

Jun Wang

List of Publications by Year in descending order

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109
papers

7,784
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76196

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109
all docs

109
docs citations

109
times ranked

7653
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Nonlinear Photoresponse and Ultrafast Carrier Dynamics of 2D PdSe ₂ . <i>Advanced Optical Materials</i> , 2022, 10, 2101963.	3.6	17
2	Effects on the emission discrepancy between two-dimensional Sn-based and Pb-based perovskites. <i>Chinese Optics Letters</i> , 2022, 20, 021602.	1.3	4
3	Regulation of the luminescence mechanism of two-dimensional tin halide perovskites. <i>Nature Communications</i> , 2022, 13, 60.	5.8	48
4	Exciton-Like and Mid-Gap Absorption Dynamics of PtS in Resonant and Transparent Regions. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	1
5	Regulating the Auger Recombination Process in Two-Dimensional Sn-Based Halide Perovskites. <i>ACS Photonics</i> , 2022, 9, 1627-1637.	3.2	4
6	Microscopic optical nonlinearities and transient carrier dynamics in indium selenide nanosheet. <i>Optics Express</i> , 2022, 30, 17967.	1.7	6
7	MXene-Based Broadband Ultrafast Nonlinear Activator for Optical Computing. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	12
8	Ultrafast electron transfer dynamics in Ag/TiO ₂ nanocomposite for tailoring of optical nonlinearity. <i>Applied Surface Science</i> , 2021, 539, 148258.	3.1	8
9	Near-Infrared All-Optical Switching Based on Nano/Micro Optical Structures in YVO ₄ Matrix: Embedded Plasmonic Nanoparticles and Laser-Written Waveguides. <i>Advanced Photonics Research</i> , 2021, 2, 2000064.	1.7	6
10	Two-dimensional tellurium saturable absorber for ultrafast solid-state laser. <i>Chinese Optics Letters</i> , 2021, 19, 031401.	1.3	7
11	2D materials in nonlinear optics. , 2021, , 347-385.		0
12	Anisotropic Raman scattering and intense broadband second-harmonic generation in tellurium nanosheets. <i>Optics Letters</i> , 2021, 46, 1812.	1.7	8
13	Visible nonlinear optical properties of tellurium and application as saturable absorber. <i>Optics and Laser Technology</i> , 2021, 137, 106817.	2.2	9
14	Ether-linked porphyrin covalent organic framework with broadband optical switch. <i>IScience</i> , 2021, 24, 102526.	1.9	21
15	Anisotropic luminescence and third-order electric susceptibility of Mg-doped gallium oxide under the half-bandgap edge. <i>Optics Express</i> , 2021, 29, 18587.	1.7	16
16	Nonlinear optical fullerene and graphene-based polymeric 1D photonic crystals: perspectives for slow and fast optical bistability. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, C198.	0.9	2
17	Nonlinear Optical Response and Ultrafast Carrier Dynamics in Single-Crystalline Sb Nanosheets with van der Waals Epitaxy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19866-19873.	1.5	1
18	Defect-Enhanced Exciton-Exciton Annihilation in Monolayer Transition Metal Dichalcogenides at High Exciton Densities. <i>ACS Photonics</i> , 2021, 8, 2770-2780.	3.2	26

