

Xuan Liu

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,148
citations

331259

21
h-index

395343

33
g-index

70
all docs

70
docs citations

70
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	Miniature fiber-optic force sensor based on low-coherence Fabry-Pérot interferometry for vitreoretinal microsurgery. <i>Biomedical Optics Express</i> , 2012, 3, 1062.	1.5	91
2	Compressive SD-OCT: the application of compressed sensing in spectral domain optical coherence tomography. <i>Optics Express</i> , 2010, 18, 22010.	1.7	84
3	Noise adaptive wavelet thresholding for speckle noise removal in optical coherence tomography. <i>Biomedical Optics Express</i> , 2017, 8, 2720.	1.5	68
4	Distortion-free freehand-scanning OCT implemented with real-time scanning speed variance correction. <i>Optics Express</i> , 2012, 20, 16567.	1.7	57
5	Endoscopic Functional Fourier Domain Common-Path Optical Coherence Tomography for Microsurgery. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 781-792.	1.9	56
6	Real-time 3D and 4D Fourier domain Doppler optical coherence tomography based on dual graphics processing units. <i>Biomedical Optics Express</i> , 2012, 3, 2162.	1.5	56
7	Fiber-Optic Force Sensors for MRI-Guided Interventions and Rehabilitation: A Review. <i>IEEE Sensors Journal</i> , 2017, 17, 1952-1963.	2.4	54
8	Towards automatic calibration of Fourier-Domain OCT for robot-assisted vitreoretinal surgery. <i>Optics Express</i> , 2010, 18, 24331.	1.7	51
9	Snapshot spatial-temporal compressive imaging. <i>Optics Letters</i> , 2020, 45, 1659.	1.7	44
10	Motion-compensated hand-held common-path Fourier-domain optical coherence tomography probe for image-guided intervention. <i>Biomedical Optics Express</i> , 2012, 3, 3105.	1.5	43
11	Quantitative optical coherence elastography based on fiber-optic probe for in situ measurement of tissue mechanical properties. <i>Biomedical Optics Express</i> , 2016, 7, 688.	1.5	41
12	Quantitative transverse flow measurement using optical coherence tomography speckle decorrelation analysis. <i>Optics Letters</i> , 2013, 38, 805.	1.7	37
13	Spectroscopic-speckle variance OCT for microvasculature detection and analysis. <i>Biomedical Optics Express</i> , 2011, 2, 2995.	1.5	35
14	Common-path Optical Coherence Tomography for Biomedical Imaging and Sensing. <i>Journal of the Optical Society of Korea</i> , 2010, 14, 1-13.	0.6	32
15	Activities of multiple cancer-related pathways are associated with <i>BRAF</i> mutation and predict the resistance to BRAF/MEK inhibitors in melanoma cells. <i>Cell Cycle</i> , 2014, 13, 208-219.	1.3	31
16	Nonlinear characterization of elasticity using quantitative optical coherence elastography. <i>Biomedical Optics Express</i> , 2016, 7, 4702.	1.5	29
17	Snapshot temporal compressive microscopy using an iterative algorithm with untrained neural networks. <i>Optics Letters</i> , 2021, 46, 1888.	1.7	28
18	Signal-to-noise ratio analysis of all-fiber common-path optical coherence tomography. <i>Applied Optics</i> , 2008, 47, 4833.	2.1	27

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19	Dark-field illuminated reflectance fiber bundle endoscopic microscope. <i>Journal of Biomedical Optics</i> , 2011, 16, 1.	1.4	26
20	Robust motion tracking based on adaptive speckle decorrelation analysis of OCT signal. <i>Biomedical Optics Express</i> , 2015, 6, 4302.	1.5	22
21	Optically computed optical coherence tomography for volumetric imaging. <i>Optics Letters</i> , 2020, 45, 1675.	1.7	21
22	Motion analysis and removal in intensity variation based OCT angiography. <i>Biomedical Optics Express</i> , 2014, 5, 3833.	1.5	19
23	RGD-conjugated two-photon absorbing near-IR emitting fluorescent probes for tumor vasculature imaging. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10716-10725.	1.5	19
24	Depth-Resolved Blood Oxygen Saturation Assessment Using Spectroscopic Common-Path Fourier Domain Optical Coherence Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2572-2575.	2.5	15
25	Iterative l_1 -min algorithm for fixed pattern noise removal in fiber-bundle-based endoscopic imaging. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 630.	0.8	14
26	Optimization of an angled fiber probe for common-path optical coherence tomography. <i>Optics Letters</i> , 2013, 38, 2660.	1.7	13
27	Optical coherence tomography scanning with a handheld vitreoretinal micromanipulator. , 2012, 2012, 948-51.		12
28	Robust spectral-domain optical coherence tomography speckle model and its cross-correlation coefficient analysis. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 51.	0.8	12
29	Temporally and spatially adaptive Doppler analysis for robust handheld optical coherence elastography. <i>Biomedical Optics Express</i> , 2018, 9, 3335.	1.5	9
30	High-definition optical coherence tomography imaging for noninvasive examination of heritage works. <i>Applied Optics</i> , 2016, 55, 10313.	2.1	8
31	Spectral 3D reconstruction of impressionist oil paintings based on macroscopic OCT imaging. <i>Applied Optics</i> , 2020, 59, 4733.	0.9	8
32	Spatial coordinate corrected motion tracking for optical coherence elastography. <i>Biomedical Optics Express</i> , 2019, 10, 6160.	1.5	8
33	Improvement of optical coherence tomography using active handheld micromanipulator in vitreoretinal surgery. , 2013, 2013, 5674-7.		7
34	Secure fingerprint identification based on structural and microangiographic optical coherence tomography. <i>Applied Optics</i> , 2017, 56, 2255.	2.1	7
35	Quantitative characterization of human breast tissue based on deep learning segmentation of 3D optical coherence tomography images. <i>Biomedical Optics Express</i> , 2021, 12, 2647.	1.5	7
36	Real-time deep learning assisted skin layer delineation in dermal optical coherence tomography. <i>OSA Continuum</i> , 2021, 4, 2008.	1.8	7

