Meng Zhang

List of Publications by Year
in descending order

69	1,954	430874	289244
papers	citations	18 h-index	40 g-index

69	69	69	2467
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reaction heterogeneity in the bridging effect of divalent cations on polysaccharide fouling. Journal of Membrane Science, 2022, 641, 119933.	8.2	48
2	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
3	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
4	Fiber-based all-optical modulation based on two-dimensional materials. 2D Materials, 2021, 8, 012003.	4.4	8
5	2D Materials for laser applications. , 2020, , 79-103.		0
6	A few-layer InSe-based sensitivity-enhanced photothermal fiber sensor. Journal of Materials Chemistry C, 2020, 8, 132-138.	5.5	15
7	Linear polarization rotation in multilayer topological insulator structures. Optics Communications, 2020, 477, 126335.	2.1	1
8	Light sheet fluorescence microscopy applied for in situ membrane fouling characterization: The microscopic events of hydrophilic membrane in resisting DEX fouling. Water Research, 2020, 185, 116240.	11.3	9
9	A general ink formulation of 2D crystals for wafer-scale inkjet printing. Science Advances, 2020, 6, eaba5029.	10.3	89
10	Anisotropic Plasmonic Nanostructure Induced Polarization Photoresponse for MoS₂â€Based Photodetector. Advanced Materials Interfaces, 2020, 7, 1902179.	3.7	41
11	Environmentally stable black phosphorus saturable absorber for ultrafast laser. Nanophotonics, 2020, 9, 2445-2449.	6.0	21
12	Antifouling mechanism of the additive-free Î²-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
13	Wideband saturable absorption in metalâ€“organic frameworks (MOFs) for mode-locking Er- and Tm-doped fiber lasers. Nanoscale, 2020, 12, 4586-4590.	5.6	36
14	Allâ€Optical Control of Microfiber Knot Resonator Based on 2D Ti₂CT_x MXene. Advanced Optical Materials, 2020, 8, 1900977.	7.3	39
15	Broad bandwidth dual-wavelength fiber laser simultaneously delivering stretched pulse and dissipative soliton. Optics Express, 2020, 28, 6937.	3.4	17
16	Sub-150 fs dispersion-managed soliton generation from an all-fiber Tm-doped laser with BP-SA. Optics Express, 2020, 28, 34104.	3.4	12
17	MXene-based high-performance all-optical modulators for actively Q-switched pulse generation. Photonics Research, 2020, 8, 1140.	7.0	30
18	2D Xenes: from fundamentals to applications. Nanophotonics, 2020, 9, 1555-1556.	6.0	4

#	Article	IF	Citations
19	Two-dimensional material as a saturable absorber for mid-infrared ultrafast fiber laser. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 188101.	0.5	4
20	Meridian whispering gallery modes sensing in a sessile microdroplet on micro/nanostructured superhydrophobic chip surfaces. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	9
21	A Tunable Optical Bragg Grating Filter Based on the Droplet Sagging Effect on a Superhydrophobic Nanopillar Array. Sensors, 2019, 19, 3324.	3.8	8
22	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
23	Mode and sensing properties of a silicon-based hybrid plasmonic microring resonator. Journal of Optics (India), 2019, 48, 308-313.	1.7	1
24	3D High Resolution Imaging Acquisition in Holoscopy utilizes Compressive Sensing. Procedia Computer Science, 2019, 147, 177-180.	2.0	0
25	Design and Analysis of a Phase Shift Bragg Grating Based on Bloch Surface Wave. Procedia Computer Science, 2019, 147, 136-139.	2.0	0
26	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
27	MXene Ti₃C₂T_x: A Promising Photothermal Conversion Material and Application in Allâ€Optical Modulation and Allâ€Optical Information Loading. Advanced Optical Materials, 2019, 7, 1900060.	7.3	115
28	2D Black Phosphorus Saturable Absorbers for Ultrafast Photonics. Advanced Optical Materials, 2019, 7, 1800224.	7.3	235
29	Hyperspectral scanning laser optical tomography. Journal of Biophotonics, 2019, 12, e201800221.	2.3	2
30	MZIâ€Based Allâ€Optical Modulator Using MXene Ti₃C₂T_x (T =) Tj ETQq0 0 0 rgBT /Overl	5.8	87
31	Spontaneous emission interference in topological insulator multilayers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1890.	2.1	8
32	Grating-assisted waveguide coupler for stimulating the WGMs in the low index droplet resonator. , 2019, , .		0
33	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
34	All-Optical Transparent Forwarding Relay System for Interstellar Optical Communication Networks. IEEE Journal of Quantum Electronics, 2018, 54, 1-7.	1.9	8
35	High-Q BSW-whispering gallery modes in periodic multi-layer microring resonator. Optics Communications, 2018, 410, 479-482.	2.1	5
36	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

