

Scott A Read

List of Publications by Year in descending order

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121
papers

5,324
citations

147566

31
h-index

174990

52
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123
all docs

123
docs citations

123
times ranked

3406
citing authors

#	ARTICLE	IF	CITATIONS
1	Diurnal Variations in Axial Length, Choroidal Thickness, Intraocular Pressure, and Ocular Biometrics. , 2011, 52, 5121.		373
2	IMI “ Interventions for Controlling Myopia Onset and Progression Report. , 2019, 60, M106.		230
3	A review of astigmatism and its possible genesis. Australasian journal of optometry, The, 2007, 90, 5-19.	0.6	211
4	Choroidal Thickness in Myopic and Nonmyopic Children Assessed With Enhanced Depth Imaging Optical Coherence Tomography. , 2013, 54, 7578.		160
5	Human Optical Axial Length and Defocus. , 2010, 51, 6262.		148
6	Light Exposure and Eye Growth in Childhood. , 2015, 56, 6779.		140
7	Choroidal Thickness in Childhood. , 2013, 54, 3586.		138
8	Diurnal Variation of Axial Length, Intraocular Pressure, and Anterior Eye Biometrics. , 2008, 49, 2911.		137
9	Light Exposure and Physical Activity in Myopic and Emmetropic Children. Optometry and Vision Science, 2014, 91, 330-341.	0.6	132
10	Diurnal Variation of Corneal Shape and Thickness. Optometry and Vision Science, 2009, 86, 170-180.	0.6	128
11	Longitudinal Changes in Choroidal Thickness and Eye Growth in Childhood. , 2015, 56, 3103.		126
12	Monocular myopic defocus and daily changes in axial length and choroidal thickness of human eyes. Experimental Eye Research, 2012, 103, 47-54.	1.2	113
13	Automatic segmentation of choroidal thickness in optical coherence tomography. Biomedical Optics Express, 2013, 4, 2795.	1.5	107
14	The Topography of the Central and Peripheral Cornea. , 2006, 47, 1404.		101
15	Choroidal changes in human myopia: insights from optical coherence tomography imaging. Australasian journal of optometry, The, 2019, 102, 270-285.	0.6	99
16	Automatic segmentation of OCT retinal boundaries using recurrent neural networks and graph search. Biomedical Optics Express, 2018, 9, 5759.	1.5	92
17	Effect of patch size and network architecture on a convolutional neural network approach for automatic segmentation of OCT retinal layers. Biomedical Optics Express, 2018, 9, 3049.	1.5	91
18	IMI “ Clinical Myopia Control Trials and Instrumentation Report. , 2019, 60, M132.		91

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19	Corneal topography with Scheimpflug imaging and videokeratography: Comparative study of normal eyes. <i>Journal of Cataract and Refractive Surgery</i> , 2009, 35, 1072-1081.	0.7	90
20	Axial length and choroidal thickness changes accompanying prolonged accommodation in myopes and emmetropes. <i>Vision Research</i> , 2012, 72, 34-41.	0.7	88
21	Regional Changes in Choroidal Thickness Associated With Accommodation. , 2015, 56, 6414.		86
22	Hyperopic Defocus and Diurnal Changes in Human Choroid and Axial Length. <i>Optometry and Vision Science</i> , 2013, 90, 1187-1198.	0.6	85
23	Repeatability and validity of lens densitometry measured with Scheimpflug imaging. <i>Journal of Cataract and Refractive Surgery</i> , 2009, 35, 1210-1215.	0.7	82
24	Automatic choroidal segmentation in OCT images using supervised deep learning methods. <i>Scientific Reports</i> , 2019, 9, 13298.	1.6	82
25	The visual and functional impacts of astigmatism and its clinical management. <i>Ophthalmic and Physiological Optics</i> , 2014, 34, 267-294.	1.0	80
26	Axial Length Changes During Accommodation in Myopes and Emmetropes. <i>Optometry and Vision Science</i> , 2010, 87, 656-662.	0.6	76
27	The Influence of Eyelid Morphology on Normal Corneal Shape. , 2007, 48, 112.		74
28	Speckle reduction in optical coherence tomography imaging by affine-motion image registration. <i>Journal of Biomedical Optics</i> , 2011, 16, 116027.	1.4	64
29	The effect of topical adrenergic and anticholinergic agents on the choroidal thickness of young healthy adults. <i>Experimental Eye Research</i> , 2014, 128, 181-189.	1.2	63
30	Retinal and Choroidal Thickness in Myopic Anisometropia. , 2013, 54, 2445.		62
31	Myopic anisometropia: ocular characteristics and aetiological considerations. <i>Australasian journal of optometry</i> , The, 2014, 97, 291-307.	0.6	62
32	Anterior eye tissue morphology: Scleral and conjunctival thickness in children and young adults. <i>Scientific Reports</i> , 2016, 6, 33796.	1.6	59
33	The short-term influence of exercise on axial length and intraocular pressure. <i>Eye</i> , 2011, 25, 767-774.	1.1	58
34	MACULAR RETINAL LAYER THICKNESS IN CHILDHOOD. <i>Retina</i> , 2015, 35, 1223-1233.	1.0	50
35	Wide-field choroidal thickness in myopes and emmetropes. <i>Scientific Reports</i> , 2019, 9, 3474.	1.6	50
36	Changes in intraocular pressure and ocular pulse amplitude with accommodation. <i>British Journal of Ophthalmology</i> , 2010, 94, 332-335.	2.1	49

