

Irina V Larina

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,483
citations

257450

24
h-index

330143

37
g-index

64
all docs

64
docs citations

64
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncontact quantitative biomechanical characterization of cardiac muscle using shear wave imaging optical coherence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 1980.	2.9	94
2	Live imaging of blood flow in mammalian embryos using Doppler swept-source optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2008, 13, 060506.	2.6	93
3	Hemodynamic measurements from individual blood cells in early mammalian embryos with Doppler swept source OCT. <i>Optics Letters</i> , 2009, 34, 986.	3.3	92
4	A Membrane Associated mCherry Fluorescent Reporter Line for Studying Vascular Remodeling and Cardiac Function During Murine Embryonic Development. <i>Anatomical Record</i> , 2009, 292, 333-341.	1.4	72
5	Optical coherence tomography for high-resolution imaging of mouse development in utero. <i>Journal of Biomedical Optics</i> , 2011, 16, 046004.	2.6	60
6	Direct four-dimensional structural and functional imaging of cardiovascular dynamics in mouse embryos with 15â€‰MHz optical coherence tomography. <i>Optics Letters</i> , 2015, 40, 4791.	3.3	57
7	Sequential Turning Acquisition and Reconstruction (STAR) method for four-dimensional imaging of cyclically moving structures. <i>Biomedical Optics Express</i> , 2012, 3, 650.	2.9	53
8	Vascular development and hemodynamic force in the mouse yolk sac. <i>Frontiers in Physiology</i> , 2014, 5, 308.	2.8	53
9	LIVE IMAGING OF EARLY DEVELOPMENTAL PROCESSES IN MAMMALIAN EMBRYOS WITH OPTICAL COHERENCE TOMOGRAPHY. <i>Journal of Innovative Optical Health Sciences</i> , 2009, 02, 253-259.	1.0	46
10	Improved Angiogenesis in Response to Localized Delivery of Macrophage-Recruiting Molecules. <i>PLoS ONE</i> , 2015, 10, e0131643.	2.5	43
11	Optical Coherence Tomography for live imaging of mammalian development. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 579-584.	3.3	42
12	In vivo micro-scale tomography of ciliary behavior in the mammalian oviduct. <i>Scientific Reports</i> , 2015, 5, 13216.	3.3	41
13	4D Reconstruction of the Beating Embryonic Heart From Two Orthogonal Sets of Parallel Optical Coherence Tomography Slice-Sequences. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 578-588.	8.9	40
14	SMAD Signaling Is Required for Structural Integrity of the Female Reproductive Tract and Uterine Function During Early Pregnancy in Mice. <i>Biology of Reproduction</i> , 2016, 95, 44-44.	2.7	40
15	NADPH oxidase mediates microtubule alterations and diaphragm dysfunction in dystrophic mice. <i>ELife</i> , 2018, 7, .	6.0	40
16	Live imaging of rat embryos with Doppler swept-source optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2009, 14, 050506.	2.6	37
17	Multiple-cardiac-cycle noise reduction in dynamic optical coherence tomography of the embryonic heart and vasculature. <i>Optics Letters</i> , 2009, 34, 3704.	3.3	35
18	Live four-dimensional optical coherence tomography reveals embryonic cardiac phenotype in mouse mutant. <i>Journal of Biomedical Optics</i> , 2015, 20, 1.	2.6	35

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19	<i>In vivo</i> three-dimensional tracking of sperm behaviors in the mouse oviduct. <i>Development</i> (Cambridge), 2018, 145, .	2.5	30
20	High-resolution three-dimensional in vivo imaging of mouse oviduct using optical coherence tomography. <i>Biomedical Optics Express</i> , 2015, 6, 2713.	2.9	29
21	Biomechanical assessment of myocardial infarction using optical coherence elastography. <i>Biomedical Optics Express</i> , 2018, 9, 728.	2.9	29
22	Label-free optical imaging in developmental biology [Invited]. <i>Biomedical Optics Express</i> , 2020, 11, 2017.	2.9	29
23	Optical coherence tomography for live phenotypic analysis of embryonic ocular structures in mouse models. <i>Journal of Biomedical Optics</i> , 2012, 17, 081410.	2.6	28
24	Characterization of bacterial artificial chromosome transgenic mice expressing mCherry fluorescent protein substituted for the murine smooth muscle α -actin gene. <i>Genesis</i> , 2010, 48, 457-463.	1.6	27
25	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
26	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
27	Applicability, usability, and limitations of murine embryonic imaging with optical coherence tomography and optical projection tomography. <i>Biomedical Optics Express</i> , 2016, 7, 2295.	2.9	23
28	Increasing the field-of-view of dynamic cardiac OCT via post-acquisition mosaicing without affecting frame-rate or spatial resolution. <i>Biomedical Optics Express</i> , 2011, 2, 2614.	2.9	21
29	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
30	Rotational imaging optical coherence tomography for full-body mouse embryonic imaging. <i>Journal of Biomedical Optics</i> , 2016, 21, 1.	2.6	19
31	In vivo dynamic 3D imaging of oocytes and embryos in the mouse oviduct. <i>Cell Reports</i> , 2021, 36, 109382.	6.4	19
32	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
33	Imaging Mouse Embryonic Cardiovascular Development. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.top071498.	0.3	17
34	Comparison and combination of rotational imaging optical coherence tomography and selective plane illumination microscopy for embryonic study. <i>Biomedical Optics Express</i> , 2017, 8, 4629.	2.9	16
35	Live imaging of developing mouse retinal slices. <i>Neural Development</i> , 2018, 13, 23.	2.4	15
36	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

