

Brendan Geraghty

List of Publications by Year in descending order

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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	Compressive behaviour of soft contact lenses and its effect on refractive power on the eye and handling off the eye. PLoS ONE, 2021, 16, e0247194.	2.5	2
2	Biomechanical properties of retina and choroid: a comprehensive review of techniques and translational relevance. Eye, 2021, 35, 1818-1832.	2.1	28
3	Inflation experiments and inverse finite element modelling of posterior human sclera. Journal of Biomechanics, 2020, 98, 109438.	2.1	12
4	A full-field 3D digital image correlation and modelling technique to characterise anterior cruciate ligament mechanics ex vivo. Acta Biomaterialia, 2020, 113, 417-428.	8.3	11
5	Viscoelastic characteristics of the canine cranial cruciate ligament complex at slow strain rates. PeerJ, 2020, 8, e10635.	2.0	5
6	Microscale assessment of corneal viscoelastic properties under physiological pressures. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 100, 103375.	3.1	13
7	Simulation of the Effect of Material Properties on Soft Contact Lens On-Eye Power. Bioengineering, 2019, 6, 94.	3.5	8
8	Line-Field Optical Coherence Tomography as a tool for In vitro characterization of corneal biomechanics under physiological pressures. Scientific Reports, 2019, 9, 6321.	3.3	10
9	Simulated optical performance of soft contact lenses on the eye. PLoS ONE, 2019, 14, e0216484.	2.5	14
10	Effect of freezing and thawing on the biomechanical characteristics of porcine ocular tissues. Journal of Biomechanics, 2019, 87, 93-99.	2.1	7
11	Macro- and Micro-mechanical Properties of the Ovine Aorta: Correlation with Regional Variations in Collagen, Elastin and Glycosaminoglycan Levels. Artery Research, 2019, 25, 27-36.	0.6	4
12	Clinical evaluation of a new correction algorithm for dynamic Scheimpflug analyzer tonometry before and after laser in situ keratomileusis and small-incision lenticule extraction. Journal of Cataract and Refractive Surgery, 2018, 44, 581-588.	1.5	22
13	Role of Corneal Biomechanics in the Diagnosis and Management of Keratoconus. Essentials in Ophthalmology, 2017, , 141-150.	0.1	1
14	Evaluating the repeatability of corneal elevation through calculating the misalignment between Successive topography measurements during the follow up of LASIK. Scientific Reports, 2017, 7, 3122.	3.3	6
15	Repeatability of corneal elevation maps in keratoconus patients using the tomography matching method. Scientific Reports, 2017, 7, 17457.	3.3	9
16	Consideration of corneal biomechanics in the diagnosis and management of keratoconus: is it important?. Eye and Vision (London, England), 2016, 3, 18.	3.0	59
17	High intercorneal symmetry in corneal biomechanical metrics. Eye and Vision (London, England), 2016, 3, 7.	3.0	10
18	Evaluation of the relationship of corneal biomechanical metrics with physical intraocular pressure and central corneal thickness in ex vivo rabbit eye globes. Experimental Eye Research, 2015, 137, 11-17.	2.6	49

#	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	Nanoscale characterization of the biomechanical properties of collagen fibrils in the sclera. <i>Applied Physics Letters</i> , 2014, 104, 103703.	3.3	19
21	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
22	Characterization of age-related variation in corneal biomechanical properties. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1475-1485.	3.4	163
23	Regional variation in the biomechanical properties of the human sclera. <i>Experimental Eye Research</i> , 2010, 90, 624-633.	2.6	126