

Brendan Geraghty

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7449769/publications.pdf>

Version: 2024-02-01

23
papers

687
citations

933447

10
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

680
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of age-related variation in corneal biomechanical properties. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1475-1485.	3.4	163
2	Regional variation in the biomechanical properties of the human sclera. <i>Experimental Eye Research</i> , 2010, 90, 624-633.	2.6	126
3	Age-related variations in the biomechanical properties of human sclera. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 16, 181-191.	3.1	104
4	Consideration of corneal biomechanics in the diagnosis and management of keratoconus: is it important?. <i>Eye and Vision (London, England)</i> , 2016, 3, 18.	3.0	59
5	Evaluation of the relationship of corneal biomechanical metrics with physical intraocular pressure and central corneal thickness in ex vivo rabbit eye globes. <i>Experimental Eye Research</i> , 2015, 137, 11-17.	2.6	49
6	Biomechanical properties of retina and choroid: a comprehensive review of techniques and translational relevance. <i>Eye</i> , 2021, 35, 1818-1832.	2.1	28
7	Clinical evaluation of a new correction algorithm for dynamic Scheimpflug analyzer tonometry before and after laser in situ keratomileusis and small-incision lenticule extraction. <i>Journal of Cataract and Refractive Surgery</i> , 2018, 44, 581-588.	1.5	22
8	Nanoscale characterization of the biomechanical properties of collagen fibrils in the sclera. <i>Applied Physics Letters</i> , 2014, 104, 103703.	3.3	19
9	Simulated optical performance of soft contact lenses on the eye. <i>PLoS ONE</i> , 2019, 14, e0216484.	2.5	14
10	Microscale assessment of corneal viscoelastic properties under physiological pressures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 100, 103375.	3.1	13
11	Inflation experiments and inverse finite element modelling of posterior human sclera. <i>Journal of Biomechanics</i> , 2020, 98, 109438.	2.1	12
12	A full-field 3D digital image correlation and modelling technique to characterise anterior cruciate ligament mechanics ex vivo. <i>Acta Biomaterialia</i> , 2020, 113, 417-428.	8.3	11
13	High intercorneal symmetry in corneal biomechanical metrics. <i>Eye and Vision (London, England)</i> , 2016, 3, 7.	3.0	10
14	Line-Field Optical Coherence Tomography as a tool for In vitro characterization of corneal biomechanics under physiological pressures. <i>Scientific Reports</i> , 2019, 9, 6321.	3.3	10
15	Repeatability of corneal elevation maps in keratoconus patients using the tomography matching method. <i>Scientific Reports</i> , 2017, 7, 17457.	3.3	9
16	Simulation of the Effect of Material Properties on Soft Contact Lens On-Eye Power. <i>Bioengineering</i> , 2019, 6, 94.	3.5	8
17	Effect of freezing and thawing on the biomechanical characteristics of porcine ocular tissues. <i>Journal of Biomechanics</i> , 2019, 87, 93-99.	2.1	7
18	Evaluating the repeatability of corneal elevation through calculating the misalignment between successive topography measurements during the follow up of LASIK. <i>Scientific Reports</i> , 2017, 7, 3122.	3.3	6

#	ARTICLE	IF	CITATIONS
19	Age-Related Variation in the Biomechanical and Structural Properties of the Corneo-Scleral Tunic. <i>Engineering Materials and Processes</i> , 2015, , 207-235.	0.4	5
20	Viscoelastic characteristics of the canine cranial cruciate ligament complex at slow strain rates. <i>PeerJ</i> , 2020, 8, e10635.	2.0	5
21	Macro- and Micro-mechanical Properties of the Ovine Aorta: Correlation with Regional Variations in Collagen, Elastin and Glycosaminoglycan Levels. <i>Artery Research</i> , 2019, 25, 27-36.	0.6	4
22	Compressive behaviour of soft contact lenses and its effect on refractive power on the eye and handling off the eye. <i>PLoS ONE</i> , 2021, 16, e0247194.	2.5	2
23	Role of Corneal Biomechanics in the Diagnosis and Management of Keratoconus. <i>Essentials in Ophthalmology</i> , 2017, , 141-150.	0.1	1