Huanian Zhang

List of Publications by Year
in descending order

70 papers	3,463 citations	304743 22 h-index	138484 58 g-index
70 all docs	70 docs citations	70 times ranked	3541 citing authors

#	Article	IF	Citations
1	Passively mode-locked Er-doped fiber laser based on a ferromagnetic insulator Cr₂Si₂Te₆ as a saturable absorber. Applied Optics, 2022, 61, 898.	1.8	12
2	High Power and Large-Energy Pulse Generation in an Erbium-Doped Fiber Laser by a Ferromagnetic Insulator-Cr2Si2Te6 Saturable Absorber. Nanomaterials, 2022, 12, 564.	4.1	6
3	Harmonic and fundamental-frequency mode-locked operations in an Er-doped fiber laser using a Cr₂Si₂Te₆-based saturable absorber. Optical Materials Express, 2022, 12, 166.	3.0	53
4	Efficient Saturable Absorber Based on Ferromagnetic Insulator Cr2Ge2Te6 in Er-Doped Mode-Locked Fiber Laser. Nanomaterials, 2022, 12, 751.	4.1	9
5	Ultrafast photonics applications of emerging 2D-Xenes beyond graphene. Nanophotonics, 2022, 11, 1261-1284.	6.0	65
6	Generation of bright-dark soliton pairs based on a ferromagnetic insulator Cr₂Si₂Te₆ as a modulator in an Er-doped fiber laser. Applied Optics, 2022, 61, 3254.	1.8	1
7	Nonlinear photoresponse of high damage threshold titanium disulfide nanocrystals for Q-switched pulse generation. Optics and Laser Technology, 2022, 151, 107988.	4.6	79
8	Bright-dark-bright soliton generation in erbium-doped fiber laser based on Pb3Sn4FeSb2S14 saturable absorber. Optical Fiber Technology, 2022, 71, 102904.	2.7	1
9	Nonlinear optical properties of ferromagnetic insulator Cr2Ge2Te6 and its application for passively Q-switched Er-doped fiber laser. Photonics and Nanostructures - Fundamentals and Applications, 2022, 50, 101028.	2.0	3
10	Multi-element two-dimensional compounds Pb3Sn4FeSb2S14 as saturable absorber to demonstrate large-energy mode-locked pulse generations. Optik, 2022, , 169411.	2.9	0
11	Demonstration of passively Q-switched and mode-locked operations through dispersion control in Er-doped fiber lasers with a cylindrite-based saturable absorber. Journal of Luminescence, 2022, 250, 119064.	3.1	9
12	Demonstration of high-stable self-mode-locking pulses based on self-focusing in fiber lasers. Infrared Physics and Technology, 2022, 125, 104244.	2.9	4
13	Mode-locked fiber laser based on Pb3Sn4FeSb2S14 saturable absorber. Optical Fiber Technology, 2022, 72, 102951.	2.7	1
14	Traditional soliton erbium-doped fiber laser with InSe as saturable absorber. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 325-333.	2.6	8
15	Few-layer TaSe₂ as a saturable absorber for passively Q-switched erbium-doped fiber lasers. Optical Materials Express, 2021, 11, 385.	3.0	18
16	Review of pulse compression gratings for chirped pulse amplification system. Optical Engineering, 2021, 60, .	1.0	11
17	Review of passive polarimetric dehazing methods. Optical Engineering, 2021, 60, .	1.0	6
18	Ultrathin 2D Nonlayered Tellurene Nanosheets as Saturable Absorber for Picosecond Pulse Generation in All-Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-6.	2.9	18

