Weidong Chen

List of Publications by Year
in descending order

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85	1,534	331670	377865
papers	citations	21 h-index	34 g-index

102	102	102	1096
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polarized spectroscopy and diode-pumped laser operation of disordered Yb:Ca₃Gd₂(BO₃)₄ crystal. Optical Materials Express, 2022, 12, 673.	3.0	5
2	Polarized spectroscopy and SESAM mode-locking of Tm,Ho:CALGO. Optics Express, 2022, 30, 7883.	3.4	21
3	Absolute determination of chemical kinetic rate constants by optical tracking the reaction on the second timescale using cavity-enhanced absorption spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 7396-7404.	2.8	3
4	Soliton mode-locked Yb:Ca₃Gd₂(BO₃)₄ laser. Optics Express, 2022, 30, 11833.	3.4	2
5	Diode-pumped and tunable laser operation of Tm,Ho-codoped modified CNGG-type disordered crystals. , 2022, , .		0
6	SESAM mode-locked Yb:Sr₃Y₂(BO₃)₄ laser. Optics Express, 2022, 30, 11861.	3.4	8
7	Diode-pumped SESAM mode-locked Yb:(Y,Gd)AlO₃ laser. Optics Express, 2022, 30, 11825.	3.4	5
8	Disordered Yb:GdYCOB crystal: polarized spectroscopy, thermal lensing and diode-pumped lasers. , 2022, , .		0
9	Continuous-wave and passively mode-locked operation of Yb:Ca3Gd2(BO3)4 laser. , 2022, , .		0
10	Growth, structure, and polarized spectroscopy of monoclinic Er³⁺:MgWO₄ crystal. Optical Materials Express, 2022, 12, 2028.	3.0	3
11	Diode-pumped mode-locked Yb:BaF₂ laser. Optics Express, 2022, 30, 15807.	3.4	9
12	Kerr-lens mode-locked ytterbium-activated orthoaluminate laser. Optics Letters, 2022, 47, 3027.	3.3	4
13	Watt-level femtosecond Tm-doped â€œmixedâ€•sesquioxide ceramic laser in-band pumped by a Raman fiber laser at 1627 nm. Optics Express, 2022, 30, 23978.	3.4	14
14	Impact of Lock-In Time Constant on Remote Monitoring of Trace Gas in the Atmospheric Column Using Laser Heterodyne Radiometer (LHR). Remote Sensing, 2022, 14, 2923.	4.0	7
15	Disordered Tm3+,Ho3+-codoped CNGG garnet crystal: Towards efficient laser materials for ultrashort pulse generation at â¼2Âĺm. Journal of Alloys and Compounds, 2021, 853, 157100.	5.5	20
16	Structured laser beams: toward 2-Î¼m femtosecond laser vortices. Photonics Research, 2021, 9, 357.	7.0	24
17	Diode-pumped sub-50-fs Kerr-lens mode-locked Yb:GdYCOB laser. Optics Express, 2021, 29, 13496.	3.4	9
18	Sub-50â€‰â€‰fs pulse generation from a SESAM mode-locked Tm,Ho-codoped calcium aluminate laser. Optics Letters, 2021, 46, 2642.	3.3	21

