Jin-hui Chen

List of Publications by Year
in descending order

40	1,222	304743 22	361022 35
papers	citations	h-index	g-index

41	41	41	1361
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An all-optical modulator based on a stereo grapheneâ€“microfiber structure. Light: Science and Applications, 2015, 4, e360-e360.	16.6	124
2	Sensitive and Wearable Optical Microfiber Sensor for Human Health Monitoring. Advanced Materials Technologies, 2018, 3, 1800296.	5.8	78
3	Silica optical fiber integrated with two-dimensional materials: towards opto-electro-mechanical technology. Light: Science and Applications, 2021, 10, 78.	16.6	62
4	Optical Microfiber Sensors: Sensing Mechanisms, and Recent Advances. Journal of Lightwave Technology, 2019, 37, 2577-2589.	4.6	60
5	Microcavity Nonlinear Optics with an Organically Functionalized Surface. Physical Review Letters, 2019, 123, 173902.	7.8	57
6	Surface Plasmonic Sensors: Sensing Mechanism and Recent Applications. Sensors, 2021, 21, 5262.	3.8	54
7	Broadband Opticalâ€Fiberâ€Compatible Photodetector Based on a Grapheneâ€MoS₂â€WS₂ Heterostructure with a Synergetic Photogenerating Mechanism. Advanced Electronic Materials, 2019, 5, 1800562.	5.1	53
8	Nonlinear frequency conversion of fields with orbital angular momentum using quasi-phase-matching. Physical Review A, 2013, 88, .	2.5	51
9	Tunable and enhanced light emission in hybrid WS2-optical-fiber-nanowire structures. Light: Science and Applications, 2019, 8, 8.	16.6	51
10	An Ultrahighâ€Power Mesocarbon Microbeads|Na⁺â€Diglyme|Na₃V₂(PO₄)₃ Sodiumâ€Ion Battery. Advanced Materials, 2022, 34, e2108304.	21.0	50
11	Tunable Fano resonance in hybrid graphene-metal gratings. Applied Physics Letters, 2014, 104, .	3.3	49
12	Optical electrical current sensor utilizing a graphene-microfiber-integrated coil resonator. Applied Physics Letters, 2015, 107, .	3.3	49
13	High-sensitivity optical-fiber-compatible photodetector with an integrated CsPbBr_3â€“graphene hybrid structure. Optica, 2017, 4, 835.	9.3	48
14	Operando monitoring transition dynamics of responsive polymer using optofluidic microcavities. Light: Science and Applications, 2021, 10, 128.	16.6	40
15	Microfiber-coupler-assisted control of wavelength tuning for Q-switched fiber laser with few-layer molybdenum disulfide nanoplates. Optics Letters, 2015, 40, 3576.	3.3	37
16	Platform for enhanced lightâ€“graphene interaction length and miniaturizing fiber stereo devices. Optica, 2014, 1, 307.	9.3	36
17	Miniature optical fiber current sensor based on a graphene membrane. Laser and Photonics Reviews, 2015, 9, 517-522.	8.7	34
18	Real-time monitoring of hydrogel phase transition in an ultrahigh Q microbubble resonator. Photonics Research, 2020, 8, 497.	7.0	34

#	Article	IF	Citations
19	1/f-noise-free optical sensing with an integrated heterodyne interferometer. Nature Communications, 2021, 12, 1973.	12.8	33
20	Twisted black phosphorusâ€“based van der Waals stacks for fiber-integrated polarimeters. Science Advances, 2022, 8, eabo0375.	10.3	30
21	Ethanol Gas Sensor Based on a Hybrid Polymethyl Methacrylateâ€“Silica Microfiber Coupler. Journal of Lightwave Technology, 2018, 36, 2031-2036.	4.6	26
22	Towards an all-in fiber photodetector by directly bonding few-layer molybdenum disulfide to a fiber facet. Nanoscale, 2017, 9, 3424-3428.	5.6	22
23	Hollow core micro-fiber for optical wave guiding and microfluidic manipulation. Sensors and Actuators B: Chemical, 2018, 262, 953-957.	7.8	19
24	Packaged Microbubble Resonator for Versatile Optical Sensing. Journal of Lightwave Technology, 2020, 38, 4555-4559.	4.6	17
25	Multifunctional optical nanofiber polarization devices with 3D geometry. Optics Express, 2014, 22, 17890.	3.4	16
26	Mechanical Modulation of a Hybrid Grapheneâ€“Microfiber Structure. Advanced Optical Materials, 2016, 4, 853-857.	7.3	16
27	Versatile hybrid plasmonic microfiber knot resonator. Optics Letters, 2017, 42, 3395.	3.3	15
28	Periodic micro-structures in optical microfibers induced by Plateau-Rayleigh instability and its applications. Optics Express, 2017, 25, 4326.	3.4	14
29	Manipulation of Nonlinear Optical Properties of Graphene Bonded Fiber Devices by Thermally Engineering Fermiâ€“Dirac Distribution. Advanced Optical Materials, 2017, 5, 1700630.	7.3	9
30	Ultra-compact reconfigurable device for mode conversion and dual-mode DPSK demodulation via inverse design. Optics Express, 2021, 29, 17718.	3.4	9
31	Deep Learning for Photonic Design and Analysis: Principles and Applications. Frontiers in Materials, 2022, 8, .	2.4	8
32	Quasi-Phase-Matching Method Based on Coupling Compensation for Surface Second-Harmonic Generation in Optical Fiber Nanowire Coupler. ACS Photonics, 2018, 5, 3916-3922.	6.6	5
33	Demonstration of a microelectromechanical tunable Fabryâ€“PÃ©rot cavity based on graphene-bonded fiber devices. Optics Letters, 2019, 44, 1876.	3.3	4
34	A Fiber Laser Using Graphene-Integrated 3-D Microfiber Coil. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	3
35	Heterostructures: Broadband Optical-Fiber-Compatible Photodetector Based on a Graphene-MoS2 -WS2 Heterostructure with a Synergetic Photogenerating Mechanism (Adv. Electron. Mater. 1/2019). Advanced Electronic Materials, 2019, 5, 1970005.	5.1	3
36	Microcavity Sensor Enhanced by Spontaneous Chiral Symmetry Breaking. Physical Review Applied, 2021, 16, .	3.8	3

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37	Total transmission from deep learning designs. Journal of Electronic Science and Technology, 2021, 20, 100146.	3.6	3
38	Miniaturized stereo fiber devices based on the wrapon-a-rod technology. , 2015, , .		0
39	A Graphene-Integrated 3D Microfiber Coil For All-Optical Signal Processing. , 2015, , .		0
40	Single Nanowire Integrated Microfiber Devices. Results in Optics, 2021, , 100199.	2.0	0