Meng Zhang

List of Publications by Year in Descending Order

52 papers	1,537 citations	14 h-index	39 g-index
69 ext. papers	1,895 ext. citations	5.6 avg, IF	4.81 L-index

#	Paper	IF	Citations
52	Four-wave mixing in graphdiyne-microfiber based on synchronized dual-wavelength pulses. *Photonics Research*, **2022**, 10, 503	6	0
51	Tapered-open-cavity-based in-line Mach-Zehnder interferometer for highly sensitive axial-strain measurement.. *Optics Express*, **2022**, 30, 6341-6354	3.3	2
50	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	9.6	1
49	Enhanced permeate flux by air micro-nano bubbles via reducing apparent viscosity during ultrafiltration process.. *Chemosphere*, **2022**, 134782	8.4	0
48	Microfluidic paper-based chip for parathion-methyl detection based on a double catalytic amplification strategy. *Mikrochimica Acta*, **2021**, 188, 438	5.8	3
47	Fiber-based all-optical modulation based on two-dimensional materials. *2D Materials*, **2021**, 8, 012003	5.9	3
46	Signal processing assisted Vernier effect in a single interferometer for sensitivity magnification. *Optics Express*, **2021**, 29, 11570-11581	3.3	11
45	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	10
44	Numerical analysis of low-RI WGM resonators excited by a periodically arranged multilayer dielectric planar waveguide. *Optics Communications*, **2021**, 501, 127343	2	
43	Anisotropic Plasmonic Nanostructure Induced Polarization Photoresponse for MoS2-Based Photodetector. *Advanced Materials Interfaces*, **2020**, 7, 1902179	4.6	22
42	Environmentally stable black phosphorus saturable absorber for ultrafast laser. *Nanophotonics*, **2020**, 9, 2445-2449	6.3	10
41	Antifouling mechanism of the additive-free ⊟PVDF membrane in water purification process: Relating the surface electron donor monopolarity to membrane-foulant interactions. *Journal of Membrane Science*, **2020**, 601, 117873	9.6	10
40	Wideband saturable absorption in metal-organic frameworks (MOFs) for mode-locking Er- and Tm-doped fiber lasers. *Nanoscale*, **2020**, 12, 4586-4590	7.7	18
39	All-Optical Control of Microfiber Knot Resonator Based on 2D Ti2CTx MXene. *Advanced Optical Materials*, **2020**, 8, 1900977	8.1	20
38	Broad bandwidth dual-wavelength fiber laser simultaneously delivering stretched pulse and dissipative soliton. *Optics Express*, **2020**, 28, 6937-6944	3.3	9
37	Sub-150 fs dispersion-managed soliton generation from an all-fiber Tm-doped laser with BP-SA. *Optics Express*, **2020**, 28, 34104-34110	3.3	6
36	MXene-based high-performance all-optical modulators for actively Q-switched pulse generation. *Photonics Research*, **2020**, 8, 1140	6	11