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19	Kerr-lens mode-locked Tm-doped sesquioxide ceramic laser. Optics Letters, 2021, 46, 3428.	3.3	19
20	Tm3+-doped calcium lithium tantalum gallium garnet (Tm:CLTGG): novel laser crystal. Optical Materials Express, 2021, 11, 2938.	3.0	3
21	Intercomparison of IBBCEAS, NitroMAC and FTIR analyses for HONO, NO₂ and CH₂O measurements during the reaction of NO₂ with H₂O vapour in the simulation chamber CESAM. Atmospheric Measurement Techniques, 2021, 14, 5701-5715.	3.1	9
22	Tm:YAG single-crystal fiber laser. Optics Letters, 2021, 46, 4454.	3.3	14
23	Sub-100 fs mode-locked Tm:CLTGG laser. Optics Express, 2021, 29, 31137.	3.4	9
24	Nanosecond optical parametric oscillator with midinfrared intracavity difference-frequency mixing in orientation-patterned GaAs. Optics Letters, 2021, 46, 332.	3.3	5
25	Continuous-wave and SESAM mode-locked operation of the Yb:Bi4Si3O12 laser. Optics Express, 2021, 29, 105.	3.4	5
26	SESAM Mode-Locked Yb:Ca3Gd2(BO3)4 Femtosecond Laser. Applied Sciences (Switzerland), 2021, 11, 9464.	2.5	4
27	SWCNT-SA mode-locked Tm,Ho:LCLNGG laser. Optics Express, 2021, 29, 40323.	3.4	6
28	Kerr-lens mode-locked Yb:SrLaAlO₄ laser. Optics Express, 2021, 29, 42837.	3.4	11
29	SESAM mode-locked Yb:SrLaAlO₄ laser. Optics Express, 2021, 29, 43820.	3.4	4
30	A Dual-Laser Sensor Based on Off-Axis Integrated Cavity Output Spectroscopy and Time-Division Multiplexing Method. Sensors, 2020, 20, 6192.	3.8	9
31	35 W continuous-wave Ho:YAG single-crystal fiberÂlaser. High Power Laser Science and Engineering, 2020, 8, .	4.6	16
32	Simultaneous measurements of the relative-humidity-dependent aerosol light extinction, scattering, absorption, and single-scattering albedo with a humidified cavity-enhanced albedometer. Atmospheric Measurement Techniques, 2020, 13, 2623-2634.	3.1	9
33	SESAM mode-locked Tm:LuYO₃ ceramic laser generating 54-fs pulses at 2048â€‰â€‰nm. Applied Optics, 2020, 59, 10493.	1.8	40
34	SWCNT-SA mode-locked Tm:LuYO₃ ceramic laser delivering 8-optical-cycle pulses at 2.05â€‰â€‰Âµm. Optics Letters, 2020, 45, 459.	3.3	26
35	Spectroscopy and high-power laser operation of a monoclinic Yb³⁺:MgWO₄ crystal. Optics Letters, 2020, 45, 1770.	3.3	10
36	Low-loss fs-laser-written surface waveguide lasers at >2â€‰â€‰Âµm in monoclinic Tm3+:MgWO4. Optics Letters, 2020, 45, 4060.	3.3	4

