

# Yulei Wang

## List of Publications by Year in descending order

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90  
papers

1,256  
citations

394421

19  
h-index

434195

31  
g-index

91  
all docs

91  
docs citations

91  
times ranked

625  
citing authors

#	ARTICLE	IF	CITATIONS
1	A pulse-width adjustable electro-optic Q-switched nanosecond laser oscillator. Microwave and Optical Technology Letters, 2022, 64, 2239-2243.	1.4	9
2	A comprehensive review on the development and applications of narrowlinewidth lasers. Microwave and Optical Technology Letters, 2022, 64, 2244-2255.	1.4	31
3	Quarter acoustic period pulse compression using stimulated Brillouin scattering in PF-5060. Optics Express, 2022, 30, 12586.	3.4	13
4	Compound Cavity Passively Q-Switched Single-Longitudinal-Mode Diode-Pumped Laser. Frontiers in Physics, 2022, 10, .	2.1	6
5	The effect of pump beam focusing characteristics on stimulated Brillouin scattering. Optics Communications, 2022, 515, 128205.	2.1	3
6	Fabry-Pérot based short pulsed laser linewidth measurement with enhanced spectral resolution. Results in Physics, 2022, 37, 105510.	4.1	11
7	Generation of a High-Intensity Temporal Step Waveform Based on Stimulated Brillouin Scattering. Photonics, 2022, 9, 309.	2.0	1
8	Enhanced stimulated Brillouin scattering utilizing Raman conversion in diamond. Applied Physics Letters, 2022, 120, .	3.3	36
9	A Theoretical Study of Tunable Brillouin Lasers Based on a Diamond Suspended Waveguide. Frontiers in Physics, 2022, 10, .	2.1	0
10	SBS-PCM characteristic of sub-nanosecond laser based on rotating wedge. Optics Communications, 2022, 522, 128610.	2.1	4
11	High stability hundreds of picoseconds pulse compression using self-pumped SBS. Results in Physics, 2022, 40, 105785.	4.1	3
12	Hyperspectral Band Selection Based on Improved K-Means Algorithm. Lecture Notes in Electrical Engineering, 2021, , 1677-1681.	0.4	0
13	A Fast Point Clouds Registration Algorithm for Laser Scanners. Applied Sciences (Switzerland), 2021, 11, 3426.	2.5	27
14	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
15	Tailorable Brillouin Light Scattering in a Lithium Niobate Waveguide. Applied Sciences (Switzerland), 2021, 11, 8390.	2.5	4
16	Developments of Picosecond Lasers Based on Stimulated Brillouin Scattering Pulse Compression. Frontiers in Physics, 2021, 9, .	2.1	7
17	Comprehensive Thermal Analysis of Diamond in a High-Power Raman Cavity Based on FVM-FEM Coupled Method. Nanomaterials, 2021, 11, 1572.	4.1	19
18	Double-Frequency-Shift Acousto-Optic Modulator with Controllable Pulse Pair Frequency Difference. Photonics, 2021, 8, 436.	2.0	0

