

Feng Zhang

List of Publications by Year in descending order

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62
papers

5,379
citations

68294

39
h-index

91511

65
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65
all docs

65
docs citations

65
times ranked

4976
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable engineering of photo- and electro-induced carrier dynamics in perovskite photoelectronic devices. <i>Science China Materials</i> , 2022, 65, 855-875.	6.4	12
2	Dynamics of broadband photoinduced species and enabled photodetection in MXenes. <i>Nanophotonics</i> , 2022, 11, 3139-3148.	6.7	9
3	Three birds with one stone: oxygen self-supply engineering palladium nanocluster/titanium carbide hybrid for single-NIR laser-triggered synergistic photodynamic-photothermal therapy. <i>Nanophotonics</i> , 2022, 11, 5061-5075.	6.7	12
4	Booming development and present advances of two dimensional MXenes for photodetectors. <i>Chemical Engineering Journal</i> , 2021, 403, 126336.	11.9	49
5	Ultra-small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photo-Electrochemical Photodetectors. <i>Small</i> , 2021, 17, .	11.6	66
6	Smart nano-micro platforms for ophthalmological applications: The state-of-the-art and future perspectives. <i>Biomaterials</i> , 2021, 270, 120682.	12.3	43
7	Magnetic black phosphorus microbubbles for targeted tumor theranostics. <i>Nanophotonics</i> , 2021, 10, 3339-3358.	6.7	13
8	The visible nonlinear optical properties and passively Q-switched laser application of a layered PtSe ₂ material. <i>Nanoscale</i> , 2020, 12, 1061-1066.	5.1	29
9	The codopant assisted tunable photoluminescence and highly efficient CW lasers in Nd ³⁺ :SrF ₂ crystal. <i>Journal of Luminescence</i> , 2020, 219, 116911.	3.6	10
10	Zero-Dimensional MXene-Based Optical Devices for Ultrafast and Ultranarrow Photonics Applications. <i>Advanced Science</i> , 2020, 7, .	12.8	68
11	Ti ₃ C ₂ T _x MXene Quantum Dots with Enhanced Stability for Ultrafast Photonics. <i>ACS Applied Nano Materials</i> , 2020, 3, 11850-11860.	5.4	55
12	Ultrafast Relaxation Dynamics and Nonlinear Response of Few-Layer Niobium Carbide MXene. <i>Small Methods</i> , 2020, 4, .	9.1	100
13	Ultrasensitive detection of microRNA using a bismuthene-enabled fluorescence quenching biosensor. <i>Chemical Communications</i> , 2020, 56, 7041-7044.	4.2	56
14	Broadband nonlinear optical response in GeSe nanoplates and its applications in all-optical diode. <i>Nanophotonics</i> , 2020, 9, 2007-2015.	6.7	25
15	Quantum confinement-induced enhanced nonlinearity and carrier lifetime modulation in two-dimensional tin sulfide. <i>Nanophotonics</i> , 2020, 9, 1963-1972.	6.7	22
16	Graphdiyne-Polymer Nanocomposite as a Broadband and Robust Saturable Absorber for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2020, 14, .	9.5	111
17	MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. <i>Chemistry of Materials</i> , 2020, 32, 1703-1747.	6.9	511
18	Photocarrier relaxation pathways in selenium quantum dots and their application in UV-Vis photodetection. <i>Nanoscale</i> , 2020, 12, 11232-11241.	5.1	27

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19	Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity. <i>Advanced Materials</i> , 2020, 32, .	24.7	189
20	Tellurium@Selenium core-shell hetero-junction: Facile synthesis, nonlinear optics, and ultrafast photonics applications towards mid-infrared regime. <i>Applied Materials Today</i> , 2020, 20, 100657.	4.0	10
21	Recent advances in real-time spectrum measurement of soliton dynamics by dispersive Fourier transformation. <i>Reports on Progress in Physics</i> , 2020, 83, 116401.	20.0	40
22	Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. <i>Nanophotonics</i> , 2020, 9, 3023-3034.	6.7	10
23	Advances in photonics of recently developed Xenex. <i>Nanophotonics</i> , 2020, 9, 1621-1649.	6.7	14
24	Fully photon modulated heterostructure for neuromorphic computing. <i>Nano Energy</i> , 2019, 65, 104000.	16.3	132
25	2D GeP as a Novel Broadband Nonlinear Optical Material for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2019, 13, .	9.5	87
26	NiPS ₃ nanoflakes: a nonlinear optical material for ultrafast photonics. <i>Nanoscale</i> , 2019, 11, 14383-14391.	5.1	39
27	Epitaxial Growth of Topological Insulators on Semiconductors (Bi ₂ Se ₃ /Te@Se) toward High-Performance Photodetectors. <i>Small Methods</i> , 2019, 3, .	9.1	54
28	Self-Healable Black Phosphorus Photodetectors. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	55
29	Van der Waals Integration of Bismuth Quantum Dots-Decorated Tellurium Nanotubes (Te@Bi) Heterojunctions and Plasma-Enhanced Optoelectronic Applications. <i>Small</i> , 2019, 15, .	11.6	53
30	A bismuthene-based multifunctional all-optical phase and intensity modulator enabled by photothermal effect. <i>Journal of Materials Chemistry C</i> , 2019, 7, 871-878.	5.1	71
31	An All-Optical, Actively Q-Switched Fiber Laser by an Antimonene-Based Optical Modulator. <i>Laser and Photonics Reviews</i> , 2019, 13, .	9.5	129
32	Engineering ultrafast charge transfer in a bismuthene/perovskite nanohybrid. <i>Nanoscale</i> , 2019, 11, 2637-2643.	5.1	51
33	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 4774-4781.	5.4	47
34	MXene Ti ₃ C ₂ T _x : A Promising Photothermal Conversion Material and Application in All-Optical Modulation and All-Optical Information Loading. <i>Advanced Optical Materials</i> , 2019, 7, .	7.1	132
35	Polydopamine-functionalized black phosphorus quantum dots for cancer theranostics. <i>Applied Materials Today</i> , 2019, 15, 297-304.	4.0	94
36	Beta-lead oxide quantum dot (β-PbO QD)/polystyrene (PS) composite films and their applications in ultrafast photonics. <i>Nanoscale</i> , 2019, 11, 6828-6837.	5.1	35

