Yulei Wang

List of Publications by Year
in descending order

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90	1,256	394421 19	434195 31
papers	citations	h-index	g-index

91	91	91	625
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stimulated Brillouin scattering materials, experimental design and applications: A review. Optical Materials, 2018, 75, 626-645.	3.6	94
2	Subspace aided data-driven design of robust fault detection and isolation systems. Automatica, 2011, 47, 2474-2480.	5.0	66
3	Real-time causal processing of anomaly detection for hyperspectral imagery. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1511-1534.	4.7	52
4	Diamond Brillouin laser in the visible. APL Photonics, 2020, 5, .	5.7	51
5	High-quality near-field beam achieved in a high-power laser based on SLM adaptive beam-shaping system. Optics Express, 2015, 23, 681.	3.4	50
6	Global and Local Real-Time Anomaly Detectors for Hyperspectral Remote Sensing Imagery. Remote Sensing, 2015, 7, 3966-3985.	4.0	47
7	Iterative Target-Constrained Interference-Minimized Classifier for Hyperspectral Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1095-1117.	4.9	42
8	Band Subset Selection for Anomaly Detection in Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4887-4898.	6.3	41
9	Generation of 360 ps laser pulse with 3 J energy by stimulated Brillouin scattering with a nonfocusing scheme. Optics Express, 2015, 23, 23318.	3.4	37
10	Data-Driven Design of Parity Space-Based FDI System for AMT Vehicles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 405-415.	5.8	37
11	Enhanced stimulated Brillouin scattering utilizing Raman conversion in diamond. Applied Physics Letters, 2022, 120, .	3.3	36
12	Anomaly Detection Using Causal Sliding Windows. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3260-3270.	4.9	35
13	<italic>A Posteriori</italic> Hyperspectral Anomaly Detection for Unlabeled Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3091-3106.	6.3	33
14	A comprehensive review on the development and applications of narrowâ€linewidth lasers. Microwave and Optical Technology Letters, 2022, 64, 2244-2255.	1.4	31
15	High Compact, High Quality Single Longitudinal Mode Hundred Picoseconds Laser Based on Stimulated Brillouin Scattering Pulse Compression. Applied Sciences (Switzerland), 2016, 6, 29.	2.5	27
16	A Fast Point Clouds Registration Algorithm for Laser Scanners. Applied Sciences (Switzerland), 2021, 11, 3426.	2.5	27
17	Hundred-Joule-level, nanosecond-pulse Nd:glass laser system with high spatiotemporal beam quality. High Power Laser Science and Engineering, 2016, 4, .	4.6	25
18	Spatial beam shaping for high-power frequency tripling lasers based on a liquid crystal spatial light modulator. Optics Communications, 2016, 367, 181-185.	2.1	23

#	Article	IF	Citations
19	Highly efficient Brillouin amplification of strong Stokes seed. Applied Physics Letters, 2010, 96, 221107.	3.3	22
20	Class Information-Based Band Selection for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8394-8416.	6.3	21
21	Pulse temporal compression by two-stage stimulated Brillouin scattering and laser-induced breakdown. Applied Physics Letters, 2017, 110, .	3.3	19
22	Pulse-shape dependence of stimulated Brillouin scattering pulse compression to sub-phonon lifetime. Optics Express, 2018, 26, 5701.	3.4	19
23	Comprehensive Thermal Analysis of Diamond in a High-Power Raman Cavity Based on FVM-FEM Coupled Method. Nanomaterials, 2021, 11, 1572.	4.1	19
24	Pulse compression to one-tenth of phonon lifetime using quasi-steady-state stimulated Brillouin scattering. Optics Express, 2018, 26, 23051.	3.4	17
25	Doubly Q-switched single longitudinal mode Nd:YAG laser with electro-optical modulator and Cr4ï¼‹:YAG. Optics Communications, 2020, 463, 125500.	2.1	17
26	Rotating off-centered lens in SBS phase conjugation mirror for high-repetition-rate operation. Optics Express, 2019, 27, 9895.	3.4	16
27	Analysis of the beam-pointing stability in the high power laser system. Optik, 2016, 127, 6056-6061.	2.9	15
28	Active frequency matching in stimulated Brillouin amplification for production of a 24â€‰â€‰J, 200â€‰â€‰ps laser pulse. Optics Letters, 2018, 43, 511.	3.3	15
29	Using the spatial light modulator as a binary optical element: application to spatial beam shaping for high-power lasers. Applied Optics, 2018, 57, 7060.	1.8	15
30	Demonstration of 25 J, 10 Hz, nanosecond laser beam combination system based on non-collinear Brillouin amplification. Optics Express, 2018, 26, 32717.	3.4	15
31	Phase matching for noncollinear Brillouin amplification based on controlling of frequency shift of Stokes seed. Optics Letters, 2014, 39, 3047.	3.3	13
32	Fluctuation initiation of Stokes signal and its effect on stimulated Brillouin scattering pulse compression. Optics Express, 2017, 25, 14378.	3.4	13
33	Magnesium Alloy Matching Layer for High-Performance Transducer Applications. Sensors, 2018, 18, 4424.	3.8	13
34	Quarter acoustic period pulse compression using stimulated Brillouin scattering in PF-5060. Optics Express, 2022, 30, 12586.	3.4	13
35	High stability, single frequency, 300 mJ, 130 ps laser pulse generation based on stimulated Brillouin scattering pulse compression. Laser and Particle Beams, 2015, 33, 11-15.	1.0	12
36	Efficient KDP frequency doubling SBS pulse compressed 532 nm hundred picosecond laser. Optik, 2016, 127, 9201-9205.	2.9	12

