Wenxuan Liang

List of Publications by Year
in descending order

34 papers	956 citations	516710 16 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	1347 citing authors

#	Article	IF	Citations
1	Real-time volumetric microscopy of in vivo dynamics and large-scale samples with SCAPE 2.0. Nature Methods, 2019, 16, 1054-1062.	19.0	222
2	Nonlinear optical endomicroscopy for label-free functional histology in vivo. Light: Science and Applications, 2017, 6, e17082-e17082.	16.6	100
3	Robust and fast characterization of OCT-based optical attenuation using a novel frequency-domain algorithm for brain cancer detection. Scientific Reports, 2017, 7, 44909.	3.3	64
4	Optimal operational conditions for supercontinuum-based ultrahigh-resolution endoscopic OCT imaging. Optics Letters, 2016, 41, 250.	3.3	57
5	MEMS-based 3D confocal scanning microendoscope using MEMS scanners for both lateral and axial scan. Sensors and Actuators A: Physical, 2014, 215, 89-95.	4.1	55
6	Diffractive catheter for ultrahigh-resolution spectral-domain volumetric OCT imaging. Optics Letters, 2014, 39, 2016.	3.3	52
7	Increased illumination uniformity and reduced photodamage offered by the Lissajous scanning in fiber-optic two-photon endomicroscopy. Journal of Biomedical Optics, 2012, 17, 021108.	2.6	45
8	Endoscopic forward-viewing optical coherence tomography and angiography with MHz swept source. Optics Letters, 2017, 42, 3193.	3.3	34
9	High-speed light-sheet microscopy for the in-situ acquisition of volumetric histological images of living tissue. Nature Biomedical Engineering, 2022, 6, 569-583.	22.5	28
10	High-speed, ultrahigh-resolution distal scanning OCT endoscopy at 800 nm for in vivo imaging of colon tumorigenesis on murine models. Biomedical Optics Express, 2018, 9, 3731.	2.9	27
11	Twist-free ultralight two-photon fiberscope enabling neuroimaging on freely rotating/walking mice. Optica, 2021, 8, 870.	9.3	25
12	Superâ€achromatic optical coherence tomography capsule for ultrahighâ€resolution imaging of esophagus. Journal of Biophotonics, 2019, 12, e201800205.	2.3	24
13	Automatic and robust segmentation of endoscopic OCT images and optical staining. Biomedical Optics Express, 2017, 8, 2697.	2.9	21
14	A biopsyâ€needle compatible varifocal multiphoton rigid probe for depthâ€resolved optical biopsy. Journal of Biophotonics, 2019, 12, e201800229.	2.3	20
15	Low-cost, ultracompact handheld optical coherence tomography probe for in vivo oral maxillofacial tissue imaging. Journal of Biomedical Optics, 2020, 25, 1.	2.6	19
16	Throughput-Speed Product Augmentation for Scanning Fiber-Optic Two-Photon Endomicroscopy. IEEE Transactions on Medical Imaging, 2020, 39, 3779-3787.	8.9	17
17	Gold nanocages as contrast agents for two-photon luminescence endomicroscopy imaging. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1267-1270.	3.3	16
18	Focus scanning with feedback-control for fiber-optic nonlinear endomicroscopy. Biomedical Optics Express, 2017, 8, 2519.	2.9	16

#	Article	IF	Citations
19	Multicolor fiber-optic two-photon endomicroscopy for brain imaging. Optics Letters, 2021, 46, 1093.	3.3	13
20	Spectro-temporal dispersion management of femtosecond pulses for fiber-optic two-photon endomicroscopy. Optics Express, 2018, 26, 22877.	3.4	11
21	Robust, accurate depth-resolved attenuation characterization in optical coherence tomography. Biomedical Optics Express, 2020, 11, 672.	2.9	9
22	Optimized implementation of the FDK algorithm on one digital signal processor. Tsinghua Science and Technology, 2010, 15, 108-113.	6.1	6
23	Fitting-free algorithm for efficient quantification of collagen fiber alignment in SHG imaging applications. Biomedical Optics Express, 2017, 8, 4609.	2.9	6
24	Generic pixel-wise speckle detection in Fourier-domain optical coherence tomography images. Optics Letters, 2014, 39, 4392.	3.3	5
25	Signal-to-noise ratio analysis and improvement for fluorescence tomography imaging. Review of Scientific Instruments, 2018, 89, 093114.	1.3	4
26	An electrothermal/electrostatic dual driven MEMS scanner with large in-plane and out-of-plane displacement. , 2013, , .		3
27	Real-time Fluorescence Lifetime Imaging by a Fiber-optic Two-photon Endomicroscopy System. , 2016, , .		1
28	MesoSCAPE - Highspeed Functional Volumetric Imaging of Multi-millimeter Biological Sample with Cellular Resolution. , 2022, , .		1
29	Nonlinear optical fiber endomicroscopy towards clinical applications. , 2012, , .		0
30	Scanning fiber-optic nonlinear endomicroscopy for in vivo histology. , 2015, , .		0
31	Broadband rotary joint for high speed ultrahigh resolution endoscopic OCT imaging (Conference) Tj ETQq1 1 0.784314 rgBT /Overloc		0
32	Nonlinear Endomicroscopy Imaging Technology for Translational Applications. , 2014, , 281-303.		0
33	In vivo Airway Imaging with High-speed Ultrahigh-resolution Endoscopic OCT. , 2016, , .		0
34	Miniaturized MediSCAPE microscopy for label-free, real-time volumetric histological imaging at the point of care. , 2022, , .		0