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37	Higher order aberrations, refractive error development and myopia control: a review. <i>Australasian journal of optometry, The</i> , 2020, 103, 68-85.	0.6	49
38	The Diurnal Variation of Corneal Topography and Aberrations. <i>Cornea</i> , 2005, 24, 678-687.	0.9	48
39	Predicting Dry Eye Using Noninvasive Techniques of Tear Film Surface Assessment. , 2011, 52, 751.		48
40	Axial elongation following prolonged near work in myopes and emmetropes. <i>British Journal of Ophthalmology</i> , 2011, 95, 652-656.	2.1	45
41	Dim Light Exposure and Myopia in Children. , 2018, 59, 4804.		43
42	Influence of accommodation on the anterior and posterior cornea. <i>Journal of Cataract and Refractive Surgery</i> , 2007, 33, 1877-1885.	0.7	40
43	Interocular Symmetry in Myopic Anisometropia. <i>Optometry and Vision Science</i> , 2011, 88, 1454-1462.	0.6	39
44	Patterns of Daily Outdoor Light Exposure in Australian and Singaporean Children. <i>Translational Vision Science and Technology</i> , 2018, 7, 8.	1.1	39
45	Tissue thickness calculation in ocular optical coherence tomography. <i>Biomedical Optics Express</i> , 2016, 7, 629.	1.5	38
46	Regional Changes in Corneal Thickness and Shape with Soft Contact Lenses. <i>Optometry and Vision Science</i> , 2010, 87, 567-575.	0.6	35
47	Longitudinal changes in macular retinal layer thickness in pediatric populations: Myopic vs non-myopic eyes. <i>PLoS ONE</i> , 2017, 12, e0180462.	1.1	34
48	Daily morning light therapy is associated with an increase in choroidal thickness in healthy young adults. <i>Scientific Reports</i> , 2018, 8, 8200.	1.6	34
49	Noninvasive In Vivo Assessment of Soft Contact Lens Type on Tear Film Surface Quality. , 2012, 53, 525.		33
50	Diurnal variation of anterior scleral and conjunctival thickness. <i>Ophthalmic and Physiological Optics</i> , 2016, 36, 279-289.	1.0	33
51	Axial Elongation Associated with Biomechanical Factors during Near Work. <i>Optometry and Vision Science</i> , 2014, 91, 322-329.	0.6	32
52	Lateral shearing interferometry, dynamic wavefront sensing, and high-speed videokeratoscopy for noninvasive assessment of tear film surface characteristics: a comparative study. <i>Journal of Biomedical Optics</i> , 2010, 15, 037005.	1.4	29
53	Water drinking influences eye length and IOP in young healthy subjects. <i>Experimental Eye Research</i> , 2010, 91, 180-185.	1.2	29
54	The Morphology of the Palpebral Fissure in Different Directions of Vertical Gaze. <i>Optometry and Vision Science</i> , 2006, 83, 715-722.	0.6	28

