

# Raksha Raghunathan

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

616  
citations

759233

12  
h-index

839539

18  
g-index

24  
all docs

24  
docs citations

24  
times ranked

610  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical coherence elastography assessment of corneal viscoelasticity with a modified Rayleigh-Lamb wave model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 66, 87-94.	3.1	94
2	Quantitative methods for reconstructing tissue biomechanical properties in optical coherence elastography: a comparison study. <i>Physics in Medicine and Biology</i> , 2015, 60, 3531-3547.	3.0	83
3	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
4	Optical coherence tomography for embryonic imaging: a review. <i>Journal of Biomedical Optics</i> , 2016, 21, 1.	2.6	53
5	Evaluating biomechanical properties of murine embryos using Brillouin microscopy and optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	46
6	Tissue biomechanics during cranial neural tube closure measured by Brillouin microscopy and optical coherence tomography. <i>Birth Defects Research</i> , 2019, 111, 991-998.	1.5	43
7	Evaluating the Effects of Riboflavin/UV-A and Rose-Bengal/Green Light Cross-Linking of the Rabbit Cornea by Noncontact Optical Coherence Elastography. , 2016, 57, OCT112.		40
8	Quantifying tissue viscoelasticity using optical coherence elastography and the Rayleigh wave model. <i>Journal of Biomedical Optics</i> , 2016, 21, 090504.	2.6	38
9	Assessing the effects of riboflavin/UV-A crosslinking on porcine corneal mechanical anisotropy with optical coherence elastography. <i>Biomedical Optics Express</i> , 2017, 8, 349.	2.9	37
10	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
11	Ultra-fast line-field low coherence holographic elastography using spatial phase shifting. <i>Biomedical Optics Express</i> , 2017, 8, 993.	2.9	22
12	Evaluating the effects of maternal alcohol consumption on murine fetal brain vasculature using optical coherence tomography. <i>Journal of Biophotonics</i> , 2018, 11, e201700238.	2.3	19
13	Analysis of the effect of the fluid-structure interface on elastic wave velocity in cornea-like structures by OCE and FEM. <i>Laser Physics Letters</i> , 2016, 13, 035602.	1.4	16
14	Dose-response analysis of microvasculature changes in the murine fetal brain and the maternal extremities due to prenatal ethanol exposure. <i>Journal of Biomedical Optics</i> , 2020, 25, .	2.6	13
15	Assessing the acute effects of prenatal synthetic cannabinoid exposure on murine fetal brain vasculature using optical coherence tomography. <i>Journal of Biophotonics</i> , 2019, 12, e201900050.	2.3	11
16	Lorentz force optical coherence elastography. <i>Journal of Biomedical Optics</i> , 2016, 21, 1.	2.6	9
17	Can We Improve Vaginal Tissue Healing Using Customized Devices: 3D Printing and Biomechanical Changes in Vaginal Tissue. <i>Gynecologic and Obstetric Investigation</i> , 2019, 84, 145-153.	1.6	5
18	Optical coherence tomography angiography to evaluate murine fetal brain vasculature changes caused by prenatal exposure to nicotine. <i>Biomedical Optics Express</i> , 2020, 11, 3618.	2.9	5

#	ARTICLE	IF	CITATIONS
19	An intelligence augmented, label-free molecular imaging method for tissue identification, cancer diagnosis, and cancer margin detection. <i>Biomedical Optics Express</i> , 2021, 12, 5559-5582.	2.9	2
20	Live dynamic OCT imaging of cardiac structure and function in mouse embryos with 43 Hz direct volumetric data acquisition. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
21	Assessing the mechanical anisotropy and hysteresis while cycling IOP of porcine eyes before and after CXL by noncontact optical coherence elastography. , 2017, , .		0
22	Quantifying the effects of UV-A/riboflavin crosslinking on the elastic anisotropy and hysteresis of the porcine cornea by noncontact optical coherence elastography. , 2017, , .		0
23	In utero Optical Coherence Tomography to Evaluate Vasculature Changes in the Murine Embryonic Brain Due to Prenatal Alcohol and Nicotine exposure. , 2018, , .		0
24	Biomechanical Properties of Murine Embryos Using Optical Coherence Tomography and Brillouin Microscopy. , 2018, , .		0