# Han Zhang

# 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.

60,386 128 968 210 h-index g-index citations papers 74,268 8.42 8.4 1,032 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
968	Photodetectors Based on MoS2/MAPbBr3 Van der Waals Heterojunction. <i>IEEE Electron Device Letters</i> , <b>2022</b> , 1-1	4.4	1
967	Optical Properties of Few-Layer TiCN MXene: From Experimental Observations to Theoretical Calculations <i>ACS Nano</i> , <b>2022</b> ,	16.7	6
966	All-optical logic devices based on black arsenicphosphorus with strong nonlinear optical response and high stability. <i>Opto-Electronic Advances</i> , <b>2022</b> , 5, 200046-200046	6.5	6
965	Four-wave mixing in graphdiyne-microfiber based on synchronized dual-wavelength pulses. <i>Photonics Research</i> , <b>2022</b> , 10, 503	6	O
964	Wavelength tunable Q-switched Er-doped fiber laser based on ZrSe2. <i>Optics and Laser Technology</i> , <b>2022</b> , 147, 107598	4.2	2
963	TiCN MXene-based ultra-sensitive optical fiber salinity sensor Optics Letters, 2022, 47, 138-141	3	0
962	All-Optical Modulation Technology Based on 2D Layered Materials <i>Micromachines</i> , <b>2022</b> , 13,	3.3	2
961	PtSe2 as a wideband saturable absorber for passively Q-switched high-power mid-infrared fiber laser. <i>IEEE Photonics Technology Letters</i> , <b>2022</b> , 1-1	2.2	1
960	Co, N-doped carbon dot nanozymes with acid pH-independence and substrate selectivity for biosensing and bioimaging. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 353, 131150	8.5	3
959	Constructing holey Fe2O3 nanosheets with enhanced capability for microwave absorption. <i>Materials Today Chemistry</i> , <b>2022</b> , 23, 100690	6.2	0
958	High-performance polarization-sensitive photodetectors on two-dimensional -InSe <i>National Science Review</i> , <b>2022</b> , 9, nwab098	10.8	13
957	Narrow-bandgap materials for optoelectronics applications. Frontiers of Physics, 2022, 17, 1	3.7	5
956	A Highly Sensitive CRISPR-Empowered Surface Plasmon Resonance Sensor for Diagnosis of Inherited Diseases with Femtomolar-Level Real-Time Quantification <i>Advanced Science</i> , <b>2022</b> , e2105231	1 <sup>13.6</sup>	2
955	Current advances in the imaging of atherosclerotic vulnerable plaque using nanoparticles <i>Materials Today Bio</i> , <b>2022</b> , 14, 100236	9.9	0
954	Ultrafast photonics applications of emerging 2D-Xenes beyond graphene. <i>Nanophotonics</i> , <b>2022</b> , 11, 126	16.13284	45
953	Upregulation of Endothelial DKK1 (Dickkopf 1) Promotes the Development of Pulmonary Hypertension Through the Sp1 (Specificity Protein 1)/SHMT2 (Serine Hydroxymethyltransferase 2) Pathway <i>Hypertension</i> , <b>2022</b> , HYPERTENSIONAHA12118672	8.5	O
952	A Fully Integrated Flexible Tunable Chemical Sensor Based on Gold-Modified Indium Selenide Nanosheets <i>ACS Sensors</i> , <b>2022</b> ,	9.2	4