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55	Peripapillary choroidal thickness in childhood. <i>Experimental Eye Research</i> , 2015, 135, 164-173.	1.2	27
56	The short-term influence of elevated intraocular pressure on axial length. <i>Ophthalmic and Physiological Optics</i> , 2011, 31, 398-403.	1.0	26
57	Axial Length Changes with Shifts of Gaze Direction in Myopes and Emmetropes. , 2012, 53, 6465.		26
58	Short-Term Effect of Low-Dose Atropine and Hyperopic Defocus on Choroidal Thickness and Axial Length in Young Myopic Adults. <i>Journal of Ophthalmology</i> , 2019, 2019, 1-8.	0.6	26
59	Peripheral Ocular Aberrations in Mild and Moderate Keratoconus. , 2010, 51, 6850.		24
60	Diurnal Variation of Retinal Thickness with Spectral Domain OCT. <i>Optometry and Vision Science</i> , 2012, 89, 611-619.	0.6	24
61	Daily axial length and choroidal thickness variations in young adults: Associations with light exposure and longitudinal axial length and choroid changes. <i>Experimental Eye Research</i> , 2019, 189, 107850.	1.2	24
62	Regional alterations in human choroidal thickness in response to short-term monocular hemifield myopic defocus. <i>Ophthalmic and Physiological Optics</i> , 2019, 39, 172-182.	1.0	24
63	Validation of Optical Low Coherence Reflectometry Retinal and Choroidal Biometry. <i>Optometry and Vision Science</i> , 2011, 88, 855-863.	0.6	23
64	Tear Film Surface Quality With Rigid and Soft Contact Lenses. <i>Eye and Contact Lens</i> , 2012, 38, 171-178.	0.8	23
65	Corneal changes following near work in myopic anisometropia. <i>Ophthalmic and Physiological Optics</i> , 2013, 33, 15-25.	1.0	23
66	Anterior scleral thickness changes with accommodation in myopes and emmetropes. <i>Experimental Eye Research</i> , 2018, 177, 96-103.	1.2	22
67	Monocular amblyopia and higher order aberrations. <i>Vision Research</i> , 2012, 66, 39-48.	0.7	20
68	Sleep in Myopic and Non-Myopic Children. <i>Translational Vision Science and Technology</i> , 2020, 9, 22.	1.1	19
69	The influence of downward gaze and accommodation on ocular aberrations over time. <i>Journal of Vision</i> , 2011, 11, 17-17.	0.1	18
70	The interaction between homatropine and optical blur on choroidal thickness. <i>Ophthalmic and Physiological Optics</i> , 2018, 38, 257-265.	1.0	18
71	Influence of seasons upon personal light exposure and longitudinal axial length changes in young adults. <i>Acta Ophthalmologica</i> , 2019, 97, e256-e265.	0.6	18
72	Astigmatic Defocus Leads to Short-Term Changes in Human Choroidal Thickness. , 2020, 61, 48.		18

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73	The time course of the onset and recovery of axial length changes in response to imposed defocus. <i>Scientific Reports</i> , 2020, 10, 8322.	1.6	18
74	Effect of Altered OCT Image Quality on Deep Learning Boundary Segmentation. <i>IEEE Access</i> , 2020, 8, 43537-43553.	2.6	18
75	Ocular and Environmental Factors Associated with Eye Growth in Childhood. <i>Optometry and Vision Science</i> , 2016, 93, 1031-1041.	0.6	17
76	The short-term accommodation response to anisometric accommodative stimuli in isometropia. <i>Ophthalmic and Physiological Optics</i> , 2015, 35, 552-561.	1.0	16
77	Measurement Duration and Frequency Impact Objective Light Exposure Measures. <i>Optometry and Vision Science</i> , 2017, 94, 588-597.	0.6	16
78	Changes in ocular biometry during short-term accommodation in children. <i>Ophthalmic and Physiological Optics</i> , 2020, 40, 584-594.	1.0	15
79	Repeatability of wide-field choroidal thickness measurements using enhanced-depth imaging optical coherence tomography. <i>Australasian journal of optometry</i> , The, 2019, 102, 327-334.	0.6	14
80	Understanding Myopia: Pathogenesis and Mechanisms. , 2020, , 65-94.		12
81	Retinal OFF-Pathway Overstimulation Leads to Greater Accommodation-Induced Choroidal Thinning. , 2021, 62, 5.		12
82	Corneal changes following short-term rigid contact lens wear. <i>Contact Lens and Anterior Eye</i> , 2012, 35, 129-136.	0.8	11
83	Application of texture analysis in tear film surface assessment based on videokeratoscopy. <i>Journal of Optometry</i> , 2013, 6, 185-193.	0.7	11
84	The effect of aberrations on objectively assessed image quality and depth of focus. <i>Journal of Vision</i> , 2017, 17, 2.	0.1	11
85	Impact of image averaging on wide-field choroidal thickness measurements using enhanced-depth imaging optical coherence tomography. <i>Australasian journal of optometry</i> , The, 2019, 102, 320-326.	0.6	11
86	Anterior eye shape in emmetropes, low to moderate myopes, and high myopes. <i>Contact Lens and Anterior Eye</i> , 2020, 44, 101361.	0.8	11
87	Induced Refractive Error Changes the Optical Coherence Tomography Angiography Transverse Magnification and Vascular Indices. <i>American Journal of Ophthalmology</i> , 2021, 229, 230-241.	1.7	11
88	Diurnal Variations in Ocular Aberrations of Human Eyes. <i>Current Eye Research</i> , 2014, 39, 271-281.	0.7	10
89	Data augmentation for patch-based OCT chorio-retinal segmentation using generative adversarial networks. <i>Neural Computing and Applications</i> , 2021, 33, 7393-7408.	3.2	10
90	Axial Elongation During Short-Term Accommodation in Myopic and Nonmyopic Children. , 2022, 63, 12.		10

