

# Lili Miao

## List of Publications by Year in descending order

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57  
papers

1,882  
citations

279487

23  
h-index

253896

43  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017, 4, 997-1019.	6.4	296
2	Broadband and enhanced nonlinear optical response of MoS <sub>2</sub> /graphene nanocomposites for ultrafast photonics applications. <i>Scientific Reports</i> , 2015, 5, 16372.	1.6	174
3	Wide spectral and wavelength-tunable dissipative soliton fiber laser with topological insulator nano-sheets self-assembly films sandwiched by PMMA polymer. <i>Optics Express</i> , 2015, 23, 7681.	1.7	108
4	Highly stable femtosecond pulse generation from a MXene Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (T = F, O, or OH) mode-locked fiber laser. <i>Photonics Research</i> , 2019, 7, 260.	3.4	93
5	Broadband ultrafast nonlinear optical response of few-layers graphene: toward the mid-infrared regime. <i>Photonics Research</i> , 2015, 3, 214.	3.4	90
6	Few-layer Topological Insulator for All-Optical Signal Processing Using the Nonlinear Kerr Effect. <i>Advanced Optical Materials</i> , 2015, 3, 1769-1778.	3.6	87
7	Unleashing the potential of Ti <sub>2</sub> CT <sub>x</sub> MXene as a pulse modulator for mid-infrared fiber lasers. <i>2D Materials</i> , 2019, 6, 045038.	2.0	83
8	Broadband ultrafast spatial self-phase modulation for topological insulator Bi <sub>2</sub> Te <sub>3</sub> dispersions. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	82
9	Tunable Schottky barrier width and enormously enhanced photoresponsivity in Sb doped SnS <sub>2</sub> monolayer. <i>Nano Research</i> , 2019, 12, 463-468.	5.8	71
10	2.8- $\mu\text{m}$ Pulsed Er <sup>3+</sup> :ZBLAN Fiber Laser Modulated by Topological Insulator. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1573-1576.	1.3	65
11	Third-order nonlinear optical response of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite in the mid-infrared regime. <i>Optical Materials Express</i> , 2017, 7, 3894.	1.6	62
12	Broadband third order nonlinear optical responses of bismuth telluride nanosheets. <i>Optical Materials Express</i> , 2016, 6, 2244.	1.6	52
13	Ti <sub>2</sub> CT <sub>x</sub> MXene-based all-optical modulator. <i>Informa-Ån-Å-Materi-Åly</i> , 2020, 2, 601-609.	8.5	39
14	Few-layer rhenium diselenide: an ambient-stable nonlinear optical modulator. <i>Optical Materials Express</i> , 2018, 8, 926.	1.6	38
15	Bilayer Bismuth Selenide nanoplatelets based saturable absorber for ultra-short pulse generation (Invited). <i>Optics Communications</i> , 2017, 395, 55-60.	1.0	35
16	Ultrafast pulse generation from erbium-doped fiber laser modulated by hybrid organic-inorganic halide perovskites. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	35
17	High-performance asymmetric electrodes photodiode based on Sb/WSe <sub>2</sub> heterostructure. <i>Nano Research</i> , 2019, 12, 339-344.	5.8	32
18	Two-dimensional plumbum-doped tin diselenide monolayer transistor with high on/off ratio. <i>Nanotechnology</i> , 2018, 29, 474002.	1.3	30

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19	Broadband spatial self-phase modulation and ultrafast response of MXene $\text{Ti}_3\text{C}_2\text{T}_x$ (T=O, OH or F). <i>Nanophotonics</i> , 2020, 9, 2415-2424.	2.9	28
20	Bulk-structured $\text{PtSe}_2$ for femtosecond fiber laser mode-locking. <i>Optics Express</i> , 2019, 27, 2604.	1.7	27
21	Ultrafast nonlinear optical response in solution dispersions of black phosphorus. <i>Scientific Reports</i> , 2017, 7, 3352.	1.6	24
22	Erbium-Doped Fiber Laser Mode-Locked by Halide Perovskite via Evanescent Field Interaction. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 577-580.	1.3	23
23	Gold nanostars as a Q-switcher for the mid-infrared erbium-doped fluoride fiber laser. <i>Optics Letters</i> , 2018, 43, 5459.	1.7	23
24	Nonlinear Optical Response in Natural van der Waals Heterostructures. <i>Advanced Optical Materials</i> , 2020, 8, 2000382.	3.6	22
25	Passively Q-switched vectorial fiber laser modulated by hybrid organic-inorganic perovskites. <i>Optical Materials Express</i> , 2017, 7, 1220.	1.6	20
26	Broadband Nonlinear Optical Response of Single-Crystalline Bismuth Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35863-35870.	4.0	19
27	Broadband mid-infrared nonlinear optical modulator enabled by gold nanorods: towards the mid-infrared regime. <i>Photonics Research</i> , 2019, 7, 699.	3.4	19
28	Enhancing the saturable absorption and carrier dynamics of graphene with plasmonic nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2159-2166.	0.7	17
29	Graphene Q-Switched Vectorial Fiber Laser With Switchable Polarized Output. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 26-32.	1.9	16
30	Bismuth Telluride nanocrystal: broadband nonlinear response and its application in ultrafast photonics. <i>Scientific Reports</i> , 2018, 8, 2355.	1.6	16
31	Robust hybrid mode-locking operation with bulk-like transition metal pentatellurides. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6445-6451.	2.7	13
32	Highly stable soliton and bound soliton generation from a fiber laser mode-locked by $\text{VSe}_2$ nanosheets. <i>Optics Express</i> , 2022, 30, 6838.	1.7	13
33	Tunable Gold Nanorods Q-Switcher for Pulsed Er-Doped Fiber Laser. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	12
34	Understanding the enhancement of responsivity in perovskite/organic semiconductor bilayer-structured photodetectors. <i>Organic Electronics</i> , 2019, 75, 105372.	1.4	12
35	Broadband optical response of layered nickel ditelluride towards the mid-infrared regime. <i>Optical Materials Express</i> , 2020, 10, 1335.	1.6	11
36	Passive photonic diodes based on natural van der Waals heterostructures. <i>Nanophotonics</i> , 2020, 10, 927-935.	2.9	11