#	ARTICLE	IF	CITATIONS
19	Dual-frequency pulse laser based on acousto-optic modulation. <i>Optics Express</i> , 2021, 29, 37747.	3.4	2
20	High-Visibility Pseudothermal Light Source Based on a Cr <sup>4+</sup> :YAG Passively Q-Switched Single-Longitudinal-Mode Laser. <i>International Journal of Optics</i> , 2020, 2020, 1-7.	1.4	4
21	SBS pulse compression using bulk fused silica by diode-pumped solid-state lasers at 1 kHz repetition rate. <i>Optics and Laser Technology</i> , 2020, 128, 106258.	4.6	11
22	Diamond Brillouin laser in the visible. <i>APL Photonics</i> , 2020, 5, .	5.7	51
23	Doubly Q-switched single longitudinal mode Nd:YAG laser with electro-optical modulator and Cr <sup>4+</sup> :YAG. <i>Optics Communications</i> , 2020, 463, 125500.	2.1	17
24	Joint Kurtosis and Skewness-Based Background Smoothing for Local Hyperspectral Anomaly Detection. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 587-593.	0.4	0
25	High-Efficiency Optical Parametric Oscillator Based on Stimulated Brillouin Scattering Pulse Shaping. <i>IEEE Photonics Journal</i> , 2019, 11, 1-9.	2.0	10
26	Class Information-Based Band Selection for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8394-8416.	6.3	21
27	Numerical investigation of growth model for laser-induced damage in optics under high power laser irradiation. <i>Optik</i> , 2019, 194, 163053.	2.9	2
28	Amplification of 200-ps high-intensity laser pulses via frequency matching stimulated Brillouin scattering. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	7
29	Resilient Fault and Attack Detection of DCT Vehicles Using Parity Space Approach. , 2019, , .		3
30	Rotating off-centered lens in SBS phase conjugation mirror for high-repetition-rate operation. <i>Optics Express</i> , 2019, 27, 9895.	3.4	16
31	Investigation of sub-phonon lifetime pulse amplification in active frequency matching stimulated Brillouin scattering. <i>Optics Express</i> , 2019, 27, 16661.	3.4	6
32	Sub-nanosecond stimulated Brillouin scattering pulse compression using HT270 for kHz repetition rate operation. <i>Optics Express</i> , 2019, 27, 29789.	3.4	12
33	Minimizing cross sectional pulse width difference between central and edge parts of SBS compressed beam. <i>Optics Express</i> , 2019, 27, 1646.	3.4	1
34	Joule-level 10 Hz non-collinear multi-pump SBS amplifier with high energy extraction efficiency used for laser beams combination. , 2019, , .		0
35	Iterative Target-Constrained Interference-Minimized Classifier for Hyperspectral Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 1095-1117.	4.9	42
36	Image matching method between the SLM and the CCD in a adaptive beam shaping system. <i>Optik</i> , 2018, 167, 73-79.	2.9	0

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37	Study of evaluating nearfield beam quality of the high power laser beams. <i>Optik</i> , 2018, 157, 148-155.	2.9	5
38	<i>A Posteriori</i> Hyperspectral Anomaly Detection for Unlabeled Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 3091-3106.	6.3	33
39	Stimulated Brillouin scattering materials, experimental design and applications: A review. <i>Optical Materials</i> , 2018, 75, 626-645.	3.6	94
40	Magnesium Alloy Matching Layer for High-Performance Transducer Applications. <i>Sensors</i> , 2018, 18, 4424.	3.8	13
41	Pulse compression to one-tenth of phonon lifetime using quasi-steady-state stimulated Brillouin scattering. <i>Optics Express</i> , 2018, 26, 23051.	3.4	17
42	Pulse-shape dependence of stimulated Brillouin scattering pulse compression to sub-phonon lifetime. <i>Optics Express</i> , 2018, 26, 5701.	3.4	19
43	Active frequency matching in stimulated Brillouin amplification for production of a 24â€‰%â€‰J, 200â€‰%â€‰ps laser pulse. <i>Optics Letters</i> , 2018, 43, 511.	3.3	15
44	Study on the correction method of the deformable mirror surface profile. <i>Optik</i> , 2018, 171, 600-604.	2.9	0
45	Recursive Local Summation of RX Detection for Hyperspectral Image Using Sliding Windows. <i>Remote Sensing</i> , 2018, 10, 103.	4.0	12
46	Using the spatial light modulator as a binary optical element: application to spatial beam shaping for high-power lasers. <i>Applied Optics</i> , 2018, 57, 7060.	1.8	15
47	Magnesium Alloy Matching Layer for PMN-PT Single Crystal Transducer Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1865-1872.	3.0	8
48	Demonstration of 25 J, 10 Hz, nanosecond laser beam combination system based on non-collinear Brillouin amplification. <i>Optics Express</i> , 2018, 26, 32717.	3.4	15
49	Beam alignment based on the imaging properties of the spatial filter by controlling the deformable mirror in a high power laser. <i>Optik</i> , 2017, 142, 205-210.	2.9	4
50	Band Subset Selection for Anomaly Detection in Hyperspectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4887-4898.	6.3	41
51	Pulse temporal compression by two-stage stimulated Brillouin scattering and laser-induced breakdown. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	19
52	Research on wavefront properties of high power frequency tripling lasers based on type II/II KDP crystals. <i>Optik</i> , 2017, 145, 465-472.	2.9	3
53	Demonstration of an ultraviolet stimulated Brillouin scattering pulse compressed hundred picosecond laser in LiB<sub>3</sub>O<sub>5</sub> crystals. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 085502.	2.2	9
54	A formalized delegation model for multimedia social networks. <i>Multimedia Tools and Applications</i> , 2017, 76, 3279-3291.	3.9	1