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19	Passive mode-locked Er-doped fiber laser pulse generation based on titanium disulfide saturable absorber. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 756-766.	2.6	5
20	Generation of Q-switched-mode-locked operations in Er-doped fiber laser based on dispersion compensating fiber saturable absorber. Journal of Luminescence, 2021, 234, 117966.	3.1	6
21	Single- and dual-wavelength noise-like pulses generation in a Nd-doped all-fiber ring laser based on nonlinear polarization rotation. Infrared Physics and Technology, 2021, 116, 103744.	2.9	6
22	Q-switched dissipative soliton resonance operation in GeTe based fiber laser. Infrared Physics and Technology, 2021, 116, 103806.	2.9	6
23	Generation of single-,dual-wavelength mode-locked operations based on ZrSe2 as saturable absorber in an Er-doped fiber laser. Infrared Physics and Technology, 2021, 116, 103775.	2.9	6
24	Large-energy mode-locked Er-doped fiber laser based Cr2Si2Te6 as a modulator. Infrared Physics and Technology, 2021, 119, 103941.	2.9	7
25	Bright Soliton and Brightâ€“Dark Soliton Pair in an Er-Doped Fiber Laser Mode-Locked Based on In2Se3 Saturable Absorber. Frontiers in Physics, 2021, 9, .	2.1	0
26	Q-Switched Erbium-doped Fiber Laser Based on Silicon Nanosheets as Saturable Absorber. Optik, 2020, 202, 163692.	2.9	23
27	Bi2Se3/mica optical modulator for high-energy mode-locked Er-doped fiber laser. Infrared Physics and Technology, 2020, 111, 103453.	2.9	10
28	Titanium Disulfide Based Saturable Absorber for Generating Passively Mode-Locked and Q-Switched Ultra-Fast Fiber Lasers. Nanomaterials, 2020, 10, 1922.	4.1	66
29	Conventional solitons and bound-state solitons in an erbium-doped fiber laser mode-locked by TiSe₂-based saturable absorber. Nanotechnology, 2020, 31, 365202.	2.6	21
30	Preparation of high-damage threshold WS2 modulator and its application for generating high-power large-energy bright-dark solitons. Infrared Physics and Technology, 2020, 105, 103257.	2.9	20
31	Tin monoselenide based saturable absorbers for the generation of ultrashort pulses. Infrared Physics and Technology, 2020, 108, 103349.	2.9	4
32	Few-layer silicene nanosheets as saturable absorber for subpicosecond pulse generation in all-fiber laser. Optics and Laser Technology, 2020, 131, 106397.	4.6	12
33	Tellurene-based saturable absorber to demonstrate large-energy dissipative soliton and noise-like pulse generations. Nanophotonics, 2020, 9, 2783-2795.	6.0	149
34	2D graphdiyne: an excellent ultraviolet nonlinear absorption material. Nanoscale, 2020, 12, 6243-6249.	5.6	40
35	Nonlinear optical absorption properties of zirconium selenide in generating dark soliton and dark-bright soliton pairs. Applied Optics, 2020, 59, 396.	1.8	21
36	CVD-Bi₂Te₃ as a saturable absorber for various solitons in a mode-locked Er-doped fiber laser. Applied Optics, 2020, 59, 7792.	1.8	12

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37	ZrSe₂ nanosheet as saturable absorber for soliton operations within an Er-doped passive mode-locked fiber laser. Applied Optics, 2020, 59, 7484.	1.8	8
38	Passively Q-switched and mode-locked erbium-doped fiber lasers based on tellurene nanosheets as saturable absorber. Optics Express, 2020, 28, 14729.	3.4	44
39	Palladium selenide as a broadband saturable absorber for ultra-fast photonics. Nanophotonics, 2020, 9, 2557-2567.	6.0	91
40	Palladium diselenide as a direct absorption saturable absorber for ultrafast mode-locked operations: from all anomalous dispersion to all normal dispersion. Nanophotonics, 2020, 9, 4295-4306.	6.0	100
41	Investigations of mode-locked Er-doped oscillators with record high-pulse energies. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	2
42	Nonlinear optical properties of ferromagnetic insulator Cr₂Ge₂Te₆ and its application for demonstrating pulsed fiber laser. Applied Physics Express, 2019, 12, 082006.	2.4	27
43	Observation of the dispersion effect of SnS2 nanosheets in all-normal-dispersion Yb-doped mode-locked fiber laser. Infrared Physics and Technology, 2019, 102, 102982.	2.9	3
44	Nonlinear Optical Properties of Zirconium Diselenide and Its Ultra-Fast Modulator Application. Nanomaterials, 2019, 9, 1419.	4.1	11
45	High-Power Large-Energy Rectangular Mode-Locked Er-Doped Fiber Laser Based on High-Damage-Threshold MoS₂ Saturable Absorber. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	8
46	Improved Laser Damage Threshold of In2Se3 Saturable Absorber by PVD for High-Power Mode-Locked Er-Doped Fiber Laser. Nanomaterials, 2019, 9, 1216.	4.1	28
47	170 mW-level mode-locked Er-doped fiber laser oscillator based on nonlinear polarization rotation. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	10
48	High-Power Large-Energy Raman Soliton Generations Within a Mode-Locked Yb-Doped Fiber Laser Based on High-Damage-Threshold CVD-MoS2 as Modulator. Nanomaterials, 2019, 9, 1305.	4.1	4
49	Versatile Mode-Locked Operations in an Er-Doped Fiber Laser with a Film-Type Indium Tin Oxide Saturable Absorber. Nanomaterials, 2019, 9, 701.	4.1	30
50	Passively mode-locked dual-wavelength Er-doped fiber laser based on antimony tin oxide as saturable absorber. Laser Physics, 2019, 29, 045801.	1.2	7
51	Large-energy mode-locked ytterbium-doped linear-cavity fiber laser based on chemical vapor deposition-Bi2Se3 as a saturable absorber. Applied Optics, 2019, 58, 2695.	1.8	10
52	Noise-like mode-locked Yb-doped fiber laser in a linear cavity based on SnS2 nanosheets as a saturable absorber. Applied Optics, 2019, 58, 6007.	1.8	10
53	Generation of high-energy rectangular pulses in a nonlinear polarization rotation mode-locked ring fiber laser. Applied Optics, 2019, 58, 7897.	1.8	8
54	Ferromagnetic insulator Cr2Ge2Te6 as a modulator for generating near-infrared bright-dark soliton pairs. Applied Optics, 2019, 58, 9217.	1.8	23

