100503	13.6	13
416	Nano-bio interfaces effect of two-dimensional nanomaterials and their applications in cancer immunotherapy.. <i>Acta Pharmaceutica Sinica B</i> , 2021 , 11, 3447-3464	15.5	9
415	Magnetic black phosphorus microbubbles for targeted tumor theranostics. <i>Nanophotonics</i> , 2021 , 10, 3339-3358	6.3	6
414	2D Materials for Nonlinear Photonics and Electro-Optical Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100367	4.6	10
413	Dynamic behaviors of multiple-soliton pulsation in an L-band passively mode-locked fiber laser with anomalous dispersion. <i>Chaos</i> , 2021 , 31, 063122	3.3	1
412	Broadband and ultrafast all-optical switching based on transition metal carbide. <i>Nanophotonics</i> , 2021 , 10, 2617-2623	6.3	1
411	Broadband, High-Sensitivity Graphene Photodetector Based on Ferroelectric Polarization of Lithium Niobate. <i>Advanced Optical Materials</i> , 2021 , 9, 2100245	8.1	3
410	Autologous tumor antigens and boron nanosheet-based nanovaccines for enhanced photo-immunotherapy against immune desert tumors. <i>Nanophotonics</i> , 2021 , 10, 2519-2535	6.3	1
409	NIR-II Responsive Inorganic 2D Nanomaterials for Cancer Photothermal Therapy: Recent Advances and Future Challenges. <i>Advanced Functional Materials</i> , 2021 , 31, 2101625	15.6	23

408	Quantum tunneling in two-dimensional van der Waals heterostructures and devices. <i>Science China Materials</i> , 2021 , 64, 2359-2387	7.1	5
407	Frontiers in Electronic and Optoelectronic Devices Based on 2D Materials. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100444	6.4	1
406	Black Phosphorus/Polymers: Status and Challenges. <i>Advanced Materials</i> , 2021 , 33, e2100113	24	10
405	Defect Engineering in Ultrathin SnSe Nanosheets for High-Performance Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33226-33236	9.5	11
404	Short-pulsed Raman fiber laser and its dynamics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	18
403	Insights from nanotechnology in COVID-19 treatment. <i>Nano Today</i> , 2021 , 36, 101019	17.9	82
402	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	7.1	11
401	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , 2021 , 403, 126336	14.7	19
400	Carbon-based nanozymes for biomedical applications. <i>Nano Research</i> , 2021 , 14, 570-583	10	40
399	Transition Metal Dichalcogenides for Sensing and Oncotherapy: Status, Challenges, and Perspective. <i>Advanced Functional Materials</i> , 2021 , 31, 2004408	15.6	17
398	Recent progress, challenges, and prospects in emerging group-VIA Xenes: synthesis, properties and novel applications. <i>Nanoscale</i> , 2021 , 13, 510-552	7.7	9
397	Emerging Mono-Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2007584	15.6	17
396	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	7.8	6
395	Graphene/MoS ₂ /Graphene Vertical Heterostructure-Based Broadband Photodetector with High Performance. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001730	4.6	18
394	Recent advances on TMDCs for medical diagnosis. <i>Biomaterials</i> , 2021 , 269, 120471	15.6	10
393	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenes: Progress, Challenges, and Prospects. <i>Advanced Functional Materials</i> , 2021 , 31, 2005957	15.6	21
392	Recent Advances in 2D Layered Phosphorous Compounds.. <i>Small Methods</i> , 2021 , 5, e2001068	12.8	8
391	2D Nanomaterials for Tissue Engineering and Regenerative Nanomedicines: Recent Advances and Future Challenges. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001743	10.1	33

390	Ultra-Small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photo-Electrochemical Photodetectors. <i>Small</i> , 2021 , 17, e2005913	11	20
389	Graphdiyne nanosheets as a platform for accurate copper(ii) ion detection click chemistry and fluorescence resonance energy transfer.. <i>RSC Advances</i> , 2021 , 11, 5320-5324	3.7	2
388	Nanostructured metal nitrides for photocatalysts. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5323-5342	7.1	3
