Yuecheng Shen

List of Publications by Year
in descending order

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60 papers	1,439 citations	257450 24 h-index	330143 37 g-index
61 all docs	61 docs citations	61 times ranked	1283 citing authors

#	Article	IF	Citations
1	Focusing light inside dynamic scattering media with millisecond digital optical phase conjugation. Optica, 2017, 4, 280.	9.3	127
2	Ultralong photonic nanojet formed by a two-layer dielectric microsphere. Optics Letters, 2014, 39, 4120.	3.3	93
3	Unidirectional reflectionless light propagation at exceptional points. Nanophotonics, 2017, 6, 977-996.	6.0	89
4	Single-Photon Diode by Exploiting the Photon Polarization in a Waveguide. Physical Review Letters, 2011, 107, 173902.	7.8	87
5	Motionless volumetric photoacoustic microscopy with spatially invariant resolution. Nature Communications, 2017, 8, 780.	12.8	68
6	Focusing light through scattering media by full-polarization digital optical phase conjugation. Optics Letters, 2016, 41, 1130.	3.3	59
7	Focusing light through biological tissue and tissue-mimicking phantoms up to 9.6Âcm in thickness with digital optical phase conjugation. Journal of Biomedical Optics, 2016, 21, 085001.	2.6	55
8	Optimization of photonic nanojets generated by multilayer microcylinders with a genetic algorithm. Optics Express, 2019, 27, 1310.	3.4	50
9	Retrieving the optical transmission matrix of a multimode fiber using the extended Kalman filter. Optics Express, 2020, 28, 9487.	3.4	48
10	Harnessing a multi-dimensional fibre laser using genetic wavefront shaping. Light: Science and Applications, 2020, 9, 149.	16.6	44
11	Generalizing the Gerchbergâ€“Saxton algorithm for retrieving complex optical transmission matrices. Photonics Research, 2021, 9, 34.	7.0	42
12	Focusing light through scattering media by polarization modulation based generalized digital optical phase conjugation. Applied Physics Letters, 2017, 111, 201108.	3.3	40
13	Photonic-Fock-state scattering in a waveguide-QED system and their correlation functions. Physical Review A, 2015, 92, .	2.5	37
14	Multiview Hilbert transformation in full-ring transducer array-based photoacoustic computed tomography. Journal of Biomedical Optics, 2017, 22, 076017.	2.6	34
15	Real-time frequency-encoded spatiotemporal focusing through scattering media using a programmable 2D ultrafine optical frequency comb. Science Advances, 2020, 6, eaay1192.	10.3	34
16	Imaging biological tissue with high-throughput single-pixel compressive holography. Nature Communications, 2021, 12, 4712.	12.8	34
17	An ultranarrow photonic nanojet formed by an engineered two-layer microcylinder of high refractive-index materials. Optics Express, 2019, 27, 9178.	3.4	34
18	Nanoparticle sensing using whispering-gallery-mode resonators: Plasmonic and Rayleigh scatterers. Physical Review A, 2012, 85, .	2.5	30

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19	Controlling 1550-nm light through a multimode fiber using a Hadamard encoding algorithm. Optics Express, 2019, 27, 5570.	3.4	30
20	Dichroism-sensitive photoacoustic computed tomography. Optica, 2018, 5, 495.	9.3	29
21	Bit-efficient, sub-millisecond wavefront measurement using a lock-in camera for time-reversal based optical focusing inside scattering media. Optics Letters, 2016, 41, 1321.	3.3	27
22	Sub-Nyquist sampling boosts targeted light transport through opaque scattering media. Optica, 2017, 4, 97.	9.3	27
23	Switching of the direction of reflectionless light propagation at exceptional points in non-PT-symmetric structures using phase-change materials. Optics Express, 2017, 25, 27283.	3.4	26
24	A thorough study on genetic algorithms in feedback-based wavefront shaping. Journal of Innovative Optical Health Sciences, 2019, 12, .	1.0	26
25	Focusing light inside live tissue using reversibly switchable bacterial phytochrome as a genetically encoded photochromic guide star. Science Advances, 2019, 5, eaay1211.	10.3	26
26	Homogenizing microwave illumination in thermoacoustic tomography by a linear-to-circular polarizer based on frequency selective surfaces. Applied Physics Letters, 2017, 111, .	3.3	25
27	Lock-in camera based heterodyne holography for ultrasound-modulated optical tomography inside dynamic scattering media. Applied Physics Letters, 2016, 108, 231106.	3.3	22
28	Suppressing excitation effects in microwave induced thermoacoustic tomography by multi-view Hilbert transformation. Applied Physics Letters, 2017, 110, .	3.3	18
29	Synthetic Bessel light needle for extended depth-of-field microscopy. Applied Physics Letters, 2018, 113, 181104.	3.3	17
30	Switching photonic nanostructures between cloaking and superscattering regimes using phase-change materials [Invited]. Optical Materials Express, 2018, 8, 1672.	3.0	17
31	Non-PT-symmetric two-layer cylindrical waveguide for exceptional-point-enhanced optical devices. Optics Express, 2019, 27, 37494.	3.4	17
32	High-speed single-shot optical focusing through dynamic scattering media with full-phase wavefront shaping. Applied Physics Letters, 2017, 111, 221109.	3.3	12
33	High-speed alignment optimization of digital optical phase conjugation systems based on autocovariance analysis in conjunction with orthonormal rectangular polynomials. Journal of Biomedical Optics, 2018, 24, 1.	2.6	12
34	Statistical theory of nanoparticle sensing using a whispering-gallery-mode resonator. Physical Review A, 2012, 85, .	2.5	10
35	Exact approach for spatiotemporal dynamics of spontaneous emissions in waveguide quantum electrodynamic systems. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 607.	2.1	10
36	Time-reversed ultrasonically encoded optical focusing through highly scattering ex vivo human cataractous lenses. Journal of Biomedical Optics, 2018, 23, 1.	2.6	10

