

Chao Geng

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Predictive optimization algorithm for beam combination systems based on adaptive fiber optics collimators. <i>Optics and Lasers in Engineering</i> , 2022, 148, 106753.	3.8	8
2	Stable control of the fiber laser phased array under long-range turbulent atmosphere. <i>Optics and Laser Technology</i> , 2022, 146, 107528.	4.6	3
3	Coherent combining of a large-scale fiber laser array over 2.1km in turbulence based on a beam conformal projection system. <i>Optics Letters</i> , 2022, 47, 365.	3.3	12
4	Experimental research on a multi-aperture phase modulation technique based on a corner-cube reflector array. <i>Optics Express</i> , 2022, 30, 3793.	3.4	1
5	Discussion on Piston-Type Phase Ambiguity in a Coherent Beam Combining System. <i>Photonics</i> , 2022, 9, 49.	2.0	1
6	Deep Learning Piston Aberration Control of Fiber Laser Phased Array By Spiral Phase Modulation. <i>Journal of Lightwave Technology</i> , 2022, 40, 3980-3991.	4.6	2
7	Optical Fiber Bundle-Based High-Speed and Precise Micro-Scanning for Image High-Resolution Reconstruction. <i>Sensors</i> , 2022, 22, 127.	3.8	2
8	Experimental Demonstration of Adaptive Optics Correction of the External Aberrations for Distributed Fiber Laser Array. <i>IEEE Access</i> , 2021, 9, 51464-51472.	4.2	2
9	Indirectly coherent beam combining of pulsed lasers based on active control of continuous carrier. <i>Optical Engineering</i> , 2021, 60, .	1.0	0
10	Experimental Demonstration of Central-Lobe Energy Enhancement Based on Amplitude Modulation of Beamlets in 19 Elements Fiber Laser Phased Array. <i>IEEE Photonics Journal</i> , 2021, 13, 1-13.	2.0	11
11	Optimization of Virtual Shack-Hartmann Wavefront Sensing. <i>Sensors</i> , 2021, 21, 4698.	3.8	1
12	Adaptive Laser Aiming Through 2 km Horizontal Atmosphere with Precise-Delayed SPGD Algorithm. <i>Journal of Russian Laser Research</i> , 2021, 42, 462-467.	0.6	1
13	Experimental Demonstration of Efficient Coherent Combining of 19 Fiber Lasers By Adaptive Gain Coefficient SPGD Algorithm. <i>Journal of Russian Laser Research</i> , 2021, 42, 609-617.	0.6	1
14	Continuous Tracking and Pointing of Coherent Beam Combining System via Target-in-the-Loop Concept. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1119-1122.	2.5	4
15	A phase-error prediction method for coherent beam combining via convolutional neural network. <i>Optik</i> , 2021, 246, 167827.	2.9	6
16	Performance comparison of quasi-optical phased arrays using micro lens array with different structures. <i>Infrared Physics and Technology</i> , 2021, 118, 103861.	2.9	4
17	High-resolution beam scanning technique with microlens array and adaptive fiber-optics collimator. <i>Optics Express</i> , 2021, 29, 359.	3.4	11
18	Characterization of Kepler structured microlens array scanners for 2D scanning. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Theory analysis and experimental demonstration of a microlens array scanner with Kepler structure. <i>Applied Optics</i> , 2020, 59, 10754.	1.8	5
20	Fiber laser transceiving and wavefront aberration mitigation with adaptive distributed aperture array for free-space optical communications. <i>Optics Letters</i> , 2020, 45, 1906.	3.3	26
21	Wavefront sensing based on fiber coupling in adaptive fiber optics collimator array. <i>Optics Express</i> , 2019, 27, 8943.	3.4	9
22	Research Progress of Tip/Tilts Control Bandwidth Promotion for Beam Combining Application in IOE, CAS. , 2019, , .		0
23	Fiber-based coherent polarization beam combining with cascaded phase-locking and polarization-transforming controls. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 055703.	2.2	2
24	Control Bandwidth Promotion of Adaptive Fiber-Optics Collimator and Its Application in Coherent Beam Combination. <i>IEEE Photonics Journal</i> , 2018, 10, 1-13.	2.0	2
25	Adaptive SMF Coupling Based on Precise-Delayed SPGD Algorithm and Its Application in Free Space Optical Communication. <i>IEEE Photonics Journal</i> , 2018, 10, 1-12.	2.0	17
26	Coherent Polarization Beam Combining Approach Based on Polarization Controlling in Fiber Devices. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 945-948.	2.5	4
27	Experimental Demonstration of Coherent Combining With Tip/Tilt Control Based on Adaptive Space-to-Fiber Laser Beam Coupling. <i>IEEE Photonics Journal</i> , 2017, 9, 1-12.	2.0	36
28	Multi-aperture all-fiber active coherent beam combining for free-space optical communication receivers. <i>Optics Express</i> , 2017, 25, 27519.	3.4	35
29	Combining module based on coherent polarization beam combining. <i>Applied Optics</i> , 2017, 56, 2020.	2.1	12
30	Performance analysis of adaptive fiber laser array propagating in atmosphere with correction of high order aberrations in sub-aperture. , 2016, , .		0
31	Numerical analysis of the convergence speed of the SPGD algorithm with two different perturbation methods in coherent beam combination using active segmented mirror. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
32	Co-Aperture Transceiving of Two Combined Beams Based on Adaptive Fiber Coupling Control. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1787-1790.	2.5	8
33	Experimental demonstration of single-mode fiber coupling using adaptive fiber coupler. <i>Chinese Physics B</i> , 2014, 23, 014207.	1.4	19
34	New applications of adaptive fiber-optics collimator in fiber coupling and beam pointing. , 2014, , .		1
35	1.5 kW Incoherent Beam Combining of Four Fiber Lasers Using Adaptive Fiber-Optics Collimators. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1286-1289.	2.5	27
36	Experimental demonstration of using divergence cost-function in SPGD algorithm for coherent beam combining with tip/tilt control. <i>Optics Express</i> , 2013, 21, 25045.	3.4	73

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37	Coherent beam combination of adaptive fiber laser array with tilt-tip and phase-locking control. Chinese Physics B, 2013, 22, 024206.	1.4	6
38	350-W Coherent Beam Combining of Fiber Amplifiers With Tilt-Tip and Phase-Locking Control. IEEE Photonics Technology Letters, 2012, 24, 1781-1784.	2.5	28
39	Coherent beam combining of collimated fiber array based on target-in-the-loop technique. , 2011, , .		3
40	Coherent beam combination of an optical array using adaptive fiber optics collimators. Optics Communications, 2011, 284, 5531-5536.	2.1	41
41	Simulation and analysis of laser coherent combining system based on adaptive fiber optic collimator array. Proceedings of SPIE, 2009, , .	0.8	0