387	Berlin Green Framework-Based Gas Sensor for Room-Temperature and High-Selectivity Detection of Ammonia. <i>Nano-Micro Letters</i> , 2021 , 13, 63	19.5	6
386	Novel synthesis, properties and applications of emerging group VA two-dimensional monoelemental materials (2D-Xenes). <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6333-6391	7.8	7
385	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	7.3	7
384	Hetero-MXenes: Theory, Synthesis, and Emerging Applications. <i>Advanced Materials</i> , 2021 , 33, e2004129	24	58
383	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. <i>Small</i> , 2021 , 17, e2006054	41	41
382	Tailored negative/positive photoresponse of BP via doping. <i>Nanotechnology</i> , 2021 , 32, 185201	3.4	
381	Nonlinear Photonics Using Low-Dimensional Metal-Halide Perovskites: Recent Advances and Future Challenges. <i>Advanced Materials</i> , 2021 , 33, e2004446	24	24
380	PbSe Nanocrystals Produced by Facile Liquid Phase Exfoliation for Efficient UV-Vis Photodetectors. <i>Advanced Functional Materials</i> , 2021 , 31, 2010401	15.6	17
379	Valley manipulation in monolayer transition metal dichalcogenides and their hybrid systems: status and challenges. <i>Reports on Progress in Physics</i> , 2021 , 84, 026401	14.4	11
378	Halogen Functionalization in the 2D Material Flatland: Strategies, Properties, and Applications. <i>Small</i> , 2021 , 17, e2005640	11	4
377	Water-Dispersible CsPbBr Perovskite Nanocrystals with Ultra-Stability and its Application in Electrochemical CO Reduction. <i>Nano-Micro Letters</i> , 2021 , 13, 172	19.5	3
376	pH-responsive black phosphorus quantum dots for tumor-targeted photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021 , 35, 102429	3.5	2
375	Navigating recent advances in monoelemental materials (Xenes)-fundamental to biomedical applications. <i>Progress in Solid State Chemistry</i> , 2021 , 63, 100326	8	6
374	2D materials for bone therapy. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113970	18.5	3
373	Fascinating MXene nanomaterials: emerging opportunities in the biomedical field. <i>Biomaterials Science</i> , 2021 , 9, 5437-5471	7.4	15

372	Tailoring the ultrafast and nonlinear photonics of MXenes through elemental replacement. <i>Nanoscale</i> , 2021 , 13, 15891-15898	7.7	3
371	A Facile Approach for Elemental-Doped Carbon Quantum Dots and Their Application for Efficient Photodetectors (Small 52/2021). <i>Small</i> , 2021 , 17, 2170272	11	
370	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	19.5	37
369	Recent advances in photodynamic therapy based on emerging two-dimensional layered nanomaterials. <i>Nano Research</i> , 2020 , 13, 1485-1508	10	24
368	Solution-gated transistors of two-dimensional materials for chemical and biological sensors: status and challenges. <i>Nanoscale</i> , 2020 , 12, 11364-11394	7.7	19
367	Recent advances in 0D nanostructure-functionalized low-dimensional nanomaterials for chemiresistive gas sensors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7272-7299	7.1	15
366	Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. <i>Small Methods</i> , 2020 , 4, 2000250	12.8	47
365	Control of dissipative rogue waves in nonlinear cavity optics: Optical injection and time-delayed feedback. <i>Chaos</i> , 2020 , 30, 053103	3.3	5
364	Synthesis Techniques, Optoelectronic Properties, and Broadband Photodetection of Thin-Film Black Phosphorus. <i>Advanced Optical Materials</i> , 2020 , 8, 2000045	8.1	18
363	Engineering Mono-Chalcogen Nanomaterials for Omnipotent Anticancer Applications: Progress and Challenges. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000273	10.1	5
362	Manipulating Charge and Energy Transfer between 2D Atomic Layers via Heterostructure Engineering. <i>Nano Letters</i> , 2020 , 20, 5359-5366	11.5	23
361	Boosting Lithium Storage in Free-Standing Black Phosphorus Anode via Multifunction of Nanocellulose. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31628-31636	9.5	28