# (2021-2022)

951	Ti3C2-MXene@N-doped carbon heterostructure-based electrochemical sensor for simultaneous detection of heavy metals. <i>Journal of Electroanalytical Chemistry</i> , <b>2022</b> , 911, 116239	4.1	2	
950	New insights to atherosclerosis management: Role of nanomaterials. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101466	6.6	Ο	
949	2D-ultrathin MXene/DOXjade platform for iron chelation chemo-photothermal therapy <i>Bioactive Materials</i> , <b>2022</b> , 14, 76-85	16.7	8	
948	Responsive and self-healing structural color supramolecular hydrogel patch for diabetic wound treatment <i>Bioactive Materials</i> , <b>2022</b> , 15, 194-202	16.7	4	
947	Additive-mediated intercalation and surface modification of MXenes <i>Chemical Society Reviews</i> , <b>2022</b> ,	58.5	9	
946	Thrombin induces morphological and inflammatory astrocytic responses via activation of PAR1 receptor <i>Cell Death Discovery</i> , <b>2022</b> , 8, 189	6.9	Ο	
945	Efficient flexible quantum-dot light-emitting diodes with unipolar charge injection <i>Optics Express</i> , <b>2022</b> , 30, 15747-15756	3.3	О	
944	Recent advances and challenges on dark solitons in fiber lasers. <i>Optics and Laser Technology</i> , <b>2022</b> , 152, 108116	4.2	1	
943	An Assessment of MXenes through Scanning Probe Microscopy Small Methods, 2022, e2101599	12.8	O	
942	Ultrafast carrier dynamics in CdS@CdSe core-shell quantum dot heterostructure. <i>Optical Materials</i> , <b>2022</b> , 128, 112367	3.3	O	
941	Optical-intensity modulators with PbTe thermoelectric nanopowders for ultrafast photonics. <i>Applied Materials Today</i> , <b>2022</b> , 28, 101546	6.6	8	
940	Effects of ultrasonication on the microstructures and mechanical properties of carbon nanotube films and their based composites. <i>Composites Science and Technology</i> , <b>2021</b> , 109136	8.6	Ο	
939	Recent progress and strategies in photodetectors based on 2D inorganic/organic heterostructures. 2D Materials, <b>2021</b> , 8, 012001	5.9	5	
938	A multifunctional 2D black phosphorene-based platform for improved photovoltaics. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 13346-13371	58.5	Ο	
937	Two-dimensional materials toward Terahertz optoelectronic device applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2021</b> , 51, 100473	16.4	5	
936	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	23	
935	Recent Advances in Oxidation Stable Chemistry of Two-Dimensional MXenes. <i>Advanced Materials</i> , <b>2021</b> , e2107554	24	19	
934	Recent development in emerging phosphorene based novel materials: Progress, challenges, prospects and their fascinating sensing applications. <i>Progress in Solid State Chemistry</i> , <b>2021</b> , 100336	8	3	

933	Strategic Design of Intelligent-Responsive Nanogel Carriers for Cancer Therapy. <i>ACS Applied Materials &amp; Acs Applied &amp; Acs App</i>	9.5	4
932	A Facile Approach for Elemental-Doped Carbon Quantum Dots and Their Application for Efficient Photodetectors. <i>Small</i> , <b>2021</b> , e2105683	11	7
931	Bioengineering applications of black phosphorus and their toxicity assessment. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 3452-3477	7.1	6
930	Enhanced charge-transfer induced by conduction band electrons in aluminum-doped zinc oxide/molecule/Ag sandwich structures observed by surface-enhanced Raman spectroscopy  Journal of Colloid and Interface Science, 2021, 610, 164-172	9.3	Ο
929	Recent development in graphdiyne and its derivative materials for novel biomedical applications. Journal of Materials Chemistry B, <b>2021</b> , 9, 9461-9484	7-3	3
928	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , <b>2021</b> , 2108017-0	3.8	69
927	A Regioselectively Oxidized 2D Bi/BiOx Lateral Nano-Heterostructure for Hypoxic Photodynamic Therapy. <i>Advanced Materials</i> , <b>2021</b> , e2102562	24	16
926	Point and complex defects in monolayer PdSe2: Evolution of electronic structure and emergence of magnetism. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	4
925	Material-based engineering of bacteria for cancer diagnosis and therapy. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101212	6.6	1
924	Conducting polymer-inorganic nanocomposite-based gas sensors: a review. <i>Science and Technology of Advanced Materials</i> , <b>2021</b> , 21, 768-786	7.1	31
923	Fiber-based all-optical modulation based on two-dimensional materials. 2D Materials, 2021, 8, 012003	5.9	3
922	Emerging intrinsic magnetism in two-dimensional materials: theory and applications. <i>2D Materials</i> , <b>2021</b> , 8, 012005	5.9	11
921	Phase Transitions and Water Splitting Applications of 2D Transition Metal Dichalcogenides and Metal Phosphorous Trichalcogenides. <i>Advanced Science</i> , <b>2021</b> , 8, 2002284	13.6	18
920	Smart nano-micro platforms for ophthalmological applications: The state-of-the-art and future perspectives. <i>Biomaterials</i> , <b>2021</b> , 270, 120682	15.6	7
919	A review on the electroluminescence properties of quantum-dot light-emitting diodes. <i>Organic Electronics</i> , <b>2021</b> , 90, 106086	3.5	26
918	Signal processing assisted Vernier effect in a single interferometer for sensitivity magnification. <i>Optics Express</i> , <b>2021</b> , 29, 11570-11581	3.3	11
917	Engineering of bioactive metal sulfide nanomaterials for cancer therapy. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 93	9.4	8
916	Preparation and characterization of gelatin-polysaccharide composite hydrogels for tissue engineering. <i>PeerJ</i> , <b>2021</b> , 9, e11022	3.1	1