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91	Does transient increase in axial length during accommodation attenuate with age?. Australasian journal of optometry, The, 2017, 100, 676-682.	0.6	9
92	Effects of accommodation and simulated convergence on anterior scleral shape. Ophthalmic and Physiological Optics, 2020, 40, 482-490.	1.0	9
93	Intraocular pressure in keratoconus. Acta Ophthalmologica, 2011, 89, 358-364.	0.6	8
94	Changes in Retinal Optical Coherence Tomography Angiography Indexes Over 24 Hours. , 2022, 63, 25.		8
95	Sustained Convergence, Axial Length, and Corneal Topography. Optometry and Vision Science, 2010, 87, E45-E52.	0.6	7
96	Measurement of ocular aberrations in downward gaze using a modified clinical aberrometer. Biomedical Optics Express, 2011, 2, 452.	1.5	7
97	Choroidal Thickness in Indigenous Australian Children. Translational Vision Science and Technology, 2020, 9, 28.	1.1	7
98	Higher order aberrations and retinal image quality during short-term accommodation in children. Vision Research, 2021, 188, 74-84.	0.7	7
99	Automatic Retinal and Choroidal Boundary Segmentation in OCT Images Using Patch-Based Supervised Machine Learning Methods. Lecture Notes in Computer Science, 2019, , 215-228.	1.0	7
100	OCT Retinal and Choroidal Layer Instance Segmentation Using Mask R-CNN. Sensors, 2022, 22, 2016.	2.1	7
101	Constructing Synthetic Chorio-Retinal Patches using Generative Adversarial Networks. , 2019, , .		6
102	Effects of brief periods of clear vision on the defocus-mediated changes in axial length and choroidal thickness of human eyes. Ophthalmic and Physiological Optics, 2021, 41, 932-940.	1.0	6
103	Extrapolation of Central Corneal Topography Into the Periphery. Eye and Contact Lens, 2007, 33, 293-299.	0.8	5
104	Wavefront Refraction and Correction. Optometry and Vision Science, 2014, 91, 1154-1155.	0.6	5
105	Anterior scleral thickness and shape changes with different levels of simulated convergence. Experimental Eye Research, 2021, 203, 108435.	1.2	4
106	Static compression optical coherence elastography to measure the mechanical properties of soft contact lenses. Biomedical Optics Express, 2021, 12, 1821.	1.5	4
107	Application of Deep Learning Methods for Binarization of the Choroid in Optical Coherence Tomography Images. Translational Vision Science and Technology, 2022, 11, 23.	1.1	4
108	OCT chorio-retinal segmentation with adversarial loss. , 2021, , .		4

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109	Progressive adult antimetropia. <i>Australasian journal of optometry, The</i> , 2014, 97, 375-378.	0.6	3
110	OCT retinal image-to-image translation: Analysing the use of CycleGAN to improve retinal boundary semantic segmentation. , 2021, , .		3
111	Imaging and Measurement in the Eye. <i>Optometry and Vision Science</i> , 2012, 89, 521-523.	0.6	2
112	Imaging the visual system: from the eye to the brain. <i>Ophthalmic and Physiological Optics</i> , 2016, 36, 213-217.	1.0	2
113	The Association between Childhood Myopia Prevalence and Environmental Factors in China: A Metaregression Analysis. <i>Journal of Ophthalmology</i> , 2020, 2020, 1-13.	0.6	2
114	Repeatability of Anterior Eye Surface Topography Parameters from an Anterior Eye Surface Profilometer. <i>Optometry and Vision Science</i> , 2021, 98, 1203-1209.	0.6	2
115	Unilateral pseudogerontoxon. <i>Australasian journal of optometry, The</i> , 2009, 92, 150-153.	0.6	1
116	Looking and seeing beyond 2020. <i>Australasian journal of optometry, The</i> , 2020, 103, 1-2.	0.6	1
117	Quantitative compressive optical coherence elastography using structural OCT imaging and optical palpation to measure soft contact lens mechanical properties. <i>Biomedical Optics Express</i> , 2021, 12, 7315.	1.5	1
118	Dual image and mask synthesis with GANs for semantic segmentation in optical coherence tomography. , 2020, , .		1
119	Use of uncertainty quantification as a surrogate for layer segmentation error in Stargardt disease retinal OCT images. , 2021, , .		1
120	Author Response: Axial Length Changes with Shifts of Gaze in Myopes and Emmetropes. , 2012, 53, 7636.		0
121	14. The cornea. , 2016, , 187-210.		0