

Ahmed Abass

List of Publications by Year in descending order

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papers

661
citations

687363

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677142

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517
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#	ARTICLE	IF	CITATIONS
1	Determination of Corneal Biomechanical Behavior in-vivo for Healthy Eyes Using CorVis ST Tonometry: Stress-Strain Index. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 105.	4.1	138
2	Transverse depth-dependent changes in corneal collagen lamellar orientation and distribution. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140717.	3.4	54
3	Changes in Scleral Collagen Organization in Murine Chronic Experimental Glaucoma. , 2014, 55, 6554.		40
4	A wide-angle X-ray fibre diffraction method for quantifying collagen orientation across large tissue areas: application to the human eyeball coat. <i>Journal of Applied Crystallography</i> , 2013, 46, 1481-1489.	4.5	31
5	Multi-meridian corneal imaging of air-puff induced deformation for improved detection of biomechanical abnormalities. <i>Biomedical Optics Express</i> , 2020, 11, 6337.	2.9	28
6	Microstructure-based numerical simulation of the mechanical behaviour of ocular tissue. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180685.	3.4	26
7	Development and validation of a new intraocular pressure estimate for patients with soft corneas. <i>Journal of Cataract and Refractive Surgery</i> , 2019, 45, 1316-1323.	1.5	24
8	Three-dimensional non-parametric method for limbus detection. <i>PLoS ONE</i> , 2018, 13, e0207710.	2.5	22
9	Review of in-vivo characterisation of corneal biomechanics. <i>Medicine in Novel Technology and Devices</i> , 2021, 11, 100073.	1.6	21
10	Assessment of the Ocular Response Analyzer as an Instrument for Measurement of Intraocular Pressure and Corneal Biomechanics. <i>Current Eye Research</i> , 2015, 40, 1111-1119.	1.5	19
11	Artefact-free topography based scleral-asymmetry. <i>PLoS ONE</i> , 2019, 14, e0219789.	2.5	18
12	Stress-Strain Index Map: A New Way to Represent Corneal Material Stiffness. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 640434.	4.1	18
13	Simulated optical performance of soft contact lenses on the eye. <i>PLoS ONE</i> , 2019, 14, e0216484.	2.5	14
14	Characterization of cone size and centre in keratoconic corneas. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200271.	3.4	14
15	Positions of Ocular Geometrical and Visual Axes in Brazilian, Chinese and Italian Populations. <i>Current Eye Research</i> , 2018, 43, 1404-1414.	1.5	13
16	Inflation experiments and inverse finite element modelling of posterior human sclera. <i>Journal of Biomechanics</i> , 2020, 98, 109438.	2.1	12
17	Evaluation of corneal biomechanical behavior in vivo for healthy and keratoconic eyes using the stress-strain index. <i>Journal of Cataract and Refractive Surgery</i> , 2022, 48, 1162-1167.	1.5	12
18	Non-Orthogonal Corneal Astigmatism among Normal and Keratoconic Brazilian and Chinese populations. <i>Current Eye Research</i> , 2018, 43, 717-724.	1.5	11

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19	Fluid-Structure Interaction Based Algorithms for IOP and Corneal Material Behavior. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 970.	4.1	11
20	Analysis of X-ray scattering microstructure data for implementation in numerical simulations of ocular biomechanical behaviour. <i>PLoS ONE</i> , 2019, 14, e0214770.	2.5	10
21	SAXS4COLL: an integrated software tool for analysing fibrous collagen-based tissues. <i>Journal of Applied Crystallography</i> , 2017, 50, 1235-1240.	4.5	9
22	Limbus misrepresentation in parametric eye models. <i>PLoS ONE</i> , 2020, 15, e0236096.	2.5	9
23	Simulation of the Effect of Material Properties on Soft Contact Lens On-Eye Power. <i>Bioengineering</i> , 2019, 6, 94.	3.5	8
24	Anterior Scleral Regional Variation between Asian and Caucasian Populations. <i>Journal of Clinical Medicine</i> , 2020, 9, 3419.	2.4	8
25	Fibril density reduction in keratoconic corneas. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200900.	3.4	8
26	Dynamic performance of a nonlinear non-dimensional two stage electrohydraulic servovalve model. <i>International Journal of Mechanics and Materials in Design</i> , 2011, 7, 99-110.	3.0	7
27	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
28	Review of ex-vivo characterisation of corneal biomechanics. <i>Medicine in Novel Technology and Devices</i> , 2021, 11, 100074.	1.6	6
29	In Vivo Biomechanical Changes Associated With Keratoconus Progression. <i>Current Eye Research</i> , 2022, 47, 982-986.	1.5	6
30	A new approach for quantifying epithelial and stromal thickness changes after orthokeratology contact lens wear. <i>Royal Society Open Science</i> , 2021, 8, 211108.	2.4	6
31	Automotive Driveline Modelling, Inverse-Simulation and Compensation. , 2010, , .		5
32	Experimental evaluation of the viscoelasticity of porcine vitreous. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200849.	3.4	5
33	Which feature influences on-eye power change of soft toric contact lenses: Design or corneal shape?. <i>PLoS ONE</i> , 2020, 15, e0242243.	2.5	5
34	Can the Corvis ST Estimate Corneal Viscoelasticity?. <i>Journal of Refractive Surgery</i> , 2020, 36, 346-347.	2.3	5
35	The Efficiency of Using Mirror Imaged Topography in Fellow Eyes Analyses of Pentacam HR Data. <i>Symmetry</i> , 2021, 13, 2132.	2.2	5
36	Effect of Corneal Tilt on the Determination of Asphericity. <i>Sensors</i> , 2021, 21, 7636.	3.8	5

#	ARTICLE	IF	CITATIONS
37	Determination of Optic Axes by Corneal Topography among Italian, Brazilian, and Chinese Populations. Photonics, 2021, 8, 61.	2.0	4
38	Non-Orthogonal Refractive Lenses for Non-Orthogonal Astigmatic Eyes. Current Eye Research, 2019, 44, 781-789.	1.5	3
39	Clinical Validation of the Automated Characterization of Cone Size and Center in Keratoconic Corneas. Journal of Refractive Surgery, 2021, 37, 414-421.	2.3	3
40	Performance of Zernike polynomials in reconstructing raw-elevation data captured by Pentacam HR, Medmont E300 and Eye Surface Profiler. Heliyon, 2021, 7, e08623.	3.2	3
41	Nonparametric linear time-invariant extensions of noninvertible and backlash plant. International Journal of Robust and Nonlinear Control, 2014, 24, 3092-3105.	3.7	2
42	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
43	Nonparametric Driveline Identification and Control. , 2010, , .		1
44	Automotive driveline control by a nonlinear nonparametric QFT method. , 2010, , .		1
45	Driveline Launch Control by a Test-Based Nonparametric QFT Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 85-91.	0.4	1
46	Numerical Simulation of Corneal Fibril Reorientation in Response to External Loading. International Journal of Environmental Research and Public Health, 2019, 16, 3278.	2.6	1