# (2021-2021)

915	2D Materials Enabled Next-Generation Integrated Optoelectronics: from Fabrication to Applications. <i>Advanced Science</i> , <b>2021</b> , 8, e2003834	13.6	13	
914	Polymer Nanocomposites for Temperature Sensing and Self-regulating Heating Devices <b>2021</b> , 247-266			
913	Construction of multiple interfaces and dielectric/magnetic heterostructures in electromagnetic wave absorbers with enhanced absorption performance: A review. <i>Journal of Materiomics</i> , <b>2021</b> ,	6.7	27	
912	Perspectives on solution processing of two-dimensional MXenes. <i>Materials Today</i> , <b>2021</b> , 48, 214-214	21.8	51	
911	Subwavelength-Polarized Quasi-Two-Dimensional Perovskite Single-Mode Nanolaser. <i>ACS Nano</i> , <b>2021</b> , 15, 6900-6908	16.7	23	
910	An Insightful Picture of Nonlinear Photonics in 2D Materials and their Applications: Recent Advances and Future Prospects. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001671	8.1	2	
909	Symmetry-Broken Aullu Heterostructures and their Tandem Catalysis Process in Electrochemical CO2 Reduction. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101255	15.6	18	
908	Selective Deposition of Catalytic Metals on Plasmonic Au Nanocups for Room-Light-Active Photooxidation of -Phenylenediamine. <i>ACS Applied Materials &amp; Description of Active Photooxidation of Phenylenediamine</i> .	9.5	4	
907	Synergistic Photothermal and Chemical Therapy by Smart Dual-Functional Graphdiyne Nanosheets for Treatment of Parkinson's Disease. <i>Advanced Therapeutics</i> , <b>2021</b> , 4, 2100082	4.9	5	
906	Photodynamic immunotherapy of cancers based on nanotechnology: recent advances and future challenges. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 160	9.4	19	
905	2D III-Nitride Materials: Properties, Growth, and Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006761	24	18	
904	Repression of Interlayer Recombination by Graphene Generates a Sensitive Nanostructured 2D vdW Heterostructure Based Photodetector. <i>Advanced Science</i> , <b>2021</b> , 8, e2100503	13.6	13	
903	Nano-bio interfaces effect of two-dimensional nanomaterials and their applications in cancer immunotherapy <i>Acta Pharmaceutica Sinica B</i> , <b>2021</b> , 11, 3447-3464	15.5	9	
902	Two-dimensional MOF and COF nanosheets for next-generation optoelectronic applications. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 435, 213781	23.2	23	
901	Magnetic black phosphorus microbubbles for targeted tumor theranostics. <i>Nanophotonics</i> , <b>2021</b> , 10, 3339-3358	6.3	6	
900	Assessment of the effects of four crosslinking agents on gelatin hydrogel for myocardial tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , <b>2021</b> , 16,	3.5	2	
899	2D Materials for Nonlinear Photonics and Electro-Optical Applications. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100367	4.6	10	
898	Recent Advancement for the Synthesis of MXene Derivatives and Their Sensing Protocol. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2001197	6.8	5	