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37	Self-expanding fabricated bubble resonators used as whispering gallery modes sensors. , 2018, , .		0
38	Black Phosphorus Based All-Optical-Signal-Processing: Toward High Performances and Enhanced Stability. ACS Photonics, 2017, 4, 1466-1476.	6.6	173
39	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. Nature Communications, 2017, 8, 278.	12.8	311
40	High quality factor multi-layer symmetric hybrid plasmonic microresonator for sensing applications. Optics Communications, 2017, 403, 68-72.	2.1	7
41	Wideband tunable ultrafast fiber laser using blackphosphorus saturable absorber. , 2017, , .		0
42	Observation of tunable dual-wavelength in a fiber laser mode-locked by black phosphorus. , 2017, , .		0
43	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
44	Asynchronous and synchronous dual-wavelength pulse generation in a non-zero-dispersion fiber laser. , 2017, , .		2
45	Composite right/left-handed frequency-scanning antenna based on half mode substrate integrated waveguide. , 2016, , .		2
46	Analyzing the influence of electromagnetic parameters of composite material on antenna operating and coupling degree. , 2016, , .		0
47	Hybrid plasmonic microcavity with an air-filled gap for sensing applications. Optics Communications, 2016, 380, 6-9.	2.1	14
48	Synchronous dual-wavelength pulse generation in an Er-doped fiber laser with near-zero dispersion. , 2016, , .		2
49	A Novel Approach for On-Chip Detection of Analyte by Incorporating Structurally Compatible Optical Waveguides with Electrowetting-on-Dielectric Platform. , 2016, , .		0
50	Period-doubling vector soliton generation from a linear cavity mode-locked laser using a faraday rotator mirror. , 2016, , .		0
51	Q-switched Yb-doped fiber laser with WS<inf>2</inf> saturable absorber. , 2015, , .		0
52	Solution processed MoS2-PVA composite for sub-bandgap mode-locking of a wideband tunable ultrafast Er:fiber laser. Nano Research, 2015, 8, 1522-1534.	10.4	256
53	Multiwavelength, subpicosecond pulse generation from a SWNT-SA mode-locked ring birefringent fiber laser. , 2015, , .		6
54	Silicon hybrid plasmonic microring resonator for sensing applications. Applied Optics, 2015, 54, 7131.	2.1	18

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55	Q-switched pulse generation in Yb- and Er-doped fiber laser with WS2 saturable absorber. , 2015, , .		0
56	Observation of continuous evolution of the output state of polarization from a polarizationâ€“rotated, mode-locked soliton fiber laser. , 2015, , .		0
57	Synchronously coupled fiber lasers and sum frequency generation using graphene composites. , 2014, , .		1
58	Low-cost precise measurement of oscillator frequency instability based on GNSS carrier observation. Advances in Space Research, 2013, 51, 969-977.	2.6	20
59	Broadband SESAM for mode locked Yb:fiber lasers. Science Bulletin, 2011, 56, 1348-1351.	1.7	1
60	Group delay dispersion compensation in an Ytterbium-doped fiber laser using intracavity Giresâ€“Tournois interferometers. Optics and Laser Technology, 2010, 42, 1077-1079.	4.6	8
61	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
62	A simple and accurate measurement of fiber time delay in free-running linear-cavity laser configuration. , 2009, , .		0
63	Ultra-low repetition rate SESAM-mode-locked linear-cavity erbium-doped fiber laser. , 2009, , .		1
64	Sub-100khz repetition rate mode-locked dispersion managed erbium-doped fiber laser. , 2009, , .		0
65	Phase shift compensation of high modulation depth multi-layer InGaAs/InAlAs SESAM. , 2009, , .		0
66	Advances in SESAM and carbon nanotube saturable absorber mode locked fiber lasers. , 2009, , .		1
67	381 KHz repetition-rate operation of an ytterbium-doped fiber laser. , 2009, , .		0
68	Simplified cavity for erbium-doped fiber laser mode locked with spectral filtering. , 2009, , .		0
69	Ytterbium-doped mode-locked fiber laser at hundreds of kHz repetition rate. , 2009, , .		2