

Shunbin Lu

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

5,700
citations

331670

21
h-index

315739

38
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41
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41
docs citations

41
times ranked

5104
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphdiyne-Coated Microfiber All-Optical Temporal Modulator Based on Saturable Absorption. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	1
2	Scalable Production of Boron Quantum Dots for Broadband Ultrafast Nonlinear Optical Performance. <i>Nanomaterials</i> , 2021, 11, 687.	4.1	5
3	Perovskites: Multiphoton Absorption and Applications. <i>Advanced Optical Materials</i> , 2021, 9, 2100292.	7.3	25
4	Graphdiyne-deposited microfiber structure all-optical modulator at the telecommunication band. <i>Optics Express</i> , 2021, 29, 38915.	3.4	7
5	Broadband nonlinear optical response in GeSe nanoplates and its applications in all-optical diode. <i>Nanophotonics</i> , 2020, 9, 2007-2015.	6.0	20
6	Third-order nonlinear optical response of Yb:YAG ceramics under femtosecond laser irradiation. <i>Optical Materials</i> , 2019, 98, 109435.	3.6	2
7	Spatial self-phase modulation and all-optical switching of graphene oxide dispersions. <i>Journal of Alloys and Compounds</i> , 2019, 771, 900-904.	5.5	35
8	Layered Hybrid Perovskites for Highly Efficient Three-Photon Absorbers: Theory and Experimental Observation. <i>Advanced Science</i> , 2019, 6, 1801626.	11.2	15
9	Few-Layer Tin Sulfide: A Promising Black-Phosphorus-Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in All-Optical Switching and Wavelength Conversion. <i>Advanced Optical Materials</i> , 2018, 6, 1700985.	7.3	212
10	Pulse duration dependent nonlinear optical response in black phosphorus dispersions. <i>Optics Communications</i> , 2018, 406, 244-248.	2.1	24
11	2D MXene: MXene-Based Nonlinear Optical Information Converter for All-Optical Modulator and Switcher (<i>Laser Photonics Rev.</i> 12(12)/2018). <i>Laser and Photonics Reviews</i> , 2018, 12, 1870055.	8.7	9
12	MXene-Based Nonlinear Optical Information Converter for All-Optical Modulator and Switcher. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800215.	8.7	117
13	Two-Photon Absorption and Fluorescence in Micrometer-Sized Single Crystals of a Rhodamine B Coordinated Metal-Organic Framework. <i>ACS Applied Nano Materials</i> , 2018, 1, 5408-5413.	5.0	19
14	Tunable terahertz/infrared coherent perfect absorption in a monolayer black phosphorus. <i>Optics Express</i> , 2018, 26, 5488.	3.4	44
15	Two-photon absorption arises from two-dimensional excitons. <i>Optics Express</i> , 2018, 26, 16093.	3.4	22
16	Sensitivity enhancement by using few-layer black phosphorus-graphene/TMDCs heterostructure in surface plasmon resonance biochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 542-548.	7.8	322
17	Few-layer antimonene decorated microfiber: ultra-short pulse generation and all-optical thresholding with enhanced long term stability. <i>2D Materials</i> , 2017, 4, 045010.	4.4	260
18	Quantum Dots: Broadband Nonlinear Optical Response in Few-Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability (<i>Advanced Optical Materials</i>)	Tj ETQq0 0 0 7gBT /Overclock 10 Tf	4

#	ARTICLE	IF	CITATIONS
19	Broadband Nonlinear Optical Response in Few-Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability. <i>Advanced Optical Materials</i> , 2017, 5, 1700301.	7.3	269
20	Ultrafast nonlinear absorption and nonlinear refraction in few-layer oxidized black phosphorus. <i>Photonics Research</i> , 2016, 4, 286.	7.0	61
21	Broadband third order nonlinear optical responses of bismuth telluride nanosheets. <i>Optical Materials Express</i> , 2016, 6, 2244.	3.0	52
22	Phosphorene: From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics (Adv. Funct. Mater. 45/2015). <i>Advanced Functional Materials</i> , 2015, 25, 7100-7100.	14.9	6
23	Enhancing the saturable absorption and carrier dynamics of graphene with plasmonic nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2159-2166.	1.5	17
24	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2015, 25, 6996-7002.	14.9	862
25	Broadband nonlinear optical response in multi-layer black phosphorus: an emerging infrared and mid-infrared optical material. <i>Optics Express</i> , 2015, 23, 11183.	3.4	628
26	Broadband ultrafast nonlinear optical response of few-layers graphene: toward the mid-infrared regime. <i>Photonics Research</i> , 2015, 3, 214.	7.0	90
27	Z-scan measurement of the nonlinear refractive index of Nd ³⁺ , Y ³⁺ -codoped CaF ₂ and SrF ₂ crystals. <i>Applied Optics</i> , 2015, 54, 953.	1.8	18
28	Few-layer black phosphorus based saturable absorber mirror for pulsed solid-state lasers. <i>Optics Express</i> , 2015, 23, 22643.	3.4	220
29	Molybdenum disulfide (MoS ₂) as a broadband saturable absorber for ultra-fast photonics. <i>Optics Express</i> , 2014, 22, 7249.	3.4	1,008
30	Broadband optical and microwave nonlinear response in topological insulator. <i>Optical Materials Express</i> , 2014, 4, 587.	3.0	206
31	Improved Transfer Quality of CVD-Grown Graphene by Ultrasonic Processing of Target Substrates: Applications for Ultra-fast Laser Photonics. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10288-10293.	8.0	57
32	Self-Assembled Topological Insulator: Bi ₂ Se ₃ Membrane as a Passive Q-Switcher in an Erbium-Doped Fiber Laser. <i>Journal of Lightwave Technology</i> , 2013, 31, 2857-2863.	4.6	147
33	Wavelength-tunable picosecond soliton fiber laser with Topological Insulator: Bi ₂ Se ₃ as a mode locker: erratum. <i>Optics Express</i> , 2013, 21, 444.	3.4	7
34	Third order nonlinear optical property of Bi ₂ Se ₃ . <i>Optics Express</i> , 2013, 21, 2072.	3.4	271
35	Response to "Comment on "Ultra-short pulse generation by a topological insulator based saturable absorber" [Appl. Phys. Lett. 103, 106101 (2013)]. <i>Applied Physics Letters</i> , 2013, 103, 106102.	3.3	1
36	Wavelength-tunable picosecond soliton fiber laser with Topological Insulator: Bi ₂ Se ₃ as a mode locker. <i>Optics Express</i> , 2012, 20, 27888.	3.4	406

#	ARTICLE	IF	CITATIONS
37	Microwave and optical saturable absorption in graphene. Optics Express, 2012, 20, 23201.	3.4	220
38	Saturable absorption in graphene at 800-nm band. Proceedings of SPIE, 2012, , .	0.8	5
39	Optical generation of high-power 0.1-THz continuous wave by external modulation. Chinese Optics Letters, 2012, 10, 100605-100607.	2.9	0
40	Superior optical Kerr effects induced by two-dimensional excitons. Photonics Research, 0, , .	7.0	5