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37	Single-walled carbon-nanotube saturable absorber assisted Kerr-lens mode-locked Tm:MgWO4 laser. Optics Letters, 2020, 45, 6142.	3.3	11
38	Coherent combination of two intracavity eigenmodes producing linearly polarized emission in an isotropic laser. Optics Express, 2020, 28, 34337.	3.4	6
39	Spectroscopy and efficient laser operation of cleaving Yb:KY(MoO4)2 crystal. Optical Materials Express, 2020, 10, 2356.	3.0	5
40	Growth, spectroscopy and first laser operation of monoclinic Ho3+:MgWO4 crystal. Journal of Luminescence, 2019, 213, 316-325.	3.1	18
41	Dual-Gas Sensor of CH4/C2H6 Based on Wavelength Modulation Spectroscopy Coupled to a Home-Made Compact Dense-Pattern Multipass Cell. Sensors, 2019, 19, 820.	3.8	25
42	A novel solid-solution garnet Yb:YAG-MnASG with enhanced spectral properties. Journal of Alloys and Compounds, 2019, 786, 77-83.	5.5	10
43	67-fs pulse generation from a mode-locked Tm,Ho:CLNGG laser at 2083 nm. Optics Express, 2019, 27, 1922.	3.4	32
44	Enhancing off-axis integrated cavity output spectroscopy (OA-ICOS) with radio frequency white noise for gas sensing. Optics Express, 2019, 27, 30517.	3.4	20
45	High-sensitivity off-axis integrated cavity output spectroscopy implementing wavelength modulation and white noise perturbation. Optics Letters, 2019, 44, 3298.	3.3	19
46	Narrow-band periodically poled lithium niobate nonresonant optical parametric oscillator. Optics Letters, 2019, 44, 5659.	3.3	12
47	Graphene mode-locked Tm,Ho-codoped crystalline garnet laser producing 70-fs pulses near 21â€…Âµm. OSA Continuum, 2019, 2, 2593.	1.8	1
48	Three-wavelength cavity-enhanced albedometer for measuring wavelength-dependent optical properties and single-scattering albedo of aerosols. Optics Express, 2018, 26, 33484.	3.4	16
49	The influence of photochemical aging on light absorption of atmospheric black carbon and aerosol single-scattering albedo. Atmospheric Chemistry and Physics, 2018, 18, 16829-16844.	4.9	40
50	Li₂Gd₄(MoO₄)₇ crystal preparation and spectral properties applied to 2.0 Î¼m lasers. CrystEngComm, 2018, 20, 6472-6481.	2.6	24
51	Monoclinic Tm:MgWO4 crystal: Crystal-field analysis, tunable and vibronic laser demonstration. Journal of Alloys and Compounds, 2018, 763, 581-591.	5.5	18
52	Growth, spectroscopy, and laser operation of â€œmixedâ€•vanadate crystals Yb:Lu₁₋x-yYxLayVO₄. Optical Materials Express, 2018, 8, 493.	3.0	8
53	Crystal growth, spectroscopy and first laser operation of a novel disordered tetragonal Tm:Na2La4(WO4)7 tungstate crystal. Journal of Luminescence, 2018, 203, 676-682.	3.1	10
54	Direct generation of an optical vortex beam from a diode-pumped Yb:MgWO₄laser. Laser Physics Letters, 2017, 14, 085807.	1.4	13

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55	Circular Regression in a Dual-Phase Lock-In Amplifier for Coherent Detection of Weak Signal. Sensors, 2017, 17, 2615.	3.8	9
56	Crystal growth, optical spectroscopy and laser action of Tm^3+-doped monoclinic magnesium tungstate. Optics Express, 2017, 25, 3682.	3.4	36
57	Portable broadband cavity-enhanced spectrometer utilizing Kalman filtering: application to real-time, in situ monitoring of glyoxal and nitrogen dioxide. Optics Express, 2017, 25, 26910.	3.4	37
58	SESAM mode-locked Yb:GdYCOB femtosecond laser. Optical Materials Express, 2017, 7, 3791.	3.0	8
59	Continuous-wave and SESAM mode-locked femtosecond operation of a Yb:MgWO_4 laser. Optics Express, 2017, 25, 11827.	3.4	7
60	YVO_4 Raman laser pumped by a passively Q-switched Yb:YAG laser. Optics Express, 2017, 25, 14033.	3.4	21
61	Monoclinic Tm^3+:MgWO_4: a promising crystal for continuous-wave and passively Q-switched lasers at â^¼2â€‰â€‰Î¼m. Optics Letters, 2017, 42, 1177.	3.3	17
62	Sub-100â€‰â€‰fs Tm:MgWO_4 laser at 2017â€‰â€‰nm mode locked by a graphene saturable absorber. Optics Letters, 2017, 42, 3076.	3.3	57
63	Development of an incoherent broad-band cavity-enhanced aerosol extinction spectrometer and its application to measurement of aerosol optical hygroscopicity. Applied Optics, 2017, 56, E16.	2.1	15
64	Sensing atmospheric reactive species using light emitting diode by incoherent broadband cavity enhanced absorption spectroscopy. Optics Express, 2016, 24, A781.	3.4	27
65	Optical properties of atmospheric fine particles near Beijing during the HOPE-J³A campaign. Atmospheric Chemistry and Physics, 2016, 16, 6421-6439.	4.9	38
66	Characterization of growth, optical properties, and laser performance of monoclinic Yb:MgWO_4 crystal. Optical Materials Express, 2016, 6, 1627.	3.0	26
67	Highly sensitive detection of methane by near-infrared laser absorption spectroscopy using a compact dense-pattern multipass cell. Sensors and Actuators B: Chemical, 2015, 220, 1000-1005.	7.8	150
68	Fabrication and planar waveguide laser behavior of YAG/Nd:YAG/YAG composite ceramics by tape casting. Journal of Alloys and Compounds, 2015, 640, 317-320.	5.5	34
69	Diode-pumped tape casting planar waveguide YAG/Nd:YAG/YAG ceramic laser. Optics Express, 2015, 23, 8104.	3.4	14
70	Identification of cancerous gastric cells based on common features extracted from hyperspectral microscopic images. Biomedical Optics Express, 2015, 6, 1135.	2.9	36
71	Composite Yb:YAG/Cr^4+:YAG/YAG crystal passively Q-switched lasers at 1030â€‰â€‰nm. Applied Optics, 2015, 54, 1834.	1.8	13
72	Short-lived species detection of nitrous acid by external-cavity quantum cascade laser based quartz-enhanced photoacoustic absorption spectroscopy. Applied Physics Letters, 2015, 106, .	3.3	70