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19	Facile synthesis of aqueous silver nanoparticles and silver/molybdenum disulfide nanocomposites and investigation of their nonlinear optical properties. <i>Tungsten</i> , 2021, 3, 482-491.	2.0	6
20	Femtosecond-scale all-optical switching in oxyfluorogallate glass induced by nonlinear multiphoton absorption. <i>RSC Advances</i> , 2021, 11, 32446-32453.	1.7	8
21	Electrochemical synthesis of annealing-free and highly stable black-phase CsPbI ₃ perovskite. <i>Chemical Communications</i> , 2021, 57, 8981-8984.	2.2	11
22	Nonlinear Optical Properties and Ultrafast Carrier Dynamics of 2D Indium Selenide Nanosheets. <i>Advanced Optical Materials</i> , 2021, 9, 2101432.	3.6	14
23	Q-switched mode-locked laser generation by Au nanoparticles embedded in LiTaO ₃ crystals. <i>Optical Materials</i> , 2021, 122, 111714.	1.7	2
24	Atomic Defect Induced Saturable Absorption of Hexagonal Boron Nitride in Near Infrared Band for Ultrafast Lasing Applications. <i>Nanomaterials</i> , 2021, 11, 3203.	1.9	1
25	Lattice reconstruction of La-incorporated CsPbI ₂ Br with suppressed phase transition for air-processed all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3351-3358.	2.7	35
26	Organic Small Molecule Covalently Functionalized Molybdenum Disulfide Hybrid Material for Optical Limiting. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 26-31.	2.0	6
27	Plasmonic core-shell nano-heterostructures with temperature-dependent optical nonlinearity. <i>Nanoscale</i> , 2020, 12, 22995-23002.	2.8	6
28	Perfluorinated gallium phthalocyanine axially grafted black phosphorus nanosheets for optical limiting. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10197-10203.	2.7	28
29	Machine Learning Analysis of Raman Spectra of MoS ₂ . <i>Nanomaterials</i> , 2020, 10, 2223.	1.9	13
30	Enhanced optical limiting properties of composite films consisting of hyperbranched phthalocyanine and polyphenylsulfone with high linear transmittance. <i>Synthetic Metals</i> , 2020, 265, 116405.	2.1	10
31	Vertical Heterostructure of SnS ₂ /MoS ₂ Synthesized by Sulfur-Preloaded Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7423-7431.	4.0	22
32	Fused Silica with Embedded 2D-Like Ag Nanoparticle Monolayer: Tunable Saturable Absorbers by Interparticle Spacing Manipulation. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900302.	4.4	30
33	Q-switched mode-locked Nd:GGG waveguide laser with tin disulfide as saturable absorber. <i>Optical Materials</i> , 2020, 100, 109702.	1.7	6
34	Thickness-Dependent Ultrafast Photocarrier Dynamics in Selenizing Platinum Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10719-10726.	1.5	23
35	Ultrafast Saturable Absorbers: Fused Silica with Embedded 2D-Like Ag Nanoparticle Monolayer: Tunable Saturable Absorbers by Interparticle Spacing Manipulation (<i>Laser Photonics Rev.</i> 14(2)/2020). <i>Laser and Photonics Reviews</i> , 2020, 14, 2070014.	4.4	3
36	Tellurium as the saturable absorber for the passively Q-switched laser at 134 Åm. <i>Applied Optics</i> , 2020, 59, 2892.	0.9	5