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37	Feedback-assisted transmission matrix measurement of a multimode fiber in a referenceless system. Optics Letters, 2021, 46, 5542.	3.3	9
38	Ultrafast polarization bio-imaging based on coherent detection and time-stretch techniques. Biomedical Optics Express, 2018, 9, 6556.	2.9	8
39	Efficient glare suppression with Hadamard-encoding-algorithm-based wavefront shaping. Optics Letters, 2019, 44, 4067.	3.3	8
40	Characterization of the spectral memory effect of scattering media. Optics Express, 2021, 29, 26944.	3.4	7
41	Coherent laser detection of the femtowatt-level frequency-shifted optical feedback based on a DFB fiber laser. Optics Letters, 2021, 46, 1229.	3.3	6
42	Delivering targeted color light through a multimode fiber by field synthesis. Optics Express, 2020, 28, 19700.	3.4	6
43	Topological edge states at singular points in non-Hermitian plasmonic systems. Photonics Research, 0, , .	7.0	6
44	Single-shot ultrasound-modulated optical tomography with enhanced speckle contrast. Optics Letters, 2021, 46, 3095.	3.3	5
45	Genetic-algorithm-assisted coherent enhancement absorption in scattering media by exploiting transmission and reflection matrices. Optics Express, 2021, 29, 20353.	3.4	4
46	Modeling of iterative time-reversed ultrasonically encoded optical focusing in a reflection mode. Optics Express, 2021, 29, 30961.	3.4	3
47	Numerical investigation of Rayleigh nanoparticlesensing using a whispering-gallery-mode resonator. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2897.	2.1	2
48	An open-source, accurate, and iterative calibration method for liquid-crystal-based spatial light modulators. Optics Communications, 2021, 495, 127108.	2.1	2
49	Nanoparticle sensing using whispering-gallery-mode resonators: Plasmonic and Rayleigh scatterers. , 2012, , .		1
50	Deep subwavelength optical imaging using correlated nano-torches. Applied Physics Letters, 2013, 103, 201119.	3.3	1
51	Bit-efficient sub-millisecond wavefront measurement using a lock-in camera for time-reversal based optical focusing inside scattering media (Conference Presentation). , 2016, , .		1
52	Using phase-change materials to switch the direction of reflectionless light propagation in non-PT-symmetric structures. , 2018, , .		1
53	Switching between singular points in non-PT-symmetric multilayer structures using phase-change materials. Optics Express, 2021, 29, 454.	3.4	1
54	Statistically driven model for efficient analysis of few-photon transport in waveguide quantum electrodynamics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 420.	2.1	1

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55	Optical focusing through biological tissue and tissue-mimicking phantoms up to 9.6 centimeters thick with digital optical phase conjugation. Proceedings of SPIE, 2017, , .	0.8	0
56	Switching between singular points and exceptional-point-enhanced sensing in non-Hermitian photonic structures. , 2021, , .		0
57	Single-photon diode by exploiting the photon polarization in a waveguide. , 2012, , .		0
58	Deep subwavelength imaging using multiple correlated narrow slits. , 2014, , .		0
59	Focusing light inside dynamic scattering media with millisecond digital optical phase conjugation (Conference Presentation). , 2017, , .		0
60	Non-PT-symmetric Two-layer Waveguides for Exceptional-point-enhanced Optical Devices. , 2020, , .		0