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55	Output energy enhancement in a mode-locked Er-doped fiber laser using CVD-Bi2Se3 as a saturable absorber. Optics Express, 2019, 27, 24670.	3.4	42
56	Large-energy passively Q-switched Er-doped fiber laser based on CVD-Bi₂Se₃ as saturable absorber. Optical Materials Express, 2019, 9, 373.	3.0	94
57	Large energy pulses generation in a mode-locked Er-doped fiber laser based on CVD-grown Bi₂Te₃ saturable absorber. Optical Materials Express, 2019, 9, 3535.	3.0	22
58	Dark solitons in erbium-doped fiber lasers based on indium tin oxide as saturable absorbers. Optical Materials, 2018, 78, 432-437.	3.6	25
59	High-efficiency passively Q-switched neodymium-doped fiber laser operation at 1360.61â€‰nm with bismuth selenide as saturable absorber. Laser Physics, 2018, 28, 125801.	1.2	15
60	Nonlinear absorption properties of indium selenide and its application for demonstrating pulsed Er-doped fiber laser. Laser Physics Letters, 2018, 15, 105101.	1.4	30
61	Passively mode-locked Er-doped fiber laser based on SnS_2 nanosheets as a saturable absorber. Photonics Research, 2018, 6, 72.	7.0	228
62	Mode-locked Er-doped fiber laser based on PbS/CdS core/shell quantum dots as saturable absorber. Optics Express, 2018, 26, 9017.	3.4	152
63	High-power passively Q-switched Yb-doped fiber laser based on Tin selenide as a saturable absorber. Laser Physics, 2018, 28, 085105.	1.2	19
64	Various large-energy soliton operations within an Er-doped fiber laser with bismuth selenide as a saturable absorber. Applied Optics, 2018, 57, 8811.	1.8	21
65	Nonlinear saturable absorption properties of indium selenide and its application for demonstrating a Yb-doped mode-locked fiber laser. Optical Materials Express, 2018, 8, 3092.	3.0	30
66	Passively Q-switched erbium-doped fiber laser based on SnS_2 saturable absorber. Optical Materials Express, 2017, 7, 3934.	3.0	100
67	Passively Mode-Locked Ytterbium-Doped Fiber Laser Based on SnS2 as Saturable Absorber. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	1,458
68	High-efficiency eye-safe Nd:YAG/SrWO4 Raman laser operating at 1664Ânm. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	8
69	Gold nanobipyramids as saturable absorbers for passively Q-switched laser generation in the 11â€‰â€‰Î¼m region. Optics Letters, 2016, 41, 1150.	3.3	76
70	Third-order harmonic mode-locked and Q-switched Er-doped fiber laser based on a Cr2Ge2Te6 saturable absorber. Applied Optics, 0, , .	1.8	1