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37	Two-dimensional $\hat{1}^3$ -graphyne for ultrafast nonlinear optical applications. <i>Optical Materials Express</i> , 2020, 10, 293.	1.6	11
38	Auger-type process in ultrathin ReS_2 . <i>Optical Materials Express</i> , 2020, 10, 1092.	1.6	17
39	Nonlinear Optical Signatures of the Transition from Semiconductor to Semimetal in PtSe_2 . <i>Laser and Photonics Reviews</i> , 2019, 13, 1900052.	4.4	64
40	Ultrafast nonlinear optical response of molybdenum nano-film in wide wavelength range. <i>Optical Materials</i> , 2019, 95, 109244.	1.7	6
41	Ultrafast Carrier Dynamics and Bandgap Renormalization in Layered PtSe_2 . <i>Small</i> , 2019, 15, e1902728.	5.2	60
42	Monolithic waveguide laser mode-locked by embedded Ag nanoparticles operating at $1 \hat{1}^4\text{m}$. <i>Nanophotonics</i> , 2019, 8, 859-868.	2.9	26
43	Surface-State Assisted Carrier Recombination and Optical Nonlinearities in Bulk to 2D Nonlayered PtS. <i>ACS Nano</i> , 2019, 13, 13390-13402.	7.3	37
44	Broadband $\hat{1}^3$ -graphyne saturable absorber for Q-switched solid-state laser. <i>Applied Physics Express</i> , 2019, 12, 122006.	1.1	18
45	Copper Nanoparticles Embedded in Lithium Tantalate Crystals for Multi-GHz Lasers. <i>ACS Applied Nano Materials</i> , 2019, 2, 5871-5877.	2.4	15
46	Fabrication and nonlinear optical characterization of fluorinated zinc phthalocyanine covalently modified black phosphorus/PMMA films using the nanosecond Z-scan technique. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10789-10794.	2.7	30
47	Bacterially synthesized tellurium nanostructures for broadband ultrafast nonlinear optical applications. <i>Nature Communications</i> , 2019, 10, 3985.	5.8	68
48	Vertical Stacking of Copper Sulfide Nanoparticles and Molybdenum Sulfide Nanosheets for Enhanced Nonlinear Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35835-35844.	4.0	7
49	The Role of Chloride Incorporation in Lead-Free 2D Perovskite $(\text{BA})_2\text{SnI}_4$: Morphology, Photoluminescence, Phase Transition, and Charge Transport. <i>Advanced Science</i> , 2019, 6, 1802019.	5.6	42
50	Giant Nonlinear Optical Response in 2D Perovskite Heterostructures. <i>Advanced Optical Materials</i> , 2019, 7, 1900398.	3.6	58
51	Plasmonic Ag nanoparticles embedded in lithium tantalate crystal for ultrafast laser generation. <i>Nanotechnology</i> , 2019, 30, 334001.	1.3	14
52	Hydrothermal synthesis of two-dimensional MoS_2 and its applications. <i>Tungsten</i> , 2019, 1, 59-79.	2.0	45
53	Liquid Exfoliation of Two-Dimensional PbI_2 Nanosheets for Ultrafast Photonics. <i>ACS Photonics</i> , 2019, 6, 1051-1057.	3.2	28
54	Donor-acceptor type black phosphorus nanosheets covalently functionalized with a conjugated polymer for laser protection. <i>Polymer Chemistry</i> , 2019, 10, 6003-6009.	1.9	11

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55	88 GHz Q-switched mode-locked waveguide lasers modulated by PtSe ₂ saturable absorber. Optics Express, 2019, 27, 8727.	1.7	58
56	Competition between stimulated Brillouin scattering and two-photon absorption in dispersed boron nitride. Optics Express, 2019, 27, 11029.	1.7	4
57	Enhanced two-photon absorption and two-photon luminescence in monolayer MoS ₂ and WS ₂ by defect repairing. Optics Express, 2019, 27, 13744.	1.7	33
58	Photonic-crystal-based broadband graphene saturable absorber. Optics Letters, 2019, 44, 4785.	1.7	14
59	Broadband saturable absorption and exciton-exciton annihilation in MoSe ₂ composite thin films. Optical Materials Express, 2019, 9, 483.	1.6	17
60	86-Å Q-switched mode-locked waveguide lasing based on LiNbO ₃ crystal embedded Cu nanoparticles. Optical Materials Express, 2019, 9, 3808.	1.6	14
61	WS ₂ based 523-MHz mode-locked erbium-doped fiber laser for microwave photonic application. Optical Materials Express, 2019, 9, 4688.	1.6	6
62	Layer-modulated two-photon absorption in MoS ₂ : probing the shift of the excitonic dark state and band-edge. Photonics Research, 2019, 7, 762.	3.4	22
63	Direct observation of interlayer coherent acoustic phonon dynamics in bilayer and few-layer PtSe ₂ . Photonics Research, 2019, 7, 1416.	3.4	33
64	Two-photon absorption towards pulse modulation in mechanically exfoliated and CVD monolayer cascaded MoS ₂ structures. Chinese Optics Letters, 2019, 17, 081901.	1.3	4
65	Saturation of Two-Photon Absorption in Layered Transition Metal Dichalcogenides: Experiment and Theory. ACS Photonics, 2018, 5, 1558-1565.	3.2	79
66	Nonlinear Absorption Response Correlated to Embedded Ag Nanoparticles in BGO Single Crystal: From Two-Photon to Three-Photon Absorption. Scientific Reports, 2018, 8, 1977.	1.6	23
67	High-performance mode-locked and Q-switched fiber lasers based on novel 2D materials of topological insulators, transition metal dichalcogenides and black phosphorus: review and perspective (invited). Optics Communications, 2018, 406, 214-229.	1.0	139
68	Donor-acceptor type blends composed of black phosphorus and C ₆₀ for solid-state optical limiters. Chemical Communications, 2018, 54, 366-369.	2.2	51
69	Bilayered Hybrid Perovskite Ferroelectric with Giant Two-Photon Absorption. Journal of the American Chemical Society, 2018, 140, 6806-6809.	6.6	185
70	Enhanced nonlinear optical response of graphene by silver-based nanoparticle modification for pulsed lasing. Optical Materials Express, 2018, 8, 1368.	1.6	27
71	Nonlinear optical performance of few-layer molybdenum diselenide as a slow-saturable absorber. Photonics Research, 2018, 6, 674.	3.4	34
72	Invited Article: Mode-locked waveguide lasers modulated by rhenium diselenide as a new saturable absorber. APL Photonics, 2018, 3, .	3.0	44