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37	Recursive Local Summation of RX Detection for Hyperspectral Image Using Sliding Windows. Remote Sensing, 2018, 10, 103.	4.0	12
38	Sub-nanosecond stimulated Brillouin scattering pulse compression using HT270 for kHz repetition rate operation. Optics Express, 2019, 27, 29789.	3.4	12
39	A promotion of stability for temporal compression based on SBS in an interferometric scheme. Journal of Modern Optics, 2016, 63, 1734-1740.	1.3	11
40	SBS pulse compression using bulk fused silica by diode-pumped solid-state lasers at 1ÂkHz repetition rate. Optics and Laser Technology, 2020, 128, 106258.	4.6	11
41	Fabryâ€“PÃ©rot based short pulsed laser linewidth measurement with enhanced spectral resolution. Results in Physics, 2022, 37, 105510.	4.1	11
42	High-Efficiency Optical Parametric Oscillator Based on Stimulated Brillouin Scattering Pulse Shaping. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	10
43	A Single -Longitudinal-Mode Nd:Ce:YAG Q-Switched Laser Based on a Three-Plan Resonant Reflector. Journal of Russian Laser Research, 2016, 37, 382-388.	0.6	9
44	Study on near-field image extraction in high power lasers. Optik, 2016, 127, 4495-4497.	2.9	9
45	Demonstration of an ultraviolet stimulated Brillouin scattering pulse compressed hundred picosecond laser in LiB₃O₅crystals. Journal of Optics (United Kingdom), 2017, 19, 085502.	2.2	9
46	A pulseâ€•width adjustable electroâ€•optic Qâ€•switched nanosecond laser oscillator. Microwave and Optical Technology Letters, 2022, 64, 2239-2243.	1.4	9
47	Magnesium Alloy Matching Layer for PMN-PT Single Crystal Transducer Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1865-1872.	3.0	8
48	Amplification of 200-ps high-intensity laser pulses via frequency matching stimulated Brillouin scattering. High Power Laser Science and Engineering, 2019, 7, .	4.6	7
49	Developments of Picosecond Lasers Based on Stimulated Brillouin Scattering Pulse Compression. Frontiers in Physics, 2021, 9, .	2.1	7
50	Self-pumped SBS effect of high-power super-Gaussian-shaped laser pulses. Laser and Particle Beams, 2016, 34, 72-79.	1.0	6
51	Wavefront Shaping by a Small-Aperture Deformable Mirror in the Front Stage for High-Power Laser Systems. Applied Sciences (Switzerland), 2017, 7, 379.	2.5	6
52	Investigation of sub-phonon lifetime pulse amplification in active frequency matching stimulated Brillouin scattering. Optics Express, 2019, 27, 16661.	3.4	6
53	Compound Cavity Passively Q-Switched Single-Longitudinal-Mode Diode-Pumped Laser. Frontiers in Physics, 2022, 10, .	2.1	6
54	Measurement of the threshold of nonfocusing-pumped stimulated Brillouin scattering based on temporal characteristic of the reflected pulse. Applied Physics Express, 2014, 7, 122601.	2.4	5