897	Two-photon structured illumination microscopy imaging using Fourier ptychography scheme. <i>Optics Communications</i> , <b>2021</b> , 489, 126872	2	2
896	A novel NIR-responsive CO gas-releasing and hyperthermia-generating nanomedicine provides a curative approach for cancer therapy. <i>Nano Today</i> , <b>2021</b> , 38, 101197	17.9	7
895	Dynamic behaviors of multiple-soliton pulsation in an L-band passively mode-locked fiber laser with anomalous dispersion. <i>Chaos</i> , <b>2021</b> , 31, 063122	3.3	1
894	MXene and PtSe2 saturable absorbers for all-fibre ultrafast mid-infrared lasers. <i>Optical Materials Express</i> , <b>2021</b> , 11, 1898	2.6	4
893	Broadband and ultrafast all-optical switching based on transition metal carbide. <i>Nanophotonics</i> , <b>2021</b> , 10, 2617-2623	6.3	1
892	Broadband, High-Sensitivity Graphene Photodetector Based on Ferroelectric Polarization of Lithium Niobate. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100245	8.1	3
891	Autologous tumor antigens and boron nanosheet-based nanovaccines for enhanced photo-immunotherapy against immune desert tumors. <i>Nanophotonics</i> , <b>2021</b> , 10, 2519-2535	6.3	1
890	NIR-II Responsive Inorganic 2D Nanomaterials for Cancer Photothermal Therapy: Recent Advances and Future Challenges. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101625	15.6	23
889	Facet- and Gas-Dependent Reshaping of Au Nanoplates by Plasma Treatment. ACS Nano, 2021, 15, 9860	)- <del>198</del> 70	О
888	Quantum tunneling in two-dimensional van der Waals heterostructures and devices. <i>Science China Materials</i> , <b>2021</b> , 64, 2359-2387	7.1	5
887	Frontiers in Electronic and Optoelectronic Devices Based on 2D Materials. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2100444	6.4	1
886	Black Phosphorus/Polymers: Status and Challenges. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100113	24	10
885	Defect Engineering in Ultrathin SnSe Nanosheets for High-Performance Optoelectronic Applications. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2021</b> , 13, 33226-33236	9.5	11
884	PN junction-based ZnO wearable textile nanogenerator for biomechanical energy harvesting. <i>Nano Energy</i> , <b>2021</b> , 85, 105938	17.1	8
883	Nonlinear optical property and mid-infrared Q-switched laser application at 2.8 h of PtSe2 material. <i>Optics and Laser Technology</i> , <b>2021</b> , 139, 106983	4.2	4
882	Short-pulsed Raman fiber laser and its dynamics. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	18
881	Insights from nanotechnology in COVID-19 treatment. <i>Nano Today</i> , <b>2021</b> , 36, 101019	17.9	82
88o	Trajectory and image-based detection and identification of UAV. Visual Computer, 2021, 37, 1769-1780	2.3	3

#### (2021-2021)

879	MXene (Ti2NTx): Synthesis, characteristics and application as a thermo-optical switcher for all-optical wavelength tuning laser. <i>Science China Materials</i> , <b>2021</b> , 64, 259-265	7.1	11
878	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126336	14.7	19
877	Borophene-based biomedical applications: Status and future challenges. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 427, 213549	23.2	21
876	Carbon-based nanozymes for biomedical applications. <i>Nano Research</i> , <b>2021</b> , 14, 570-583	10	40
875	Transition Metal Dichalcogenides for Sensing and Oncotherapy: Status, Challenges, and Perspective. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2004408	15.6	17
874	Confinement in two-dimensional materials: Major advances and challenges in the emerging renewable energy conversion and other applications. <i>Progress in Solid State Chemistry</i> , <b>2021</b> , 61, 100294	ı <sup>8</sup>	11
873	Recent progress, challenges, and prospects in emerging group-VIA Xenes: synthesis, properties and novel applications. <i>Nanoscale</i> , <b>2021</b> , 13, 510-552	7.7	9
872	Status and Outlook of Metal <b>I</b> horganic Semiconductor <b>M</b> etal Photodetectors. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000401	8.3	23
871	Boosting Faradic efficiency of dinitrogen reduction on the negatively charged Mo sites modulated via interstitial Fe doping into a Mo2C nanowall catalyst. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 12792	4 <sup>14.7</sup>	3
870	Low-dimensional nanomaterials enabled autoimmune disease treatments: Recent advances, strategies, and future challenges. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 432, 213697	23.2	2
869	MXene Ti3C2Tx (T´=´F, O, or OH) saturable absorber for a 2 th doubly Q-switched laser with AOM. <i>Optics and Laser Technology</i> , <b>2021</b> , 134, 106642	4.2	4
868	Nano-immunotherapy: Unique mechanisms of nanomaterials in synergizing cancer immunotherapy. <i>Nano Today</i> , <b>2021</b> , 36, 101023	17.9	16
867	Emerging Mono-Elemental Bismuth Nanostructures: Controlled Synthesis and Their Versatile Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007584	15.6	17
866	Ultrafast Surface Plasmon Resonance Imaging Sensor via the High-Precision Four-Parameter-Based Spectral Curve Readjusting Method. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 828-833	7.8	6
865	Graphene/MoS2/Graphene Vertical Heterostructure-Based Broadband Photodetector with High Performance. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001730	4.6	18
864	Two-Dimensional Materials for Integrated Photonics: Recent Advances and Future Challenges. <i>Small Science</i> , <b>2021</b> , 1, 2000053		23
863	Recent advances on TMDCs for medical diagnosis. <i>Biomaterials</i> , <b>2021</b> , 269, 120471	15.6	10
862	Recent advances in anisotropic two-dimensional materials and device applications. <i>Nano Research</i> , <b>2021</b> , 14, 897-919	10	32