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73	Tailoring the nonlinear optical performance of two-dimensional MoS ₂ nanofilms via defect engineering. <i>Nanoscale</i> , 2018, 10, 17924-17932.	2.8	50
74	Lithium Niobate Crystal with Embedded Au Nanoparticles: A New Saturable Absorber for Efficient Mode-Locking of Ultrafast Laser Pulses at 1 Åm. <i>Advanced Optical Materials</i> , 2018, 6, 1800357.	3.6	41
75	Tailoring optical nonlinearities of LiNbO ₃ crystals by plasmonic silver nanoparticles for broadband saturable absorbers. <i>Optics Express</i> , 2018, 26, 31276.	1.7	23
76	Giant Enhancement of Nonlinear Optical Response in Nd:YAG Single Crystals by Embedded Silver Nanoparticles. <i>ACS Omega</i> , 2017, 2, 1279-1286.	1.6	32
77	MoS ₂ /Carbon Nanotube Core-Shell Nanocomposites for Enhanced Nonlinear Optical Performance. <i>Chemistry - A European Journal</i> , 2017, 23, 3321-3327.	1.7	57
78	MoS ₂ nanosheets covalently functionalized with polyacrylonitrile: synthesis and broadband laser protection performance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11920-11926.	2.7	28
79	Ultrafast Nonlinear Optical Properties of a Graphene Saturable Mirror in the 2 ¼m Wavelength Region. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700166.	4.4	38
80	Nonlinear Absorption Induced Transparency and Optical Limiting of Black Phosphorus Nanosheets. <i>ACS Photonics</i> , 2017, 4, 3063-3070.	3.2	92
81	Optically Induced Transparency and Extinction in Dispersed MoS ₂ , MoSe ₂ , and Graphene Nanosheets. <i>Advanced Optical Materials</i> , 2017, 5, 1700543.	3.6	34
82	Exfoliation of Stable 2D Black Phosphorus for Device Fabrication. <i>Chemistry of Materials</i> , 2017, 29, 6445-6456.	3.2	66
83	Passively Q-Switched Laser at 1.3 ¼m With Few-Layered MoS ₂ Saturable Absorber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 71-75.	1.9	30
84	Q-switching of waveguide lasers based on graphene/WS ₂ van der Waals heterostructure. <i>Photonics Research</i> , 2017, 5, 406.	3.4	58
85	Tin diselenide as a new saturable absorber for generation of laser pulses at 1 ¼m. <i>Optics Express</i> , 2017, 25, 6132.	1.7	69
86	All-optical phase shifter and switch near 1550nm using tungsten disulfide (WS ₂) deposited tapered fiber. <i>Optics Express</i> , 2017, 25, 17639.	1.7	107
87	Covalent Modification of MoS ₂ with Poly(vinylcarbazole) for Solid-State Broadband Optical Limiters. <i>Chemistry - A European Journal</i> , 2016, 22, 4500-4507.	1.7	35
88	Slow and fast absorption saturation of black phosphorus: experiment and modelling. <i>Nanoscale</i> , 2016, 8, 17374-17382.	2.8	46
89	Dispersion of nonlinear refractive index in layered WS ₂ and WSe ₂ semiconductor films induced by two-photon absorption. <i>Optics Letters</i> , 2016, 41, 3936.	1.7	86
90	Graphene and its derivatives for laser protection. <i>Progress in Materials Science</i> , 2016, 84, 118-157.	16.0	128