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73	Measurement of the D/H, 18O/16O, and 17O/16O Isotope Ratios in Water by Laser Absorption Spectroscopy at 2.73 Î¼m. Sensors, 2014, 14, 9027-9045.	3.8	12
74	Manipulation of linearly polarized states in a diode-pumped YAG/Tm:YAG/YAG bulk laser. Optics Letters, 2014, 39, 1945.	3.3	10
75	Development and deployment of a cavity enhanced UV-LED spectrometer for measurements of atmospheric HONO and NO2 in Hong Kong. Atmospheric Environment, 2014, 95, 544-551.	4.1	50
76	Comparative investigation of diode-wing-pumped Tm:Y3Al5O12 laser between composite and non-composite crystal. Optics and Laser Technology, 2014, 63, 132-136.	4.6	5
77	Spectra and broad-spectral laser operation of a disordered Nd:LiLa(MoO₄)₂ crystal. Journal of Modern Optics, 2013, 60, 920-924.	1.3	2
78	Efficient end-pumped multi-wavelength laser operation of disordered Nd:LiGd(WO4)2crystal. Laser Physics, 2013, 23, 095807.	1.2	1
79	Wavelength-Resolved Optical Extinction Measurements of Aerosols Using Broad-Band Cavity-Enhanced Absorption Spectroscopy over the Spectral Range of 445â€“480 nm. Analytical Chemistry, 2013, 85, 2260-2268.	6.5	49
80	Spontaneous picosecond pulse generation in a diode-pumped Nd:YAP laser. Optics Express, 2013, 21, 25091.	3.4	7
81	Spectroscopic properties and energy transfers in Cr, Tm, Ho triple-doped Y_3Al_5O_12 transparent ceramics. Optical Materials Express, 2013, 3, 2037.	3.0	20
82	Second-Stokes YVO_4/Nd:YVO_4/YVO_4self-frequency Raman laser. Optics Letters, 2012, 37, 1968.	3.3	29
83	Achievement of an efficient 1053 nm Nd:YLF polarized laser based on different thermal lensing effects. Journal of Optics (United Kingdom), 2012, 14, 095201.	2.2	5
84	Yellow-light generation of 57 W by intracavity doubling self-Raman laser of YVO_4/Nd:YVO_4 composite. Optics Letters, 2009, 34, 2763.	3.3	76
85	Power-scalable sub-100-fs Tm laser at 2.08 Î¼m. High Power Laser Science and Engineering, 0, , 1-20.	4.6	5