360	Emerging 2D pnictogens for catalytic applications: status and challenges. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12887-12927	13	17
359	Semiconducting quantum dots: Modification and applications in biomedical science. <i>Science China Materials</i> , 2020 , 63, 1631-1650	7.1	12
358	Photodetectors: Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity (Adv. Mater. 23/2020). <i>Advanced Materials</i> , 2020 , 32, 2070175	24	2
357	Graphdiyne as a Promising Mid-Infrared Nonlinear Optical Material for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2020 , 8, 2000067	8.1	38
356	MXene Photonic Devices for Near-Infrared to Mid-Infrared Ultrashort Pulse Generation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3513-3522	5.6	19
355	Anisotropic Plasmonic Nanostructure Induced Polarization Photoresponse for MoS ₂ -Based Photodetector. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902179	4.6	22

354	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. <i>Nano Research</i> , 2020 , 13, 891-918	10	27
353	Fano Resonance in Artificial Photonic Molecules. <i>Advanced Optical Materials</i> , 2020 , 8, 1902153	8.1	14
352	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	7.1	11
351	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	11.5	97
350	All-Optical Modulator Using MXene Inkjet-Printed Microring Resonator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-6	3.8	13
349	Epitaxial nucleation and lateral growth of high-crystalline black phosphorus films on silicon. <i>Nature Communications</i> , 2020 , 11, 1330	17.4	56
348	Facile liquid-phase exfoliated few-layer GeP nanosheets and their optoelectronic device applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5547-5553	7.1	10
347	High-performance monolayer MoS ₂ photodetector enabled by oxide stress liner using scalable chemical vapor growth method. <i>Nanophotonics</i> , 2020 , 9, 1981-1991	6.3	11
346	Quantum confinement-induced enhanced nonlinearity and carrier lifetime modulation in two-dimensional tin sulfide. <i>Nanophotonics</i> , 2020 , 9, 1963-1972	6.3	8
345	Graphdiyne-Polymer Nanocomposite as a Broadband and Robust Saturable Absorber for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900367	8.3	56
344	Site-Selective Bi ₂ Te ₃ SeTe ₂ Heterostructure as a Broadband Saturable Absorber for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900409	8.3	21
343	Two-dimensional porous coordination polymers and nano-composites for electrocatalysis and electrically conductive applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14356-14383	13	19
342	Black phosphorus-based van der Waals heterostructures for mid-infrared light-emission applications. <i>Light: Science and Applications</i> , 2020 , 9, 114	16.7	51
341	Metamaterial and nanomaterial electromagnetic wave absorbers: structures, properties and applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12768-12794	7.1	25
340	A nano-lateral heterojunction of selenium-coated tellurium for infrared-band soliton fiber lasers. <i>Nanoscale</i> , 2020 , 12, 15252-15260	7.7	5
339	Xenes as an Emerging 2D Monoelemental Family: Fundamental Electrochemistry and Energy Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2002885	15.6	29
338	Deep-Learning-Enabled MXene-Based Artificial Throat: Toward Sound Detection and Speech Recognition. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000262	6.8	16
337	Recent advances in black phosphorus/carbon hybrid composites: from improved stability to applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4647-4676	13	26

- 336 Phosphorene-assisted silicon photonic modulator with fast response time. *Nanophotonics*, **2020**, 9, 19736-1979 10
- 335 Few-layer hexagonal bismuth telluride (Bi₂Te₃) nanoplates with high-performance UV-Vis photodetection. *Nanoscale Advances*, **2020**, 2, 1333-1339 5.1 20
- 334 In Situ Surface Protection for Enhancing Stability and Performance of LiNi_{0.5}Mn_{0.3}Co_{0.2}O₂ at 4.8 V: The Working Mechanisms **2020**, 2, 280-290 32