35	2D Xenes: from fundamentals to applications. *Nanophotonics*, **2020**, 9, 1555-1556	6.3	1
34	Two-dimensional material as a saturable absorber for mid-infrared ultrafast fiber laser. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 188101	0.6	3
33	2D Materials for laser applications **2020**, 79-103		
32	A few-layer InSe-based sensitivity-enhanced photothermal fiber sensor. *Journal of Materials Chemistry C*, **2020**, 8, 132-138	7.1	7
31	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	12.5	3
30	A general ink formulation of 2D crystals for wafer-scale inkjet printing. *Science Advances*, **2020**, 6, eaba5029	14.3	43
29	Mode and sensing properties of a silicon-based hybrid plasmonic microring resonator. *Journal of Optics (India)*, **2019**, 48, 308-313	1.3	
28	A bismuthene-based multifunctional all-optical phase and intensity modulator enabled by photothermal effect. *Journal of Materials Chemistry C*, **2019**, 7, 871-878	7.1	52
27	MXene Ti3C2Tx: A Promising Photothermal Conversion Material and Application in All-Optical Modulation and All-Optical Information Loading. *Advanced Optical Materials*, **2019**, 7, 1900060	8.1	75
26	Meridian whispering gallery modes sensing in a sessile microdroplet on micro/nanostructured superhydrophobic chip surfaces. *Microfluidics and Nanofluidics*, **2019**, 23, 1	2.8	6
25	A Tunable Optical Bragg Grating Filter Based on the Droplet Sagging Effect on a Superhydrophobic Nanopillar Array. *Sensors*, **2019**, 19,	3.8	4
24	2D Black Phosphorus Saturable Absorbers for Ultrafast Photonics. *Advanced Optical Materials*, **2019**, 7, 1800224	8.1	172
23	Hyperspectral scanning laser optical tomography. *Journal of Biophotonics*, **2019**, 12, e201800221	3.1	2
22	MZI-Based All-Optical Modulator Using MXene Ti3C2Tx (T = F, O, or OH) Deposited Microfiber. *Advanced Materials Technologies*, **2019**, 4, 1800532	6.8	69
21	102 fs pulse generation from a long-term stable, inkjet-printed black phosphorus-mode-locked fiber laser. *Optics Express*, **2018**, 26, 12506-12513	3.3	70
20	High-Q BSW-whispering gallery modes in periodic multi-layer microring resonator. *Optics Communications*, **2018**, 410, 479-482	2	2
19	Spatial-Modulation-Based Wireless-Powered Communication for Achievable Rate Enhancement. *IEEE Communications Letters*, **2017**, 21, 1365-1368	3.8	13
18	Black Phosphorus Based All-Optical-Signal-Processing: Toward High Performances and Enhanced Stability. *ACS Photonics*, **2017**, 4, 1466-1476	6.3	152

17	Multiple-Mode Orthogonal Frequency Division Multiplexing With Index Modulation. *IEEE Transactions on Communications*, **2017**, 65, 3892-3906	6.9	177
16	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. *Nature Communications*, **2017**, 8, 278	17.4	225
15	High quality factor multi-layer symmetric hybrid plasmonic microresonator for sensing applications. *Optics Communications*, **2017**, 403, 68-72	2	6
14	Hybrid plasmonic microcavity with an air-filled gap for sensing applications. *Optics Communications*, **2016**, 380, 6-9	2	14
13	Quadrature index modulated OFDM with interleaved grouping for V2X communications **2016**,		3
12	Spatial modulation orthogonal frequency division multiplexing with subcarrier index modulation for V2X communications **2016**,		7
11	A Dual-Hop Virtual MIMO Architecture Based on Hybrid Differential Spatial Modulation. *IEEE Transactions on Wireless Communications*, **2016**, 15, 6356-6370	9.6	34
10	Differential spatial modulation for dual-hop amplify-and-forward relaying **2015**,		6
9	Silicon hybrid plasmonic microring resonator for sensing applications. *Applied Optics*, **2015**, 54, 7131-4	0.2	13
8	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	210
7	Pre-Coding Aided Differential Spatial Modulation **2015**,		13
6	Multiwavelength, subpicosecond pulse generation from a SWNT-SA mode-locked ring birefringent fiber laser **2015**,		4
5	Simplified calculation on the time performance of high efficiency frame generation algorithm in Advanced Orbiting Systems **2013**,		1
4	Broadband SESAM for mode locked Yb:fiber lasers. *Science Bulletin*, **2011**, 56, 1348-1351		
3	Chinese Semantic Role Labeling with Hierarchical Semantic Knowledge **2010**,		1
2	Erbium-Doped Fiber Lasers Operated in a Strong Normal Dispersion Regime at Low Repetition Rate. *IEEE Photonics Technology Letters*, **2010**, 22, 1401-1403	2.2	3
1	Ultra-low repetition rate all-normal-dispersion linear-cavity mode-locked fiber lasers **2009**,		1