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37	Two-dimensional tellurium-polymer membrane for ultrafast photonics. <i>Nanoscale</i> , 2019, 11, 6235-6242.	5.1	113
38	Passively Q-switched operation of in-band pumped Ho:YLF based on Ti ₃ C ₂ T _x MXene. <i>Infrared Physics and Technology</i> , 2019, 103, 103076.	3.3	21
39	2D Black Phosphorus Saturable Absorbers for Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2019, 7, .	7.1	252
40	MZI-Based All-Optical Modulator Using MXene Ti ₃ C ₂ T _x (T = F, Tj ETQq0 0 0 rgBT /Overlock	6.1	99
41	Continuous-wave and Q-switched Nd:BCSO lasers based on bismuth nanosheets absorber. <i>Applied Optics</i> , 2019, 58, 6545.	1.7	6
42	Nonlinear Few-Layer Antimonene-Based All-Optical Signal Processing: Ultrafast Optical Switching and High-Speed Wavelength Conversion. <i>Advanced Optical Materials</i> , 2018, 6, .	7.1	101
43	All-Optical Phosphorene Phase Modulator with Enhanced Stability Under Ambient Conditions. <i>Laser and Photonics Reviews</i> , 2018, 12, .	9.5	162
44	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, .	7.1	220
45	Highly efficient continuous-wave laser operation of LD-pumped Nd,Gd:CaF ₂ and Nd,Y:CaF ₂ crystals. <i>Laser Physics Letters</i> , 2018, 15, 055802.	1.4	8
46	Broadband Nonlinear Photonics in Few-Layer MXene Ti ₃ C ₂ T _x (T =) Tj ETQq0 0 0 rgBT /Overlock	9.5	590
47	Mode locked Nd ³⁺ and Gd ³⁺ co-doped calcium fluoride crystal laser at dual gain lines. <i>Optics and Laser Technology</i> , 2018, 100, 294-297.	5.0	40
48	Two-dimensional beta-lead oxide quantum dots. <i>Nanoscale</i> , 2018, 10, 20540-20547.	5.1	51
49	Black phosphorus: A novel nanoplatfom with potential in the field of bio-photonic nanomedicine. <i>Journal of Innovative Optical Health Sciences</i> , 2018, 11, .	1.3	72
50	MXene Ti ₃ C ₂ T _x	1.9	41
51	MXene-Based Nonlinear Optical Information Converter for All-Optical Modulator and Switcher. <i>Laser and Photonics Reviews</i> , 2018, 12, .	9.5	130
52	Perovskite CsPbX ₃ : A Promising Nonlinear Optical Material and Its Applications for Ambient All-Optical Switching with Enhanced Stability. <i>Advanced Optical Materials</i> , 2018, 6, .	7.1	95
53	MXene Ti ₃ C ₂ T _x absorber for a 1.06 μm passively Q-switched ceramic laser. <i>Laser Physics Letters</i> , 2018, 15, 085805.	1.4	91
54	Bismuth nanosheets as a Q-switcher for a mid-infrared erbium-doped SrF ₂ laser. <i>Photonics Research</i> , 2018, 6, 762.	6.9	68

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55	Sub-200 fs soliton mode-locked fiber laser based on bismuthene saturable absorber. Optics Express, 2018, 26, 22750.	3.3	301
56	Ultrathin Metal-Organic Framework: An Emerging Broadband Nonlinear Optical Material for Ultrafast Photonics. Advanced Optical Materials, 2018, 6, .	7.1	283
57	Tunable Nd, La:SrF ₂ laser and passively Q-switched operation based on gold nanobipyramids saturable absorber. Chinese Physics B. 2017, 26, 024205.	1.9	19
58	Tunable Yb:CaF ₂ /SrF ₂ laser and femtosecond mode-locked performance based on semiconductor saturable absorber mirrors. Applied Optics, 2016, 55, 8359.	2.2	13
59	Dual-wavelength mode-locked operation on a novel Nd ³⁺ ,Gd ³⁺ :SrF ₂ crystal laser. Optical Materials Express, 2016, 6, 1513.	2.9	22
60	Efficient continuous-wave and 739 fs mode-locked laser on a novel Nd ³⁺ , La ³⁺ co-doped SrF ₂ disordered crystal. Laser Physics Letters, 2016, 13, 095802.	1.4	12
61	Dual-wavelength continuous-wave and passively Q-switched Nd,Y:SrF ₂ ceramic laser. Optical Engineering, 2016, 55, 106114.	1.2	27
62	Continuous-wave and mode-locked operation of a diode-pumped Nd,La:CaF ₂ laser. Optical Materials Express, 2015, 5, 1972.	2.9	22