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37	Algorithms for improved 3-D reconstruction of live mammalian embryo vasculature from optical coherence tomography data. Quantitative Imaging in Medicine and Surgery, 2015, 5, 125-35.	2.0	13
38	Live Confocal Microscopy of the Developing Mouse Embryonic Yolk Sac Vasculature. Methods in Molecular Biology, 2015, 1214, 163-172.	0.9	11
39	In Vivo Imaging of the Mouse Reproductive Organs, Embryo Transfer, and Oviduct Cilia Dynamics Using Optical Coherence Tomography. Methods in Molecular Biology, 2018, 1752, 53-62.	0.9	10
40	Staging mouse preimplantation development in vivo using optical coherence microscopy. Journal of Biophotonics, 2019, 12, e201800364.	2.3	9
41	Embryonic Mouse Cardiodynamic OCT Imaging. Journal of Cardiovascular Development and Disease, 2020, 7, 42.	1.6	9
42	Imaging of Cardiovascular Development in Mammalian Embryos Using Optical Coherence Tomography. Methods in Molecular Biology, 2015, 1214, 151-161.	0.9	9
43	Live mechanistic assessment of localized cardiac pumping in mammalian tubular embryonic heart. Journal of Biomedical Optics, 2020, 25, 1.	2.6	9
44	Ultra-fast dynamic line-field optical coherence elastography. Optics Letters, 2021, 46, 4742.	3.3	8
45	Second harmonic generation microscopy of early embryonic mouse hearts. Biomedical Optics Express, 2019, 10, 2898.	2.9	8
46	Dynamic Imaging of Mouse Embryos and Cardiac Development in Static Culture. Methods in Molecular Biology, 2021, 2206, 129-141.	0.9	4
47	Optogenetic cardiac pacing in cultured mouse embryos under imaging guidance. Journal of Biophotonics, 2020, 13, e202000223.	2.3	3
48	Dynamic volumetric imaging and cilia beat mapping in the mouse male reproductive tract with optical coherence tomography. Biomedical Optics Express, 2022, 13, 3672.	2.9	3
49	In Vivo Imaging of the Developing Mouse Embryonic Vasculature. Methods in Molecular Biology, 2012, 872, 205-215.	0.9	2
50	Comparison of rotational imaging optical coherence tomography and selective plane illumination microscopy for embryonic study. Proceedings of SPIE, 2016, , .	0.8	2
51	Development of optical sensor for soft tissue sarcoma boundary detection using optical coherence elastography. , 2014, , .		1
52	Live dynamic analysis of the developing cardiovascular system in mice. Proceedings of SPIE, 2017, , .	0.8	1
53	Dynamic Imaging of Mouse Embryos and Cardiodynamics in Static Culture. Methods in Molecular Biology, 2018, 1752, 41-52.	0.9	1
54	2021 JOSA A Emerging Researcher Best Paper Prize: editorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 0, , .	1.5	1

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55	Studying mammalian development with optical coherence tomography. , 2011, , .		0
56	Mouse embryo manipulations with OCT guidance. Proceedings of SPIE, 2014, , .	0.8	0
57	Back Cover: Four-dimensional live imaging of hemodynamics in mammalian embryonic heart with Doppler optical coherence tomography (J. Biophotonics 8/2016). Journal of Biophotonics, 2016, 9, .	2.3	0
58	Live 4D optical coherence tomography for early embryonic mouse cardiac phenotyping. , 2016, , .		0
59	2020 JOSA A Emerging Researcher Best Paper Prize: editorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, ED2.	1.5	0
60	Functional optical coherence tomography for live dynamic analysis of mouse embryonic cardiogenesis. , 2018, , .		0
61	Tracking spermatozoa movement toward the egg with functional optical coherence tomography. , 2022, , .		0