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55	Modified genetic algorithm-based sub-pixel mapping. Optik, 2014, 125, 6379-6383.	2.9	5
56	Study of evaluating nearfield beam quality of the high power laser beams. Optik, 2018, 157, 148-155.	2.9	5
57	Drilling study on Cu, Mo, W and Ti by using SBS pulse compressed steep leading edge hundred picoseconds laser. Optik, 2016, 127, 11156-11160.	2.9	4
58	Beam alignment based on the imaging properties of the spatial filter by controlling the deformable mirror in a high power laser. Optik, 2017, 142, 205-210.	2.9	4
59	High-Visibility Pseudothermal Light Source Based on a Cr4+â€‰:â€‰YAG Passively Q-Switched Single-Longitudinal-Mode Laser. International Journal of Optics, 2020, 2020, 1-7.	1.4	4
60	Tailorable Brillouin Light Scattering in a Lithium Niobate Waveguide. Applied Sciences (Switzerland), 2021, 11, 8390.	2.5	4
61	SBS-PCM characteristic of sub-nanosecond laser based on rotating wedge. Optics Communications, 2022, 522, 128610.	2.1	4
62	Background suppression issues in anomaly detection for hyperspectral imagery. Proceedings of SPIE, 2014, , .	0.8	3
63	Research on wavefront properties of high power frequency tripling lasers based on type II/II KDP crystals. Optik, 2017, 145, 465-472.	2.9	3
64	Resilient Fault and Attack Detection of DCT Vehicles Using Parity Space Approach. , 2019, , .		3
65	The effect of pump beam focusing characteristics on stimulated Brillouin scattering. Optics Communications, 2022, 515, 128205.	2.1	3
66	High stability hundreds of picoseconds pulse compression using self-pumped SBS. Results in Physics, 2022, 40, 105785.	4.1	3
67	Progressive constrained energy minimization for subpixel detection. Proceedings of SPIE, 2013, , .	0.8	2
68	Numerical investigation of growth model for laser-induced damage in optics under high power laser irradiation. Optik, 2019, 194, 163053.	2.9	2
69	High Energy, High Compact Single Frequency Hundred Picoseconds Laser Based on Stimulated Brillouin Scattering Pulse Compression. , 2016, , .		2
70	Dual-frequency pulse laser based on acousto-optic modulation. Optics Express, 2021, 29, 37747.	3.4	2
71	Sparse representation within disconnected spatial support for target detection in hyperspectral imagery. , 2014, , .		1
72	Anomaly detection using sliding causal windows. , 2014, , .		1

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73	Data-driven design of fault detection and isolation systems subject to Hammerstein nonlinearity. , 2015, , .		1
74	Using an active temporal compensating system to achieve the super-Gaussian pulses in high-power lasers. , 2015, , .		1
75	A formalized delegation model for multimedia social networks. Multimedia Tools and Applications, 2017, 76, 3279-3291.	3.9	1
76	Spatial beam shaping of a focused laser with quasi-near-field characteristics based on a concatenated fuzzy matching algorithm. Optik, 2021, 242, 166991.	2.9	1
77	Single Frequency 310ps, 1.67J Laser Pulses Generation with Nonfocusing-pumped Stimulated Brillouin Scattering. , 2015, , .		1
78	Minimizing cross sectional pulse width difference between central and edge parts of SBS compressed beam. Optics Express, 2019, 27, 1646.	3.4	1
79	Generation of a High-Intensity Temporal Step Waveform Based on Stimulated Brillouin Scattering. Photonics, 2022, 9, 309.	2.0	1
80	Fault diagnosis using cascade H<inf>∞</inf> observers with application to spacecraft attitude control. , 2010, , .		0
81	A new approach to design cascade fault diagnosis observers for flexible spacecraft. , 2010, , .		0
82	Data-driven design and robust implementation of monitoring and fault detection system for AMT vehicles. , 2014, , .		0
83	Kernel subspace-based real-time anomaly detection for hyperspectral imagery. , 2015, , .		0
84	Image matching method between the SLM and the CCD in a adaptive beam shaping system. Optik, 2018, 167, 73-79.	2.9	0
85	Study on the correction method of the deformable mirror surface profile. Optik, 2018, 171, 600-604.	2.9	0
86	Hyperspectral Band Selection Based on Improved K-Means Algorithm. Lecture Notes in Electrical Engineering, 2021, , 1677-1681.	0.4	0
87	Double-Frequency-Shift Acousto-Optic Modulator with Controllable Pulse Pair Frequency Difference. Photonics, 2021, 8, 436.	2.0	0
88	Joule-level 10 Hz non-collinear multi-pump SBS amplifier with high energy extraction efficiency used for laser beams combination. , 2019, , .		0
89	Joint Kurtosisâ€“Skewness-Based Background Smoothing for Local Hyperspectral Anomaly Detection. Lecture Notes in Electrical Engineering, 2020, , 587-593.	0.4	0
90	A Theoretical Study of Tunable Brillouin Lasers Based on a Diamond Suspended Waveguide. Frontiers in Physics, 2022, 10, .	2.1	0