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37	Drop-Casted Self-Assembled Topological Insulator Membrane as an Effective Saturable Absorber for Ultrafast Laser Photonics. IEEE Photonics Journal, 2015, 7, 1-11.	1.0	9
38	Antimony Thin Film as a Robust Broadband Saturable Absorber. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	1.9	9
39	Modeling the Broadband Mid-Infrared Dispersion Compensator Based on ZBLAN Microfiber. IEEE Photonics Technology Letters, 2016, 28, 728-731.	1.3	7
40	Broadband nonlinear optical modulator enabled by VO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> core-shell heterostructures. Nanophotonics, 2022, 11, 2931-2938.	2.9	7
41	Femtosecond Z-scan measurement of third-order nonlinear optical response of fluorine-doped tin oxide. Applied Physics Express, 2022, 15, 061004.	1.1	6
42	Duration Switchable High-Energy Passively Mode-Locked Raman Fiber Laser Based on Nonlinear Polarization Evolution. IEEE Photonics Journal, 2015, 7, 1-7.	1.0	5
43	Enhancement of Optical Nonlinearity in the Triangular Gold Nanoplates on Indium Tin Oxide. IEEE Photonics Journal, 2021, 13, 1-8.	1.0	5
44	Layered Ta <sub>2</sub> NiS <sub>5</sub> Q-Switcher for Mid-Infrared Fluoride Fiber Laser. IEEE Photonics Journal, 2021, 13, 1-4.	1.0	5
45	Stable Dissipative Soliton Generation From Yb-Doped Fiber Laser Modulated via Evanescent Field Interaction With Gold Nanorods. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	4
46	Self-Defocusing of Light in Ethanol Around 1550 nm. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	4
47	Watt-level superfluorescent fiber source near 3 $\mu$ m. Optics Letters, 2021, 46, 2778.	1.7	4
48	Robust nanosecond laser passively Q-switched by tin selenide nanoflowers. Optics Express, 2021, 29, 41388.	1.7	4
49	All-Optical Signal Processing: Few-Layer Topological Insulator for All-Optical Signal Processing Using the Nonlinear Kerr Effect (Advanced Optical Materials 12/2015). Advanced Optical Materials, 2015, 3, 1768-1768.	3.6	3
50	Nanosecond mid-infrared pulse generation modulated by platinum ditelluride nanosheets. Laser Physics Letters, 2022, 19, 075107.	0.6	3
51	Tailoring the dispersion behavior of optical nanowires with intercore-cladding lithium niobate thin film. Optics Express, 2015, 23, 27085.	1.7	2
52	Third-order nonlinear optical response of Yb:YAG ceramics under femtosecond laser irradiation. Optical Materials, 2019, 98, 109435.	1.7	2
53	Nonlinear optical responses of erbium-doped YAG ceramics. Optical Materials, 2016, 57, 231-235.	1.7	1
54	Propagation Characteristics of Anisotropic <i>a</i> -Axis Hollow Lithium Niobate Nanowire. Journal of Lightwave Technology, 2016, 34, 4028-4035.	2.7	1

#	ARTICLE	IF	CITATIONS
55	Dual-Wavelength Nanosecond Nd:YVO4 Laser With Switchable Inhomogeneous Polarization Output. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-5.	1.9	1
56	Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. IEEE Photonics Journal, 2020, 12, 1-7.	1.0	1
57	Modelling the broadband mid-infrared dispersion compensator with hybrid silicon and lithium niobate nanowire. OSA Continuum, 2018, 1, 736.	1.8	0