

# Achuth Nair

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

511  
citations

623734

14  
h-index

794594

19  
g-index

27  
all docs

27  
docs citations

27  
times ranked

446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-sensitive optical coherence elastography at 15 million A-Lines per second. Optics Letters, 2015, 40, 2588.	3.3	94
2	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
3	Quantifying tissue viscoelasticity using optical coherence elastography and the Rayleigh wave model. Journal of Biomedical Optics, 2016, 21, 090504.	2.6	38
4	Assessing the effects of riboflavin/UV-A crosslinking on porcine corneal mechanical anisotropy with optical coherence elastography. Biomedical Optics Express, 2017, 8, 349.	2.9	37
5	Multimodal quantitative optical elastography of the crystalline lens with optical coherence elastography and Brillouin microscopy. Biomedical Optics Express, 2020, 11, 2041.	2.9	36
6	Confocal air-coupled ultrasonic optical coherence elastography probe for quantitative biomechanics. Optics Letters, 2020, 45, 6567.	3.3	28
7	Nanobomb optical coherence elastography. Optics Letters, 2018, 43, 2006.	3.3	27
8	Heartbeat OCE: corneal biomechanical response to simulated heartbeat pulsation measured by optical coherence elastography. Journal of Biomedical Optics, 2020, 25, 1.	2.6	26
9	Applicability, usability, and limitations of murine embryonic imaging with optical coherence tomography and optical projection tomography. Biomedical Optics Express, 2016, 7, 2295.	2.9	23
10	Ultra-fast line-field low coherence holographic elastography using spatial phase shifting. Biomedical Optics Express, 2017, 8, 993.	2.9	22
11	Heartbeat optical coherence elastography: corneal biomechanics in vivo. Journal of Biomedical Optics, 2021, 26, .	2.6	20
12	Compressional Optical Coherence Elastography of the Cornea. Photonics, 2021, 8, 111.	2.0	19
13	Optical coherence elastography of cold cataract in porcine lens. Journal of Biomedical Optics, 2019, 24, 1.	2.6	19
14	Dynamic Optical Coherence Elastography of the Anterior Eye: Understanding the Biomechanics of the Limbus. , 2020, 61, 7.		18
15	Applanation optical coherence elastography: noncontact measurement of intraocular pressure, corneal biomechanical properties, and corneal geometry with a single instrument. Journal of Biomedical Optics, 2017, 22, 1.	2.6	14
16	In vivo assessment of corneal biomechanics under a localized cross-linking treatment using confocal air-coupled optical coherence elastography. Biomedical Optics Express, 2022, 13, 2644.	2.9	14
17	Assessing colitis ex vivo using optical coherence elastography in a murine model. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1429-1440.	2.0	13
18	Ultra-fast dynamic line-field optical coherence elastography. Optics Letters, 2021, 46, 4742.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Elasticity Changes in the Crystalline Lens during Oxidative Damage and the Antioxidant Effect of Alpha-Lipoic Acid Measured by Optical Coherence Elastography. Photonics, 2021, 8, 207.	2.0	6
20	Multimodal Heartbeat and Compression Optical Coherence Elastography for Mapping Corneal Biomechanics. Frontiers in Medicine, 2022, 9, 833597.	2.6	5
21	Ultra-Fast Line-Field Optical Coherence Elastography at 11.5 MHz. , 2022, , .		2
22	Single-shot dynamic line-field optical coherence elastography at 11.5 MHz. , 2022, , .		1
23	Assessing the mechanical anisotropy and hysteresis while cycling IOP of porcine eyes before and after CXL by noncontact optical coherence elastography. , 2017, , .		0
24	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
25	Ultra-high speed OCT allows measurement of intraocular pressure, corneal geometry, and corneal stiffness using a single instrument. , 2018, , .		0
26	Quantitative Compression Elastography With an Uncalibrated Stress Sensor. Frontiers in Physics, 0, 10, .	2.1	0
27	In-vivo Assessment of Corneal Biomechanics Under Localized Cross-linking Treatment Using Wave-based Optical Coherence Elastography. , 2022, , .		0