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91	Ultrafast Nonlinear Excitation Dynamics of Black Phosphorus Nanosheets from Visible to Mid-Infrared. ACS Nano, 2016, 10, 6923-6932.	7.3	231
92	Direct synthesis of large-scale hierarchical MoS ₂ films nanostructured with orthogonally oriented vertically and horizontally aligned layers. Nanoscale, 2016, 8, 431-439.	2.8	39
93	Optical Limiting and Theoretical Modelling of Layered Transition Metal Dichalcogenide Nanosheets. Scientific Reports, 2015, 5, 14646.	1.6	236
94	Giant two-photon absorption in monolayer MoS ₂ . Laser and Photonics Reviews, 2015, 9, 427-434.	4.4	161
95	Facile fabrication of wafer-scale MoS ₂ neat films with enhanced third-order nonlinear optical performance. Nanoscale, 2015, 7, 2978-2986.	2.8	58
96	Direct Observation of Degenerate Two-Photon Absorption and Its Saturation in WS ₂ and MoS ₂ Monolayer and Few-Layer Films. ACS Nano, 2015, 9, 7142-7150.	7.3	322
97	463-MHz fundamental mode-locked fiber laser based on few-layer MoS ₂ saturable absorber. Optics Letters, 2015, 40, 1374.	1.7	116
98	Saturable absorption behavior of free-standing graphene polymer composite films over broad wavelength and time ranges. Optics Express, 2015, 23, 559.	1.7	65
99	WS ₂ as a saturable absorber for ultrafast photonic applications of mode-locked and Q-switched lasers. Optics Express, 2015, 23, 11453.	1.7	338
100	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. Nature Communications, 2015, 6, 8563.	5.8	921
101	Optical limiting properties of a nonlinear multilayer Fabry-Perot resonator containing niobium pentoxide as nonlinear medium. Optics Letters, 2014, 39, 4847.	1.7	13
102	Tunable effective nonlinear refractive index of graphene dispersions during the distortion of spatial self-phase modulation. Applied Physics Letters, 2014, 104, .	1.5	84
103	Broadband ultrafast nonlinear absorption and nonlinear refraction of layered molybdenum dichalcogenide semiconductors. Nanoscale, 2014, 6, 10530-10535.	2.8	328
104	Ultrafast Saturable Absorption of Two-Dimensional MoS ₂ Nanosheets. ACS Nano, 2013, 7, 9260-9267.	7.3	905
105	Graphene oxide covalently functionalized with zinc phthalocyanine for broadband optical limiting. Carbon, 2011, 49, 1900-1905.	5.4	255
106	Control of Optical Limiting of Carbon Nanotube Dispersions by Changing Solvent Parameters. Journal of Physical Chemistry C, 2010, 114, 6148-6156.	1.5	42
107	Broadband Nonlinear Optical Response of Graphene Dispersions. Advanced Materials, 2009, 21, 2430-2435.	11.1	486
108	Carbon nanotubes and nanotube composites for nonlinear optical devices. Journal of Materials Chemistry, 2009, 19, 7425.	6.7	217

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109	Inorganic and hybrid nanostructures for optical limiting. Journal of Optics, 2009, 11, 024001.	1.5	178