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37	Sparse OCT: optimizing compressed sensing in spectral domain optical coherence tomography. Proceedings of SPIE, 2011, 7904, .	0.8	6
38	Manually scanned single fiber optical coherence tomography for skin cancer characterization. Scientific Reports, 2021, 11, 15570.	1.6	6
39	A BODIPY-Based Far-Red-Absorbing Fluorescent Probe for Hypochlorous Acid Imaging. ChemPhotoChem, 0, , .	1.5	6
40	Progress toward inexpensive endoscopic high-resolution common-path OCT. , 2010, , .		4
41	Automatic online spectral calibration of Fourier-domain OCT for robotic surgery. , 2011, 7890, .		4
42	Quantitative Optical Coherence Elastography for Robust Stiffness Assessment. Applied Sciences (Switzerland), 2018, 8, 1255.	1.3	4
43	Fiber-optic Fourier-Domain Common-Path OCT. , 2008, , .		3
44	Optically computed phase microscopy for quantitative dynamic imaging of label-free cells and nanoparticles. Biomedical Optics Express, 2022, 13, 514.	1.5	3
45	Miniature fiber-optic force sensor for vitreoretinal microsurgery based on low-coherence Fabry-Pérot interferometry. Proceedings of SPIE, 2012, 8218, 82180O.	0.8	2
46	Assessment and removal of additive noise in a complex optical coherence tomography signal based on Doppler variation analysis. Applied Optics, 2018, 57, 2873.	0.9	2
47	Line field Fourier domain optical coherence tomography based on a spatial light modulator. Applied Optics, 2021, 60, 985.	0.9	2
48	Adaptive Wavelet Thresholding for Optical Coherence Tomography Image Denoising. , 2017, , .		2
49	OCE quantification of Poisson's ratio through 2D speckle tracking. , 2019, 10880, .		2
50	Internal limiting membrane layer visualization and vitreoretinal surgery guidance using a common-path OCT integrated microsurgical tool. Proceedings of SPIE, 2010, , .	0.8	1
51	Optical coherence tomography for non-invasive examination and conservation of cultural heritage objects. Proceedings of SPIE, 2017, , .	0.8	1
52	Adaptive Doppler analysis for robust handheld optical coherence elastography. , 2019, 10880, .		1
53	Single fiber OCT imager for breast tissue classification based on deep learning. , 2020, 11233, .		1
54	Common-path fourier-domain optical coherence tomography in ophthalmology applications. , 2009, , .		0

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55	Fourier domain common-path optical coherence tomography with a conduit fiber bundle probe. , 2009, , .		0
56	High resolution hemoglobin oxygen saturation level imaging using Morlet wavelet transformed spectroscopic Optical Coherence Tomography. , 2010, , .		0
57	Freehand OCT with real-time lateral motion tracking. , 2013, , .		0
58	Motion-compensated hand-held common-path Fourier-domain optical coherence tomography probe for image-guided intervention. Proceedings of SPIE, 2013, , .	0.8	0
59	Quantitative transverse flow assessment using OCT speckle decorrelation analysis. , 2013, , .		0
60	Tracking both magnitude and direction of 2-D transverse motion with optical coherence tomography. , 2014, , .		0
61	Reference optimization for a common-path optical coherence tomography probe using angle polishing. Proceedings of SPIE, 2014, , .	0.8	0
62	Motion analysis and removal in intensity variation based OCT microangiography. Proceedings of SPIE, 2015, , .	0.8	0
63	Characterization of nonlinear elasticity for biological tissue using quantitative optical coherence elastography. , 2017, , .		0
64	Intelligent optical computation for online optical signal processing. , 2019, 2019, .		0
65	Depth resolved optical coherence elastography based on fiber-optic probe with integrated Fabry-Perot force sensor. , 2016, , .		0
66	Ultrathin fiber optic probe for OCT imaging. , 2016, , .		0
67	Robust stiffness quantification using quantitative optical coherence elastography. , 2017, , .		0
68	Wavelet tree structure based speckle noise removal for optical coherence tomography. , 2018, , .		0
69	Spatial coordinate corrected motion tracking for optical coherence elastography. , 2020, 11242, .		0
70	Spectral 3D reconstruction of impressionist oil painting based on macroscopic OCT imaging. , 2020, , .		0