- 333 Stability of Perovskite Light Sources: Status and Challenges. *Advanced Optical Materials*, **2020**, 8, 1902018-1 26
- 332 A self-powered photodetector based on two-dimensional boron nanosheets. *Nanoscale*, **2020**, 12, 5313-5323 36
- 331 Low-dimensional saturable absorbers for ultrafast photonics in solid-state bulk lasers: status and prospects. *Nanophotonics*, **2020**, 9, 2603-2639 6.3 16
- 330 Evolutional carrier mobility and power factor of two-dimensional tin telluride due to quantum size effects. *Journal of Materials Chemistry C*, **2020**, 8, 4181-4191 7.1 6
- 329 Recent advances in doping engineering of black phosphorus. *Journal of Materials Chemistry A*, **2020**, 8, 5421-5441 13 38
- 328 MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. *Chemistry of Materials*, **2020**, 32, 1703-1747 9.6 197
- 327 Refractive Index Sensors Based on Ti₃C₂T_x MXene Fibers. *ACS Applied Nano Materials*, **2020**, 3, 303-311 5.6 36
- 326 Emerging black phosphorus analogue nanomaterials for high-performance device applications. *Journal of Materials Chemistry C*, **2020**, 8, 1172-1197 7.1 28
- 325 Recent Progress of Two-Dimensional Thermoelectric Materials. *Nano-Micro Letters*, **2020**, 12, 36 19.5 98
- 324 High Efficiency Mesoscopic Solar Cells Using CsPbI Perovskite Quantum Dots Enabled by Chemical Interface Engineering. *Journal of the American Chemical Society*, **2020**, 142, 3775-3783 16.4 92
- 323 Advances in nanomaterials for photodynamic therapy applications: Status and challenges. *Biomaterials*, **2020**, 237, 119827 15.6 262
- 322 Wideband saturable absorption in metal-organic frameworks (MOFs) for mode-locking Er- and Tm-doped fiber lasers. *Nanoscale*, **2020**, 12, 4586-4590 7.7 18
- 321 All-Optical Control of Microfiber Knot Resonator Based on 2D Ti₃C₂T_x MXene. *Advanced Optical Materials*, **2020**, 8, 1900977 8.1 20
- 320 Highly Efficient Super-Continuum Generation on an Epsilon-Near-Zero Surface. *ACS Omega*, **2020**, 5, 2458-2464 9.9 464
- 319 Layered Oxide Cathodes Promoted by Structure Modulation Technology for Sodium-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 2001334 15.6 66

318	Artificial visual memory device based on a photo-memorizing composite and one-step manufacturing. <i>Materials Horizons</i> , 2020 , 7, 1597-1604	14.4	2
317	Multifunctional V/VI binary heterostructure-based self-powered pH-sensitive photo-detector. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5991-6000	7.1	5
316	Eradication of tumor growth by delivering novel photothermal selenium-coated tellurium nanoheterojunctions. <i>Science Advances</i> , 2020 , 6, eaay6825	14.3	62
315	Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity. <i>Advanced Materials</i> , 2020 , 32, e2001082	24	80
314	Recent advances in emerging Janus two-dimensional materials: from fundamental physics to device applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8813-8830	13	70
313	Ferri-chiral compounds with potentially switchable Dresselhaus spin splitting. <i>Physical Review B</i> , 2020 , 102,	3.3	2
312	Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. <i>Nanophotonics</i> , 2020 , 9, 3023-3034	6.3	4
311	Advances in photonics of recently developed Xenes. <i>Nanophotonics</i> , 2020 , 9, 1621-1649	6.3	6
310	Highly stable MXene (V2CTx)-based harmonic pulse generation. <i>Nanophotonics</i> , 2020 , 9, 2577-2585	6.3	24
309	2D GeP-based photonic device for near-infrared and mid-infrared ultrafast photonics. <i>Nanophotonics</i> , 2020 , 9, 3645-3654	6.3	4
308	2D Xenes: from fundamentals to applications. <i>Nanophotonics</i> , 2020 , 9, 1555-1556	6.3	1
307	Two-Dimensional Borophene: Properties, Fabrication, and Promising Applications. <i>Research</i> , 2020 , 2020, 2624617	7.8	42
306	Current status and prospects of memristors based on novel 2D materials. <i>Materials Horizons</i> , 2020 , 7, 1495-1518	14.4	59
305	2D van der Waals heterostructures: processing, optical properties and applications in ultrafast photonics. <i>Materials Horizons</i> , 2020 , 7, 2903-2921	14.4	18
