Shunbin Lu

List of Publications by Year
in descending order

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40 papers	5,700 citations	331670 21 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	5104 citing authors

#	Article	IF	Citations
1	Molybdenum disulfide (MoS_2) as a broadband saturable absorber for ultra-fast photonics. Optics Express, 2014, 22, 7249.	3.4	1,008
2	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. Advanced Functional Materials, 2015, 25, 6996-7002.	14.9	862
3	Broadband nonlinear optical response in multi-layer black phosphorus: an emerging infrared and mid-infrared optical material. Optics Express, 2015, 23, 11183.	3.4	628
4	Wavelength-tunable picosecond soliton fiber laser with Topological Insulator: Bi_2Se_3 as a mode locker. Optics Express, 2012, 20, 27888.	3.4	406
5	Sensitivity enhancement by using few-layer black phosphorus-graphene/TMDCs heterostructure in surface plasmon resonance biochemical sensor. Sensors and Actuators B: Chemical, 2017, 249, 542-548.	7.8	322
6	Third order nonlinear optical property of Bi_2Se_3. Optics Express, 2013, 21, 2072.	3.4	271
7	Broadband Nonlinear Optical Response in Fewâ€Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability. Advanced Optical Materials, 2017, 5, 1700301.	7.3	269
8	Few-layer antimonene decorated microfiber: ultra-short pulse generation and all-optical thresholding with enhanced long term stability. 2D Materials, 2017, 4, 045010.	4.4	260
9	Microwave and optical saturable absorption in graphene. Optics Express, 2012, 20, 23201.	3.4	220
10	Few-layer black phosphorus based saturable absorber mirror for pulsed solid-state lasers. Optics Express, 2015, 23, 22643.	3.4	220
11	Fewâ€Layer Tin Sulfide: A Promising Blackâ€Phosphorusâ€Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in Allâ€Optical Switching and Wavelength Conversion. Advanced Optical Materials, 2018, 6, 1700985.	7.3	212
12	Broadband optical and microwave nonlinear response in topological insulator. Optical Materials Express, 2014, 4, 587.	3.0	206
13	Self-Assembled Topological Insulator: Bi$_{2}$Se$_{3}$ Membrane as a Passive Q-Switcher in an Erbium-Doped Fiber Laser. Journal of Lightwave Technology, 2013, 31, 2857-2863.	4.6	147
14	MXeneâ€Based Nonlinear Optical Information Converter for Allâ€Optical Modulator and Switcher. Laser and Photonics Reviews, 2018, 12, 1800215.	8.7	117
15	Broadband ultrafast nonlinear optical response of few-layers graphene: toward the mid-infrared regime. Photonics Research, 2015, 3, 214.	7.0	90
16	Ultrafast nonlinear absorption and nonlinear refraction in few-layer oxidized black phosphorus. Photonics Research, 2016, 4, 286.	7.0	61
17	Improved Transfer Quality of CVD-Grown Graphene by Ultrasonic Processing of Target Substrates: Applications for Ultra-fast Laser Photonics. ACS Applied Materials & Interfaces, 2013, 5, 10288-10293.	8.0	57
18	Broadband third order nonlinear optical responses of bismuth telluride nanosheets. Optical Materials Express, 2016, 6, 2244.	3.0	52

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19	Tunable terahertz/infrared coherent perfect absorption in a monolayer black phosphorus. Optics Express, 2018, 26, 5488.	3.4	44
20	Spatial self-phase modulation and all-optical switching of graphene oxide dispersions. Journal of Alloys and Compounds, 2019, 771, 900-904.	5.5	35
21	Perovskites: Multiphoton Absorption and Applications. Advanced Optical Materials, 2021, 9, 2100292.	7.3	25
22	Pulse duration dependent nonlinear optical response in black phosphorus dispersions. Optics Communications, 2018, 406, 244-248.	2.1	24
23	Two-photon absorption arises from two-dimensional excitons. Optics Express, 2018, 26, 16093.	3.4	22
24	Broadband nonlinear optical response in GeSe nanoplates and its applications in all-optical diode. Nanophotonics, 2020, 9, 2007-2015.	6.0	20
25	Two-Photon Absorption and Fluorescence in Micrometer-Sized Single Crystals of a Rhodamine B Coordinated Metalâ€“Organic Framework. ACS Applied Nano Materials, 2018, 1, 5408-5413.	5.0	19
26	Z-scan measurement of the nonlinear refractive index of Nd^3+, Y^3+-codoped CaF_2 and SrF_2 crystals. Applied Optics, 2015, 54, 953.	1.8	18
27	Enhancing the saturable absorption and carrier dynamics of graphene with plasmonic nanowires. Physica Status Solidi (B): Basic Research, 2015, 252, 2159-2166.	1.5	17
28	Layered Hybrid Perovskites for Highly Efficient Threeâ€Photon Absorbers: Theory and Experimental Observation. Advanced Science, 2019, 6, 1801626.	11.2	15
29	2D MXene: MXeneâ€Based Nonlinear Optical Information Converter for Allâ€Optical Modulator and Switcher (Laser Photonics Rev. 12(12)/2018). Laser and Photonics Reviews, 2018, 12, 1870055.	8.7	9
30	Wavelength-tunable picosecond soliton fiber laser with Topological Insulator: Bi_2Se_3 as a mode locker: erratum. Optics Express, 2013, 21, 444.	3.4	7
31	Graphdiyne-deposited microfiber structure all-optical modulator at the telecommunication band. Optics Express, 2021, 29, 38915.	3.4	7
32	Phosphorene: From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics (Adv. Funct. Mater. 45/2015). Advanced Functional Materials, 2015, 25, 7100-7100.	14.9	6
33	Saturable absorption in graphene at 800-nm band. Proceedings of SPIE, 2012, , .	0.8	5
34	Scalable Production of Boron Quantum Dots for Broadband Ultrafast Nonlinear Optical Performance. Nanomaterials, 2021, 11, 687.	4.1	5
35	Superior optical Kerr effects induced by two-dimensional excitons. Photonics Research, 0, , .	7.0	5
36	Quantum Dots: Broadband Nonlinear Optical Response in Fewâ€Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.4	4

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37	Third-order nonlinear optical response of Yb:YAG ceramics under femtosecond laser irradiation. Optical Materials, 2019, 98, 109435.	3.6	2
38	Response to â€œComment on â€˜Ultra-short pulse generation by a topological insulator based saturable absorberâ€™â€•[Appl. Phys. Lett. 103, 106101 (2013)]. Applied Physics Letters, 2013, 103, 106102.	3.3	1
39	Graphdiyne-Coated Microfiber All-Optical Temporal Modulator Based on Saturable Absorption. Frontiers in Physics, 2022, 10, .	2.1	1
40	Optical generation of high-power 0.1-THz continuous wave by external modulation. Chinese Optics Letters, 2012, 10, 100605-100607.	2.9	0