Chensheng Wu

List of Publications by Year
in descending order

40 papers	258 citations	933447 10 h-index	996975 15 g-index
40 all docs	40 docs citations	40 times ranked	194 citing authors

#	ARTICLE	IF	CITATIONS
1	Determining the phase and amplitude distortion of a wavefront using a plenoptic sensor. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 964.	1.5	34
2	Imaging through strong turbulence with a light field approach. Optics Express, 2016, 24, 11975.	3.4	31
3	Using a plenoptic sensor to reconstruct vortex phase structures. Optics Letters, 2016, 41, 3169.	3.3	29
4	Randomized spectral sampling for efficient simulation of laser propagation through optical turbulence. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3249.	2.1	24
5	Plenoptic mapping for imaging and retrieval of the complex field amplitude of a laser beam. Optics Express, 2016, 24, 29852.	3.4	15
6	Multi-aperture laser transmissometer system for long-path aerosol extinction rate measurement. Applied Optics, 2018, 57, 551.	1.8	15
7	Phase and amplitude beam shaping with two deformable mirrors implementing input plane and Fourier plane phase modifications. Applied Optics, 2018, 57, 2337.	1.8	14
8	Measuring the turbulence profile in the lower atmospheric boundary layer. Applied Optics, 2019, 58, 6934.	1.8	13
9	Using turbulence scintillation to assist object ranging from a single camera viewpoint. Applied Optics, 2018, 57, 2177.	1.8	12
10	Modified plenoptic camera for phase and amplitude wavefront sensing. Proceedings of SPIE, 2013, , .	0.8	10
11	Lossy wavefront sensing and correction of distorted laser beams. Applied Optics, 2020, 59, 817.	1.8	8
12	Assisting target recognition through strong turbulence with the help of neural networks. Applied Optics, 2020, 59, 9434.	1.8	7
13	Comparison between the plenoptic sensor and the light field camera in restoring images through turbulence. OSA Continuum, 2019, 2, 2511.	1.8	6
14	Near ground surface turbulence measurements and validation: a comparison between different systems. , 2018, , .		5
15	Using a plenoptic camera to measure distortions in wavefronts affected by atmospheric turbulence. , 2012, , .		4
16	An adaptive optics approach for laser beam correction in turbulence utilizing a modified plenoptic camera. Proceedings of SPIE, 2015, , .	0.8	4
17	Extracting phase distortion from laser glints on a remote target using phase space plenoptic mapping. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1964.	2.1	4
18	Imaging through turbulence using a plenoptic sensor. Proceedings of SPIE, 2015, , .	0.8	3

#	Article	IF	Citations
19	Implementation of a rapid correction algorithm for adaptive optics using a plenoptic sensor. , 2016, , .		3
20	Light field camera study of near-ground turbulence anisotropy and observation of small outer-scales. Optics Letters, 2020, 45, 1156.	3.3	3
21	Exploiting forward-scattering asymmetry in imaging and surface profile measurements through scattering media. OSA Continuum, 2020, 3, 410.	1.8	3
22	Phase and amplitude wave front sensing and reconstruction with a modified plenoptic camera. Proceedings of SPIE, 2014, , .	0.8	2
23	Object recognition through turbulence with a modified plenoptic camera. Proceedings of SPIE, 2015, , .	0.8	2
24	Complex wavefront sensing with a plenoptic sensor. Proceedings of SPIE, 2016, , .	0.8	2
25	Intelligent correction of laser beam propagation through turbulent media using adaptive optics. , 2014, , .		1
26	3D geometric modeling and simulation of laser propagation through turbulence with plenoptic functions. Proceedings of SPIE, 2014, , .	0.8	1
27	A multi-aperture laser transmissometer for detailed characterization of laser propagation over long paths through the turbulent atmosphere. , 2018, , .		1
28	Observing single and multiple laser glints through anisotropic turbulence with a plenoptic sensor. , 2019, , .		1
29	Quadrant Fourier transform and its application in decoding OAM signals. Optics Letters, 2020, 45, 4428.	3.3	1
30	Geometrical optics analysis of atmospheric turbulence. Proceedings of SPIE, 2013, , .	0.8	0
31	Experimental results on the enhanced backscatter phenomenon and its dynamics. , 2014, , .		0
32	Entropy studies on beam distortion by atmospheric turbulence. Proceedings of SPIE, 2015, , .	0.8	0
33	Imaging through water turbulence with a plenoptic sensor. Proceedings of SPIE, 2016, , .	0.8	0
34	Atmospheric characterization on the Kennedy Space Center Shuttle Landing Facility. , 2017, , .		0
35	Phase and amplitude modification of a laser beam by two deformable mirrors using conventional 4f image encryption techniques. , 2017, , .		0
36	Hybrid wavefront sensing and image correction algorithm for imaging through turbulent media. , 2017, , .		0

#	Article	IF	Citations
37	Object detection and geometric profiling through dirty water media using asymmetry properties of backscattered signals. , 2018, , .		0
38	A detailed comparison of non-Kolmogorov and anisotropic optical turbulence theories using wave optics simulations. , 2018, , .		0
39	Fundamental differences between the plenoptic sensor and the light field camera in imaging through turbulence. , 2019, , .		0
40	Characterization and compensation of atmospheric effects on laser beams. , 2019, , .		0