Yan Liu

List of Publications by Year
in descending order

38 papers	1,520 citations	331670 21 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	1362 citing authors

#	Article	IF	Citations
1	Wavefront shaping with disorder-engineered metasurfaces. Nature Photonics, 2018, 12, 84-90.	31.4	205
2	Optical focusing deep inside dynamic scattering media with near-infrared time-reversed ultrasonically encoded (TRUE) light. Nature Communications, 2015, 6, 5904.	12.8	156
3	Focusing light inside dynamic scattering media with millisecond digital optical phase conjugation. Optica, 2017, 4, 280.	9.3	127
4	Time-reversed adapted-perturbation (TRAP) optical focusing onto dynamic objects inside scattering media. Nature Photonics, 2014, 8, 931-936.	31.4	119
5	Effects of light scattering on optical-resolution photoacoustic microscopy. Journal of Biomedical Optics, 2012, 17, 126014.	2.6	64
6	Single-cell photoacoustic thermometry. Journal of Biomedical Optics, 2013, 18, 026003.	2.6	60
7	Deep tissue optical focusing and optogenetic modulation with time-reversed ultrasonically encoded light. Science Advances, 2017, 3, eaao5520.	10.3	60
8	Focusing light through scattering media by full-polarization digital optical phase conjugation. Optics Letters, 2016, 41, 1130.	3.3	59
9	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
10	In vivo study of optical speckle decorrelation time across depths in the mouse brain. Biomedical Optics Express, 2017, 8, 4855.	2.9	52
11	Focusing light through scattering media by transmission matrix inversion. Optics Express, 2017, 25, 27234.	3.4	51
12	Calibration-free quantification of absolute oxygen saturation based on the dynamics of photoacoustic signals. Optics Letters, 2013, 38, 2800.	3.3	50
13	Cone photoreceptor dysfunction in retinitis pigmentosa revealed by optoretinography. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	45
14	Single-exposure optical focusing inside scattering media using binarized time-reversed adapted perturbation. Optica, 2015, 2, 869.	9.3	42
15	Focusing light through scattering media by polarization modulation based generalized digital optical phase conjugation. Applied Physics Letters, 2017, 111, 201108.	3.3	40
16	Focusing light inside scattering media with magnetic-particle-guided wavefront shaping. Optica, 2017, 4, 1337.	9.3	40
17	Fluorescence imaging through dynamic scattering media with speckle-encoded ultrasound-modulated light correlation. Nature Photonics, 2020, 14, 511-516.	31.4	38
18	Quantitative evaluation of scattering in optical coherence tomography skin images using the extended Huygensâ€“Fresnel theorem. Applied Optics, 2013, 52, 1574.	1.8	37

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19	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
20	Sub-Nyquist sampling boosts targeted light transport through opaque scattering media. Optica, 2017, 4, 97.	9.3	27
21	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
22	Lock-in camera based heterodyne holography for ultrasound-modulated optical tomography inside dynamic scattering media. Applied Physics Letters, 2016, 108, 231106.	3.3	22
23	Quantitative blood flow estimation in vivo by optical speckle image velocimetry. Optica, 2021, 8, 1092.	9.3	21
24	Self-Fluence-Compensated Functional Photoacoustic Microscopy. IEEE Transactions on Medical Imaging, 2021, 40, 3856-3866.	8.9	14
25	Photobleaching imprinting microscopy: seeing clearer and deeper. Journal of Cell Science, 2013, 127, 288-94.	2.0	12
26	High-speed single-shot optical focusing through dynamic scattering media with full-phase wavefront shaping. Applied Physics Letters, 2017, 111, 221109.	3.3	12
27	Fighting against Fast Speckle Decorrelation for Light Focusing inside Live Tissue by Photon Frequency Shifting. ACS Photonics, 2020, 7, 837-844.	6.6	11
28	Imaging through highly scattering human skulls with ultrasound-modulated optical tomography. Optics Letters, 2020, 45, 2973.	3.3	11
29	Time-reversed ultrasonically encoded optical focusing through highly scattering ex vivo human cataractous lenses. Journal of Biomedical Optics, 2018, 23, 1.	2.6	10
30	Investigating ultrasoundâ€“light interaction in scattering media. Journal of Biomedical Optics, 2020, 25, 1.	2.6	9
31	Optical sectioning by wide-field photobleaching imprinting microscopy. Applied Physics Letters, 2013, 103, 183703.	3.3	8
32	High-speed time-reversed ultrasonically encoded (TRUE) optical focusing inside dynamic scattering media at 793 nm. , 2014, , .		2
33	High-Speed Time-Reversed Ultrasonically Encoded (TRUE) Optical Focusing in Dynamic Scattering Media at 793 nm. , 2014, , .		2
34	An open-source, accurate, and iterative calibration method for liquid-crystal-based spatial light modulators. Optics Communications, 2021, 495, 127108.	2.1	2
35	Quantitative blood flow estimation in vivo by optical speckle image velocimetry: publisherâ€™s note. Optica, 2021, 8, 1326.	9.3	2
36	Sub-diffraction-limited imaging by photobleaching imprinting microscopy. , 2014, , .		0

#	Article	IF	Citations
37	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
38	Time-reversed ultrasonically encoded (TRUE) focusing for deep-tissue optogenetic modulation. , 2018, , .		0