

# Shang Wang

## List of Publications by Year in descending order

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37  
papers

1,768  
citations

304743

22  
h-index

345221

36  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear wave imaging optical coherence tomography (SWI-OCT) for ocular tissue biomechanics. Optics Letters, 2014, 39, 41.	3.3	205
2	Optical coherence elastography for tissue characterization: a review. Journal of Biophotonics, 2015, 8, 279-302.	2.3	199
3	Noncontact depth-resolved micro-scale optical coherence elastography of the cornea. Biomedical Optics Express, 2014, 5, 3807.	2.9	148
4	A focused air-pulse system for optical-coherence-tomography-based measurements of tissue elasticity. Laser Physics Letters, 2013, 10, 075605.	1.4	146
5	Noncontact measurement of elasticity for the detection of soft-tissue tumors using phase-sensitive optical coherence tomography combined with a focused air-puff system. Optics Letters, 2012, 37, 5184.	3.3	95
6	Noncontact quantitative biomechanical characterization of cardiac muscle using shear wave imaging optical coherence tomography. Biomedical Optics Express, 2014, 5, 1980.	2.9	94
7	Assessing Age-Related Changes in the Biomechanical Properties of Rabbit Lens Using a Coaligned Ultrasound and Optical Coherence Elastography System. Investigative Ophthalmology and Visual Science, 2015, 56, 1292-1300.	3.3	93
8	Quantitative assessment of corneal viscoelasticity using optical coherence elastography and a modified Rayleigh-Lamb equation. Journal of Biomedical Optics, 2015, 20, 020501.	2.6	84
9	Direct four-dimensional structural and functional imaging of cardiovascular dynamics in mouse embryos with 15-MHz optical coherence tomography. Optics Letters, 2015, 40, 4791.	3.3	57
10	Estimation of shear wave velocity in gelatin phantoms utilizing PhS-SSOCT. Laser Physics, 2012, 22, 1439-1444.	1.2	49
11	Improved Angiogenesis in Response to Localized Delivery of Macrophage-Recruiting Molecules. PLoS ONE, 2015, 10, e0131643.	2.5	43
12	In vivo micro-scale tomography of ciliary behavior in the mammalian oviduct. Scientific Reports, 2015, 5, 13216.	3.3	41
13	Noncontact Elastic Wave Imaging Optical Coherence Elastography for Evaluating Changes in Corneal Elasticity Due to Crosslinking. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 266-276.	2.9	41
14	NADPH oxidase mediates microtubule alterations and diaphragm dysfunction in dystrophic mice. ELife, 2018, 7, .	6.0	40
15	Live four-dimensional optical coherence tomography reveals embryonic cardiac phenotype in mouse mutant. Journal of Biomedical Optics, 2015, 20, 1.	2.6	35
16	Three-dimensional computational analysis of optical coherence tomography images for the detection of soft tissue sarcomas. Journal of Biomedical Optics, 2013, 19, 021102.	2.6	31
17	<i>In vivo</i> three-dimensional tracking of sperm behaviors in the mouse oviduct. Development (Cambridge), 2018, 145, .	2.5	30
18	High-resolution three-dimensional in vivo imaging of mouse oviduct using optical coherence tomography. Biomedical Optics Express, 2015, 6, 2713.	2.9	29

#	ARTICLE	IF	CITATIONS
19	Biomechanical assessment of myocardial infarction using optical coherence elastography. <i>Biomedical Optics Express</i> , 2018, 9, 728.	2.9	29
20	Label-free optical imaging in developmental biology [Invited]. <i>Biomedical Optics Express</i> , 2020, 11, 2017.	2.9	29
21	Assessing the mechanical properties of tissue-mimicking phantoms at different depths as an approach to measure biomechanical gradient of crystalline lens. <i>Biomedical Optics Express</i> , 2013, 4, 2769.	2.9	27
22	Dynamic imaging and quantitative analysis of cranial neural tube closure in the mouse embryo using optical coherence tomography. <i>Biomedical Optics Express</i> , 2017, 8, 407.	2.9	27
23	Four-dimensional live imaging of hemodynamics in mammalian embryonic heart with Doppler optical coherence tomography. <i>Journal of Biophotonics</i> , 2016, 9, 837-847.	2.3	23
24	Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. <i>IEEE Sensors Journal</i> , 2013, 13, 4534-4541.	4.7	20
25	Optical coherence tomography guided microinjections in live mouse embryos: high-resolution targeted manipulation for mouse embryonic research. <i>Journal of Biomedical Optics</i> , 2015, 20, 1.	2.6	20
26	In vivo dynamic 3D imaging of oocytes and embryos in the mouse oviduct. <i>Cell Reports</i> , 2021, 36, 109382.	6.4	19
27	Speckle variance optical coherence tomography of blood flow in the beating mouse embryonic heart. <i>Journal of Biophotonics</i> , 2017, 10, 735-743.	2.3	18
28	Live imaging of developing mouse retinal slices. <i>Neural Development</i> , 2018, 13, 23.	2.4	15
29	Prolonged in vivo functional assessment of the mouse oviduct using optical coherence tomography through a dorsal imaging window. <i>Journal of Biophotonics</i> , 2018, 11, e201700316.	2.3	14
30	Optical coherence tomography as a tool for real-time visual feedback and biomechanical assessment of dermal filler injections: preliminary results in a pig skin model. <i>Experimental Dermatology</i> , 2016, 25, 475-476.	2.9	13
31	Algorithms for improved 3-D reconstruction of live mammalian embryo vasculature from optical coherence tomography data. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 125-35.	2.0	13
32	In Vivo Imaging of the Mouse Reproductive Organs, Embryo Transfer, and Oviduct Cilia Dynamics Using Optical Coherence Tomography. <i>Methods in Molecular Biology</i> , 2018, 1752, 53-62.	0.9	10
33	Staging mouse preimplantation development in vivo using optical coherence microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800364.	2.3	9
34	Embryonic Mouse Cardiodynamic OCT Imaging. <i>Journal of Cardiovascular Development and Disease</i> , 2020, 7, 42.	1.6	9
35	Live mechanistic assessment of localized cardiac pumping in mammalian tubular embryonic heart. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	9
36	Optogenetic cardiac pacing in cultured mouse embryos under imaging guidance. <i>Journal of Biophotonics</i> , 2020, 13, e202000223.	2.3	3

#	ARTICLE	IF	CITATIONS
37	Development of optical sensor for soft tissue sarcoma boundary detection using optical coherence elastography. , 2014, , .		1