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55	Fluctuation initiation of Stokes signal and its effect on stimulated Brillouin scattering pulse compression. Optics Express, 2017, 25, 14378.	3.4	13
56	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
57	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
58	Efficient KDP frequency doubling SBS pulse compressed 532 nm hundred picosecond laser. Optik, 2016, 127, 9201-9205.	2.9	12
59	Self-pumped SBS effect of high-power super-Gaussian-shaped laser pulses. Laser and Particle Beams, 2016, 34, 72-79.	1.0	6
60	Analysis of the beam-pointing stability in the high power laser system. Optik, 2016, 127, 6056-6061.	2.9	15
61	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
62	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
63	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
64	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
65	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
66	Study on near-field image extraction in high power lasers. Optik, 2016, 127, 4495-4497.	2.9	9
67	High Energy, High Compact Single Frequency Hundred Picoseconds Laser Based on Stimulated Brillouin Scattering Pulse Compression. , 2016, , .		2
68	Data-driven design of fault detection and isolation systems subject to Hammerstein nonlinearity. , 2015, , .		1
69	Global and Local Real-Time Anomaly Detectors for Hyperspectral Remote Sensing Imagery. Remote Sensing, 2015, 7, 3966-3985.	4.0	47
70	Kernel subspace-based real-time anomaly detection for hyperspectral imagery. , 2015, , .		0
71	Using an active temporal compensating system to achieve the super-Gaussian pulses in high-power lasers. , 2015, , .		1
72	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

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73	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
74	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
75	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
76	Data-Driven Design of Parity Space-Based FDI System for AMT Vehicles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 405-415.	5.8	37
77	Single Frequency 310ps, 1.67J Laser Pulses Generation with Nonfocusing-pumped Stimulated Brillouin Scattering. , 2015, , .		1
78	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
79	Data-driven design and robust implementation of monitoring and fault detection system for AMT vehicles. , 2014, , .		0
80	Sparse representation within disconnected spatial support for target detection in hyperspectral imagery. , 2014, , .		1
81	Phase matching for noncollinear Brillouin amplification based on controlling of frequency shift of Stokes seed. Optics Letters, 2014, 39, 3047.	3.3	13
82	Anomaly detection using sliding causal windows. , 2014, , .		1
83	Background suppression issues in anomaly detection for hyperspectral imagery. Proceedings of SPIE, 2014, , .	0.8	3
84	Modified genetic algorithm-based sub-pixel mapping. Optik, 2014, 125, 6379-6383.	2.9	5
85	Real-time causal processing of anomaly detection for hyperspectral imagery. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1511-1534.	4.7	52
86	Progressive constrained energy minimization for subpixel detection. Proceedings of SPIE, 2013, , .	0.8	2
87	Subspace aided data-driven design of robust fault detection and isolation systems. Automatica, 2011, 47, 2474-2480.	5.0	66
88	Highly efficient Brillouin amplification of strong Stokes seed. Applied Physics Letters, 2010, 96, 221107.	3.3	22
89	Fault diagnosis using cascade H <sub>∞</sub> observers with application to spacecraft attitude control. , 2010, , .		0
90	A new approach to design cascade fault diagnosis observers for flexible spacecraft. , 2010, , .		0