861	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenes: Progress, Challenges, and Prospects. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005957	15.6	21
860	Recent Advances in Hybridization, Doping, and Functionalization of 2D Xenes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005471	15.6	10
859	Photodriven Disproportionation of Nitrogen and Its Change to Reductive Nitrogen Photofixation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 927-936	16.4	24
858	Two-dimensional semiconducting antimonene in nanophotonic applications IA review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126876	14.7	14
857	Exotic physical properties of 2D materials modulated by moir uperlattices. <i>Materials Advances</i> , <b>2021</b> , 2, 5542-5559	3.3	1
856	Recent Advances in 2D Layered Phosphorous Compounds <i>Small Methods</i> , <b>2021</b> , 5, e2001068	12.8	8
855	Overcoming barriers in photodynamic therapy harnessing nano-formulation strategies. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 9152-9201	58.5	56
854	Thermally tunable microfiber knot resonator with flexible graphene heater. <i>Chinese Optics Letters</i> , <b>2021</b> , 19, 051301	2.2	2
853	2D Nanomaterials for Tissue Engineering and Regenerative Nanomedicines: Recent Advances and Future Challenges. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001743	10.1	33
852	Boron quantum dots all-optical modulator based on efficient photothermal effect. <i>Opto-Electronic Advances</i> , <b>2021</b> , 4, 200032-200032	6.5	4
851	Ti3C2Tx Nanosheets for High-Repetition-Rate Wideband-Tunable Q-Switched Fiber Laser Around 3 fb. <i>IEEE Photonics Technology Letters</i> , <b>2021</b> , 1-1	2.2	1
850	Current Advances in Black Phosphorus-Based Drug Delivery Systems for Cancer Therapy. <i>Advanced Science</i> , <b>2021</b> , 8, 2003033	13.6	30
849	Heterostructures of titanium-based MXenes in energy conversion and storage devices. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 8395-8465	7.1	10
848	Ultra-Small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photo-Electrochemical Photodetectors. <i>Small</i> , <b>2021</b> , 17, e2005913	11	20
847	Graphdiyne nanosheets as a platform for accurate copper(ii) ion detection click chemistry and fluorescence resonance energy transfer <i>RSC Advances</i> , <b>2021</b> , 11, 5320-5324	3.7	2
846	Tailoring nanofibrillated cellulose through sonication and its potential use in molded pulp packaging. <i>Nanocomposites</i> , <b>2021</b> , 7, 109-122	3.4	Ο
845	Enhancing the reinforcing efficiency in CNT nanocomposites the development of pyrene-based active dispersants <i>RSC Advances</i> , <b>2021</b> , 11, 23892-23900	3.7	
844	A novel deposition mechanism of Au on Ag nanostructures involving galvanic replacement and reduction reactions. <i>Chemical Communications</i> , <b>2021</b> , 57, 8332-8335	5.8	3

843	Nanostructured metal nitrides for photocatalysts. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5323-5342	7.1	3
842	Berlin Green Framework-Based Gas Sensor for Room-Temperature and High-Selectivity Detection of Ammonia. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 63	19.5	6
841	Novel synthesis, properties and applications of emerging group VA two-dimensional monoelemental materials (2D-Xenes). <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6333-6391	7.8	7
840	MXene and black phosphorus based 2D nanomaterials in bioimaging and biosensing: progress and perspectives. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 5195-5220	7.3	7
839	Hetero-MXenes: Theory, Synthesis, and Emerging Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004129	24	58
838	PSMA-targeted arsenic nanosheets: a platform for prostate cancer therapy via ferroptosis and ATM deficiency-triggered chemosensitization. <i>Materials Horizons</i> , <b>2021</b> , 8, 2216-2229	14.4	О
837	Recent Progress of Fluxgate Magnetic Sensors: Basic Research and Application. Sensors, 2021, 21,	3.8	8
836	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. <i>Small</i> , <b>2021</b> , 17, e20060:	5 <b>4</b> 1	41
835	Tailored negative/positive photoresponse of BP via doping. <i>Nanotechnology</i> , <b>2021</b> , 32, 185201	3.4	
834	Nonlinear Photonics Using Low-Dimensional Metal-Halide Perovskites: Recent Advances and Future Challenges. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004446	24	24
833	PbSe Nanocrystals Produced by Facile Liquid Phase Exfoliation for Efficient UV <b>V</b> is Photodetectors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010401	15.6	17
832	Enhanced magnetic Lorentz force second harmonic generation originating from a double-resonances plasmonic metasurface. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 175110	3	2
831	Valley manipulation in monolayer transition metal dichalcogenides and their hybrid systems: status and challenges. <i>Reports on Progress in Physics</i> , <b>2021</b> , 84, 026401	14.4	11
830	Halogen Functionalization in the 2D Material Flatland: Strategies, Properties, and Applications. <i>Small</i> , <b>2021</b> , 17, e2005640	11	4
829	Gold Nanocluster-Modified Titanium Nitride for Ultrafast Photonics Applications. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000954	6.4	O
828	Multiphoton Photoluminescence in Hybrid Plasmon Biber Cavities with Au and [email protected] Nanobipyramids: Two-Photon versus Four-Photon Processes and Rapid Quenching. <i>ACS Photonics</i> , <b>2021</b> , 8, 2088-2094	6.3	O
827	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103334	15.6	2
826	Nanopoxia: Targeting Cancer Hypoxia by Antimonene-Based Nanoplatform for Precision Cancer Therapy. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104607	15.6	7