304	Recent advances in real-time spectrum measurement of soliton dynamics by dispersive Fourier transformation. <i>Reports on Progress in Physics</i> , 2020 , 83, 116401	14.4	6
303	Ultraeffective Cancer Therapy with an Antimonene-Based X-Ray Radiosensitizer. <i>Advanced Functional Materials</i> , 2020 , 30, 1906010	15.6	41
302	Inorganic 2D Luminescent Materials: Structure, Luminescence Modulation, and Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 1900978	8.1	29
301	Highly Efficient Silicon Photonic Microheater Based on Black ArsenicPhosphorus. <i>Advanced Optical Materials</i> , 2020 , 8, 1901526	8.1	12

300	A self-encapsulated broadband phototransistor based on a hybrid of graphene and black phosphorus nanosheets. <i>Nanoscale Advances</i> , 2020 , 2, 1059-1065	5.1	12
299	In-plane anisotropic electronics based on low-symmetry 2D materials: progress and prospects. <i>Nanoscale Advances</i> , 2020 , 2, 109-139	5.1	46
298	Recent advances in two-dimensional ferromagnetism: materials synthesis, physical properties and device applications. <i>Nanoscale</i> , 2020 , 12, 2309-2327	7.7	32
297	Recent advances in two-dimensional-material-based sensing technology toward health and environmental monitoring applications. <i>Nanoscale</i> , 2020 , 12, 3535-3559	7.7	155
296	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	13	46
295	Recent advances in solution-processed photodetectors based on inorganic and hybrid photo-active materials. <i>Nanoscale</i> , 2020 , 12, 2201-2227	7.7	44
294	An overview of the optical properties and applications of black phosphorus. <i>Nanoscale</i> , 2020 , 12, 3513-3534	7.7	39
293	A few-layer InSe-based sensitivity-enhanced photothermal fiber sensor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 132-138	7.1	7
292	Recent Progress in 2D Material-Based Saturable Absorbers for All Solid-State Pulsed Bulk Lasers. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900240	8.3	47
291	Solar-Inspired Water Purification Based on Emerging 2D Materials: Status and Challenges. <i>Solar Rrl</i> , 2020 , 4, 1900400	7.1	81
290	Recent developments in emerging two-dimensional materials and their applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 387-440	7.1	227
289	Mid-Infrared Photonics Using 2D Materials: Status and Challenges. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900098	8.3	68
288	Surface Nonlinear Optics on Centrosymmetric Dirac Nodal-Line Semimetal ZrSiS. <i>Advanced Materials</i> , 2020 , 32, e1904498	24	5
287	Two-Dimensional Black Arsenic Phosphorus for Ultrafast Photonics in Near- and Mid-Infrared Regimes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46509-46518	9.5	18
286	Two-dimensional monoelemental germanene nanosheets: facile preparation and optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16318-16325	7.1	4
285	Tellurene Nanoflake-Based NO Sensors with Superior Sensitivity and a Sub-Parts-per-Billion Detection Limit. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47704-47713	9.5	24
284	Recent development and advances in Photodetectors based on two-dimensional topological insulators. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15526-15574	7.1	14
283	Niobium Carbide MXenes with Broad-Band Nonlinear Optical Response and Ultrafast Carrier Dynamics. <i>ACS Nano</i> , 2020 , 14, 10492-10502	16.7	37

282	Recent Advances in Twisted Structures of Flatland Materials and Crafting Moiré Superlattices. <i>Advanced Functional Materials</i> , 2020 , 30, 2000878	15.6	18
281	Recent Advance of Tellurium for Biomedical Applications. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 551-559	2.2	7
280	Band structure tuning of HfMoO by tin intercalation for ultrafast photonic applications. <i>Nanoscale</i> , 2020 , 12, 23140-23149	7.7	7
279	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. <i>Communications Materials</i> , 2020 , 1,	6	9
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