

Ahmed Abass

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6521736/publications.pdf>

Version: 2024-02-01

46
papers

661
citations

687363

13
h-index

677142

22
g-index

46
all docs

46
docs citations

46
times ranked

517
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	In Vivo Biomechanical Changes Associated With Keratoconus Progression. <i>Current Eye Research</i> , 2022, 47, 982-986.	1.5	6
3	Experimental evaluation of the viscoelasticity of porcine vitreous. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200849.	3.4	5
4	Determination of Optic Axes by Corneal Topography among Italian, Brazilian, and Chinese Populations. <i>Photonics</i> , 2021, 8, 61.	2.0	4
5	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
6	Fibril density reduction in keratoconic corneas. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200900.	3.4	8
7	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
8	Clinical Validation of the Automated Characterization of Cone Size and Center in Keratoconic Corneas. <i>Journal of Refractive Surgery</i> , 2021, 37, 414-421.	2.3	3
9	Review of in-vivo characterisation of corneal biomechanics. <i>Medicine in Novel Technology and Devices</i> , 2021, 11, 100073.	1.6	21
10	Review of ex-vivo characterisation of corneal biomechanics. <i>Medicine in Novel Technology and Devices</i> , 2021, 11, 100074.	1.6	6
11	The Efficiency of Using Mirror Imaged Topography in Fellow Eyes Analyses of Pentacam HR Data. <i>Symmetry</i> , 2021, 13, 2132.	2.2	5
12	Effect of Corneal Tilt on the Determination of Asphericity. <i>Sensors</i> , 2021, 21, 7636.	3.8	5
13	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
14	Performance of Zernike polynomials in reconstructing raw-elevation data captured by Pentacam HR, Medmont E300 and Eye Surface Profiler. <i>Heliyon</i> , 2021, 7, e08623.	3.2	3
15	Inflation experiments and inverse finite element modelling of posterior human sclera. <i>Journal of Biomechanics</i> , 2020, 98, 109438.	2.1	12
16	Fluid-Structure Interaction Based Algorithms for IOP and Corneal Material Behavior. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 970.	4.1	11
17	Characterization of cone size and centre in keratoconic corneas. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200271.	3.4	14
18	Anterior Scleral Regional Variation between Asian and Caucasian Populations. <i>Journal of Clinical Medicine</i> , 2020, 9, 3419.	2.4	8

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Can the Corvis ST Estimate Corneal Viscoelasticity?. <i>Journal of Refractive Surgery</i> , 2020, 36, 346-347.	2.3	5
22	Limbus misrepresentation in parametric eye models. <i>PLoS ONE</i> , 2020, 15, e0236096.	2.5	9
23	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
24	Artefact-free topography based scleral-asymmetry. <i>PLoS ONE</i> , 2019, 14, e0219789.	2.5	18
25	Simulation of the Effect of Material Properties on Soft Contact Lens On-Eye Power. <i>Bioengineering</i> , 2019, 6, 94.	3.5	8
26	Numerical Simulation of Corneal Fibril Reorientation in Response to External Loading. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3278.	2.6	1
27	Simulated optical performance of soft contact lenses on the eye. <i>PLoS ONE</i> , 2019, 14, e0216484.	2.5	14
28	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
29	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
30	Non-Orthogonal Refractive Lenses for Non-Orthogonal Astigmatic Eyes. <i>Current Eye Research</i> , 2019, 44, 781-789.	1.5	3
31	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
32	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
33	Non-Orthogonal Corneal Astigmatism among Normal and Keratoconic Brazilian and Chinese populations. <i>Current Eye Research</i> , 2018, 43, 717-724.	1.5	11
34	Three-dimensional non-parametric method for limbus detection. <i>PLoS ONE</i> , 2018, 13, e0207710.	2.5	22
35	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
36	SAXS4COLL: an integrated software tool for analysing fibrous collagen-based tissues. <i>Journal of Applied Crystallography</i> , 2017, 50, 1235-1240.	4.5	9

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Changes in Scleral Collagen Organization in Murine Chronic Experimental Glaucoma. , 2014, 55, 6554.		40
40	Nonparametric linear time-invariant extensions of noninvertible and backlash plant. <i>International Journal of Robust and Nonlinear Control</i> , 2014, 24, 3092-3105.	3.7	2
41	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
42	Driveline Launch Control by a Test-Based Nonparametric QFT Method. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 85-91.	0.4	1
43	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
44	Automotive Driveline Modelling, Inverse-Simulation and Compensation. , 2010, , .		5
45	Nonparametric Driveline Identification and Control. , 2010, , .		1
46	Automotive driveline control by a nonlinear nonparametric QFT method. , 2010, , .		1