825	Wavelength tunable passive-mode locked Er-doped fiber laser based on graphene oxide nano-platelet. <i>Optics and Laser Technology</i> , <b>2021</b> , 140, 106932	4.2	4
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823	Recent applications of black phosphorus and its related composites in electrochemistry and bioelectrochemistry: A mini review. <i>Electrochemistry Communications</i> , <b>2021</b> , 129, 107095	5.1	2
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821	Novel emerging graphdiyne based two dimensional materials: Synthesis, properties and renewable energy applications. <i>Nano Today</i> , <b>2021</b> , 39, 101207	17.9	11
820	Electroactive electrospun nanofibers for tissue engineering. <i>Nano Today</i> , <b>2021</b> , 39, 101196	17.9	44
819	Discrete light bullets in coupled optical resonators. <i>Optics Letters</i> , <b>2021</b> , 46, 4072-4075	3	3
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815	pH-responsive black phosphorus quantum dots for tumor-targeted photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2021</b> , 35, 102429	3.5	2
814	Recent progress in acoustic materials and noise control strategies 🖪 review. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101141	6.6	4
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811	Designing of 0D/2D mixed-dimensional van der waals heterojunction over ultrathin g-C3N4 for high-performance flexible self-powered photodetector. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 12955	56 <sup>14.7</sup>	9
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399	Mechano-Based Transductive Sensing for Wearable Healthcare. <i>Small</i> , <b>2018</b> , 14, e1702933	11	66
398	Broadband Nonlinear Photoresponse of 2D TiS2 for Ultrashort Pulse Generation and All-Optical Thresholding Devices. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701166	8.1	217
397	High-Performance Photo-Electrochemical Photodetector Based on Liquid-Exfoliated Few-Layered InSe Nanosheets with Enhanced Stability. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705237	15.6	206
396	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> , <b>2018</b> , 6, 1700985	8.1	162
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394	New Strategy for Polysulfide Protection Based on Atomic Layer Deposition of TiO2 onto Ferroelectric-Encapsulated Cathode: Toward Ultrastable Free-Standing Room Temperature SodiumBulfur Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705537	15.6	134

393	Self-Standing Polypyrrole/Black Phosphorus Laminated Film: Promising Electrode for Flexible Supercapacitor with Enhanced Capacitance and Cycling Stability. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 3538-3548	9.5	127
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385	Two-dimensional bismuth nanosheets as prospective photo-detector with tunable optoelectronic performance. <i>Nanotechnology</i> , <b>2018</b> , 29, 235201	3.4	71
384	Pulse duration dependent nonlinear optical response in black phosphorus dispersions. <i>Optics Communications</i> , <b>2018</b> , 406, 244-248	2	20
383	Dissolvable thermoplastic interleaves for carbon nanotube localization in carbon/epoxy laminates with integrated damage sensing capabilities. <i>Structural Health Monitoring</i> , <b>2018</b> , 17, 59-66	4.4	10
382	Black phosphorus saturable absorber for a diode-pumped passively Q-switched Er:CaF2 mid-infrared laser. <i>Optics Communications</i> , <b>2018</b> , 406, 158-162	2	33
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378	Synergistic effects of spray-coated hybrid carbon nanoparticles for enhanced electrical and thermal surface conductivity of CFRP laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 105, 9-18	8.4	52
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