

Meng Zhang

List of Publications by Year in descending order

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69
papers

1,954
citations

430874

18
h-index

289244

40
g-index

69
all docs

69
docs citations

69
times ranked

2467
citing authors

#	ARTICLE	IF	CITATIONS
1	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. Nature Communications, 2017, 8, 278.	12.8	311
2	Solution processed MoS ₂ -PVA composite for sub-bandgap mode-locking of a wideband tunable ultrafast Er: fiber laser. Nano Research, 2015, 8, 1522-1534.	10.4	256
3	2D Black Phosphorus Saturable Absorbers for Ultrafast Photonics. Advanced Optical Materials, 2019, 7, 1800224.	7.3	235
4	Black Phosphorus Based All-Optical-Signal-Processing: Toward High Performances and Enhanced Stability. ACS Photonics, 2017, 4, 1466-1476.	6.6	173
5	MXene Ti ₃ C ₂ T _x : A Promising Photothermal Conversion Material and Application in All-Optical Modulation and All-Optical Information Loading. Advanced Optical Materials, 2019, 7, 1900060.	7.3	115
6	102 fs pulse generation from a long-term stable, inkjet-printed black phosphorus-mode-locked fiber laser. Optics Express, 2018, 26, 12506.	3.4	104
7	A general ink formulation of 2D crystals for wafer-scale inkjet printing. Science Advances, 2020, 6, eaba5029.	10.3	89
8	MZI-Based All-Optical Modulator Using MXene Ti ₃ C ₂ T _x (T =) Tj EI Qq 0 0 0 rgBT /Overl	5.8	87
9	A bismuthene-based multifunctional all-optical phase and intensity modulator enabled by photothermal effect. Journal of Materials Chemistry C, 2019, 7, 871-878.	5.5	67
10	Asynchronous and synchronous dual-wavelength pulse generation in a passively mode-locked fiber laser with a mode-locker. Optics Letters, 2017, 42, 4942.	3.3	50
11	Reaction heterogeneity in the bridging effect of divalent cations on polysaccharide fouling. Journal of Membrane Science, 2022, 641, 119933.	8.2	48
12	Anisotropic Plasmonic Nanostructure Induced Polarization Photoresponse for MoS ₂ -Based Photodetector. Advanced Materials Interfaces, 2020, 7, 1902179.	3.7	41
13	All-Optical Control of Microfiber Knot Resonator Based on 2D Ti ₂ CT _x MXene. Advanced Optical Materials, 2020, 8, 1900977.	7.3	39
14	Wideband saturable absorption in metal-organic frameworks (MOFs) for mode-locking Er- and Tm-doped fiber lasers. Nanoscale, 2020, 12, 4586-4590.	5.6	36
15	MXene-based high-performance all-optical modulators for actively Q-switched pulse generation. Photonics Research, 2020, 8, 1140.	7.0	30
16	Antifouling mechanism of the additive-free $\hat{2}$ -PVDF membrane in water purification process: Relating the surface electron donor monopolarity to membrane-foulant interactions. Journal of Membrane Science, 2020, 601, 117873.	8.2	27
17	High Sensitivity Fiber-Optic Strain Sensor Based on Modified Microfiber-Assisted Open-Cavity Mach-Zehnder Interferometer. Journal of Lightwave Technology, 2021, 39, 4556-4563.	4.6	24
18	Environmentally stable black phosphorus saturable absorber for ultrafast laser. Nanophotonics, 2020, 9, 2445-2449.	6.0	21

#	ARTICLE	IF	CITATIONS
19	Low-cost precise measurement of oscillator frequency instability based on GNSS carrier observation. <i>Advances in Space Research</i> , 2013, 51, 969-977.	2.6	20
20	Silicon hybrid plasmonic microring resonator for sensing applications. <i>Applied Optics</i> , 2015, 54, 7131.	2.1	18
21	Broad bandwidth dual-wavelength fiber laser simultaneously delivering stretched pulse and dissipative soliton. <i>Optics Express</i> , 2020, 28, 6937.	3.4	17
22	A few-layer InSe-based sensitivity-enhanced photothermal fiber sensor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 132-138.	5.5	15
23	Hybrid plasmonic microcavity with an air-filled gap for sensing applications. <i>Optics Communications</i> , 2016, 380, 6-9.	2.1	14
24	Sub-150 fs dispersion-managed soliton generation from an all-fiber Tm-doped laser with BP-SA. <i>Optics Express</i> , 2020, 28, 34104.	3.4	12
25	Meridian whispering gallery modes sensing in a sessile microdroplet on micro/nanostructured superhydrophobic chip surfaces. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	9
26	Light sheet fluorescence microscopy applied for in situ membrane fouling characterization: The microscopic events of hydrophilic membrane in resisting DEX fouling. <i>Water Research</i> , 2020, 185, 116240.	11.3	9
27	Group delay dispersion compensation in an Ytterbium-doped fiber laser using intracavity Gires-Tournois interferometers. <i>Optics and Laser Technology</i> , 2010, 42, 1077-1079.	4.6	8
28	All-Optical Transparent Forwarding Relay System for Interstellar Optical Communication Networks. <i>IEEE Journal of Quantum Electronics</i> , 2018, 54, 1-7.	1.9	8
29	A Tunable Optical Bragg Grating Filter Based on the Droplet Sagging Effect on a Superhydrophobic Nanopillar Array. <i>Sensors</i> , 2019, 19, 3324.	3.8	8
30	Fiber-based all-optical modulation based on two-dimensional materials. <i>2D Materials</i> , 2021, 8, 012003.	4.4	8
31	Spontaneous emission interference in topological insulator multilayers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1890.	2.1	8
32	High quality factor multi-layer symmetric hybrid plasmonic microresonator for sensing applications. <i>Optics Communications</i> , 2017, 403, 68-72.	2.1	7
33	Multiwavelength, subpicosecond pulse generation from a SWNT-SA mode-locked ring birefringent fiber laser. , 2015, , .		6
34	High-Q BSW-whispering gallery modes in periodic multi-layer microring resonator. <i>Optics Communications</i> , 2018, 410, 479-482.	2.1	5
35	2D Xenon: from fundamentals to applications. <i>Nanophotonics</i> , 2020, 9, 1555-1556.	6.0	4
36	Two-dimensional material as a saturable absorber for mid-infrared ultrafast fiber laser. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 188101.	0.5	4

