

# Chao Geng

## List of Publications by Year in descending order

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41  
papers

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citations

840776

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752698

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41  
docs citations

41  
times ranked

131  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental demonstration of using divergence cost-function in SPGD algorithm for coherent beam combining with tip/tilt control. Optics Express, 2013, 21, 25045.	3.4	73
2	Coherent beam combination of an optical array using adaptive fiber optics collimators. Optics Communications, 2011, 284, 5531-5536.	2.1	41
3	Experimental Demonstration of Coherent Combining With Tip/Tilt Control Based on Adaptive Space-to-Fiber Laser Beam Coupling. IEEE Photonics Journal, 2017, 9, 1-12.	2.0	36
4	Multi-aperture all-fiber active coherent beam combining for free-space optical communication receivers. Optics Express, 2017, 25, 27519.	3.4	35
5	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
6	1.5 kW Incoherent Beam Combining of Four Fiber Lasers Using Adaptive Fiber-Optics Collimators. IEEE Photonics Technology Letters, 2013, 25, 1286-1289.	2.5	27
7	Fiber laser transceiving and wavefront aberration mitigation with adaptive distributed aperture array for free-space optical communications. Optics Letters, 2020, 45, 1906.	3.3	26
8	Experimental demonstration of single-mode fiber coupling using adaptive fiber coupler. Chinese Physics B, 2014, 23, 014207.	1.4	19
9	Adaptive SMF Coupling Based on Precise-Delayed SPGD Algorithm and Its Application in Free Space Optical Communication. IEEE Photonics Journal, 2018, 10, 1-12.	2.0	17
10	Combining module based on coherent polarization beam combining. Applied Optics, 2017, 56, 2020.	2.1	12
11	Coherent combining of a large-scale fiber laser array over 2.1 km in turbulence based on a beam conformal projection system. Optics Letters, 2022, 47, 365.	3.3	12
12	Experimental Demonstration of Central-Lobe Energy Enhancement Based on Amplitude Modulation of Beamlets in 19 Elements Fiber Laser Phased Array. IEEE Photonics Journal, 2021, 13, 1-13.	2.0	11
13	High-resolution beam scanning technique with microlens array and adaptive fiber-optics collimator. Optics Express, 2021, 29, 359.	3.4	11
14	Wavefront sensing based on fiber coupling in adaptive fiber optics collimator array. Optics Express, 2019, 27, 8943.	3.4	9
15	Co-Aperture Transceiving of Two Combined Beams Based on Adaptive Fiber Coupling Control. IEEE Photonics Technology Letters, 2015, 27, 1787-1790.	2.5	8
16	Predictive optimization algorithm for beam combination systems based on adaptive fiber optics collimators. Optics and Lasers in Engineering, 2022, 148, 106753.	3.8	8
17	Coherent beam combination of adaptive fiber laser array with tilt-tip and phase-locking control. Chinese Physics B, 2013, 22, 024206.	1.4	6
18	A phase-error prediction method for coherent beam combining via convolutional neural network. Optik, 2021, 246, 167827.	2.9	6

#	ARTICLE	IF	CITATIONS
19	Theory analysis and experimental demonstration of a microlens array scanner with Kepler structure. Applied Optics, 2020, 59, 10754.	1.8	5
20	Coherent Polarization Beam Combining Approach Based on Polarization Controlling in Fiber Devices. IEEE Photonics Technology Letters, 2017, 29, 945-948.	2.5	4
21	Continuous Tracking and Pointing of Coherent Beam Combining System via Target-in-the-Loop Concept. IEEE Photonics Technology Letters, 2021, 33, 1119-1122.	2.5	4
22	Performance comparison of quasi-optical phased arrays using micro lens array with different structures. Infrared Physics and Technology, 2021, 118, 103861.	2.9	4
23	Coherent beam combining of collimated fiber array based on target-in-the-loop technique. , 2011, , .		3
24	Stable control of the fiber laser phased array under long-range turbulent atmosphere. Optics and Laser Technology, 2022, 146, 107528.	4.6	3
25	Fiber-based coherent polarization beam combining with cascaded phase-locking and polarization-transforming controls. Journal of Optics (United Kingdom), 2018, 20, 055703.	2.2	2
26	Control Bandwidth Promotion of Adaptive Fiber-Optics Collimator and Its Application in Coherent Beam Combination. IEEE Photonics Journal, 2018, 10, 1-13.	2.0	2
27	Experimental Demonstration of Adaptive Optics Correction of the External Aberrations for Distributed Fiber Laser Array. IEEE Access, 2021, 9, 51464-51472.	4.2	2
28	Deep Learning Piston Aberration Control of Fiber Laser Phased Array By Spiral Phase Modulation. Journal of Lightwave Technology, 2022, 40, 3980-3991.	4.6	2
29	Optical Fiber Bundle-Based High-Speed and Precise Micro-Scanning for Image High-Resolution Reconstruction. Sensors, 2022, 22, 127.	3.8	2
30	New applications of adaptive fiber-optics collimator in fiber coupling and beam pointing. , 2014, , .		1
31	Optimization of Virtual Shack-Hartmann Wavefront Sensing. Sensors, 2021, 21, 4698.	3.8	1
32	Adaptive Laser Aiming Through 2 km Horizontal Atmosphere with Precise-Delayed SPGD Algorithm. Journal of Russian Laser Research, 2021, 42, 462-467.	0.6	1
33	Experimental Demonstration of Efficient Coherent Combining of 19 Fiber Lasers By Adaptive Gain Coefficient SPGD Algorithm. Journal of Russian Laser Research, 2021, 42, 609-617.	0.6	1
34	Experimental research on a multi-aperture phase modulation technique based on a corner-cube reflector array. Optics Express, 2022, 30, 3793.	3.4	1
35	Discussion on Piston-Type Phase Ambiguity in a Coherent Beam Combining System. Photonics, 2022, 9, 49.	2.0	1
36	Simulation and analysis of laser coherent combining system based on adaptive fiber optic collimator array. Proceedings of SPIE, 2009, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Numerical analysis of the convergence speed of the SPGD algorithm with two different perturbation methods in coherent beam combination using active segmented mirror. Proceedings of SPIE, 2015, , .	0.8	0
38	Performance analysis of adaptive fiber laser array propagating in atmosphere with correction of high order aberrations in sub-aperture. , 2016, , .		0
39	Indirectly coherent beam combining of pulsed lasers based on active control of continuous carrier. Optical Engineering, 2021, 60, .	1.0	0
40	Research Progress of Tip/Tilts Control Bandwidth Promotion for Beam Combining Application in IOE, CAS. , 2019, , .		0
41	Characterization of Kepler structured microlens array scanners for 2D scanning. , 2021, , .		0