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37	Erbium-Doped Fiber Lasers Operated in a Strong Normal Dispersion Regime at Low Repetition Rate. IEEE Photonics Technology Letters, 2010, 22, 1401-1403.	2.5	3
38	Composite right/left-handed frequency-scanning antenna based on half mode substrate integrated waveguide. , 2016, , .		2
39	Hyperspectral scanning laser optical tomography. Journal of Biophotonics, 2019, 12, e201800221.	2.3	2
40	Asynchronous and synchronous dual-wavelength pulse generation in a non-zero-dispersion fiber laser. , 2017, , .		2
41	Synchronous dual-wavelength pulse generation in an Er-doped fiber laser with near-zero dispersion. , 2016, , .		2
42	Ytterbium-doped mode-locked fiber laser at hundreds of kHz repetition rate. , 2009, , .		2
43	In situ visualization of combined membrane fouling behaviors using multi-color light sheet fluorescence imaging: A study with BSA and dextran mixture. Journal of Membrane Science, 2022, 649, 120385.	8.2	2
44	Ultra-low repetition rate SESAM-mode-locked linear-cavity erbium-doped fiber laser. , 2009, , .		1
45	Advances in SESAM and carbon nanotube saturable absorber mode locked fiber lasers. , 2009, , .		1
46	Broadband SESAM for mode locked Yb: fiber lasers. Science Bulletin, 2011, 56, 1348-1351.	1.7	1
47	Mode and sensing properties of a silicon-based hybrid plasmonic microring resonator. Journal of Optics (India), 2019, 48, 308-313.	1.7	1
48	Linear polarization rotation in multilayer topological insulator structures. Optics Communications, 2020, 477, 126335.	2.1	1
49	Synchronously coupled fiber lasers and sum frequency generation using graphene composites. , 2014, , .		1
50	A simple and accurate measurement of fiber time delay in free-running linear-cavity laser configuration. , 2009, , .		0
51	Sub-100kHz repetition rate mode-locked dispersion managed erbium-doped fiber laser. , 2009, , .		0
52	Phase shift compensation of high modulation depth multi-layer InGaAs/InAlAs SESAM. , 2009, , .		0
53	381 KHz repetition-rate operation of an ytterbium-doped fiber laser. , 2009, , .		0
54	Simplified cavity for erbium-doped fiber laser mode locked with spectral filtering. , 2009, , .		0

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55	Q-switched Yb-doped fiber laser with WS ₂ saturable absorber. , 2015, , .		0
56	Analyzing the influence of electromagnetic parameters of composite material on antenna operating and coupling degree. , 2016, , .		0
57	Wideband tunable ultrafast fiber laser using blackphosphorus saturable absorber. , 2017, , .		0
58	Observation of tunable dual-wavelength in a fiber laser mode-locked by black phosphorus. , 2017, , .		0
59	A Tunable Optical Filter Based on the Electrowetting Controlled Sagging Effect of a Liquid Droplet on a Superhydrophobic Substrate Embedding a Waveguide Bragg Grating. , 2019, , .		0
60	3D High Resolution Imaging Acquisition in Hologscopy utilizes Compressive Sensing. Procedia Computer Science, 2019, 147, 177-180.	2.0	0
61	Design and Analysis of a Phase Shift Bragg Grating Based on Bloch Surface Wave. Procedia Computer Science, 2019, 147, 136-139.	2.0	0
62	2D Materials for laser applications. , 2020, , 79-103.		0
63	Q-switched pulse generation in Yb- and Er-doped fiber laser with WS ₂ saturable absorber. , 2015, , .		0
64	Observation of continuous evolution of the output state of polarization from a polarization-rotated, mode-locked soliton fiber laser. , 2015, , .		0
65	A Novel Approach for On-Chip Detection of Analyte by Incorporating Structurally Compatible Optical Waveguides with Electrowetting-on-Dielectric Platform. , 2016, , .		0
66	Period-doubling vector soliton generation from a linear cavity mode-locked laser using a faraday rotator mirror. , 2016, , .		0
67	Self-expanding fabricated bubble resonators used as whispering gallery modes sensors. , 2018, , .		0
68	Grating-assisted waveguide coupler for stimulating the WGMs in the low index droplet resonator. , 2019, , .		0
69	A tunable optical filter based on the electrowetting controlled sagging effect of a liquid droplet on a waveguide Bragg grating formed superhydrophobic substrate. , 2019, , .		0