

Scott A Read

List of Publications by Year in descending order

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121
papers

5,324
citations

147801
31
h-index

175258
52
g-index

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.	1.3	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.	1.2	132
10	Diurnal Variation of Corneal Shape and Thickness. Optometry and Vision Science, 2009, 86, 170-180.	1.2	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.	2.6	113
13	Automatic segmentation of choroidal thickness in optical coherence tomography. Biomedical Optics Express, 2013, 4, 2795.	2.9	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.	1.3	99
16	Automatic segmentation of OCT retinal boundaries using recurrent neural networks and graph search. Biomedical Optics Express, 2018, 9, 5759.	2.9	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.	2.9	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. Journal of Cataract and Refractive Surgery, 2009, 35, 1072-1081.	1.5	90
20	Axial length and choroidal thickness changes accompanying prolonged accommodation in myopes and emmetropes. Vision Research, 2012, 72, 34-41.	1.4	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. Optometry and Vision Science, 2013, 90, 1187-1198.	1.2	85
23	Repeatability and validity of lens densitometry measured with Scheimpflug imaging. Journal of Cataract and Refractive Surgery, 2009, 35, 1210-1215.	1.5	82
24	Automatic choroidal segmentation in OCT images using supervised deep learning methods. Scientific Reports, 2019, 9, 13298.	3.3	82
25	The visual and functional impacts of astigmatism and its clinical management. Ophthalmic and Physiological Optics, 2014, 34, 267-294.	2.0	80
26	Axial Length Changes During Accommodation in Myopes and Emmetropes. Optometry and Vision Science, 2010, 87, 656-662.	1.2	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. Journal of Biomedical Optics, 2011, 16, 116027.	2.6	64
29	The effect of topical adrenergic and anticholinergic agents on the choroidal thickness of young healthy adults. Experimental Eye Research, 2014, 128, 181-189.	2.6	63
30	Retinal and Choroidal Thickness in Myopic Anisometropia. , 2013, 54, 2445.		62
31	Myopic anisometropia: ocular characteristics and aetiological considerations. Australasian journal of optometry, The, 2014, 97, 291-307.	1.3	62
32	Anterior eye tissue morphology: Scleral and conjunctival thickness in children and young adults. Scientific Reports, 2016, 6, 33796.	3.3	59
33	The short-term influence of exercise on axial length and intraocular pressure. Eye, 2011, 25, 767-774.	2.1	58
34	MACULAR RETINAL LAYER THICKNESS IN CHILDHOOD. Retina, 2015, 35, 1223-1233.	1.7	50
35	Wide-field choroidal thickness in myopes and emmetropes. Scientific Reports, 2019, 9, 3474.	3.3	50
36	Changes in intraocular pressure and ocular pulse amplitude with accommodation. British Journal of Ophthalmology, 2010, 94, 332-335.	3.9	49

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37	Higher order aberrations, refractive error development and myopia control: a review. Australasian journal of optometry, The, 2020, 103, 68-85.	1.3	49
38	The Diurnal Variation of Corneal Topography and Aberrations. Cornea, 2005, 24, 678-687.	1.7	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. British Journal of Ophthalmology, 2011, 95, 652-656.	3.9	45
41	Dim Light Exposure and Myopia in Children. , 2018, 59, 4804.		43
42	Influence of accommodation on the anterior and posterior cornea. Journal of Cataract and Refractive Surgery, 2007, 33, 1877-1885.	1.5	40
43	Interocular Symmetry in Myopic Anisometropia. Optometry and Vision Science, 2011, 88, 1454-1462.	1.2	39
44	Patterns of Daily Outdoor Light Exposure in Australian and Singaporean Children. Translational Vision Science and Technology, 2018, 7, 8.	2.2	39
45	Tissue thickness calculation in ocular optical coherence tomography. Biomedical Optics Express, 2016, 7, 629.	2.9	38
46	Regional Changes in Corneal Thickness and Shape with Soft Contact Lenses. Optometry and Vision Science, 2010, 87, 567-575.	1.2	35
47	Longitudinal changes in macular retinal layer thickness in pediatric populations: Myopic vs non-myopic eyes. PLoS ONE, 2017, 12, e0180462.	2.5	34
48	Daily morning light therapy is associated with an increase in choroidal thickness in healthy young adults. Scientific Reports, 2018, 8, 8200.	3.3	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. Ophthalmic and Physiological Optics, 2016, 36, 279-289.	2.0	33
51	Axial Elongation Associated with Biomechanical Factors during Near Work. Optometry and Vision Science, 2014, 91, 322-329.	1.2	32
52	Lateral shearing interferometry, dynamic wavefront sensing, and high-speed videokeratoscopy for noninvasive assessment of tear film surface characteristics: a comparative study. Journal of Biomedical Optics, 2010, 15, 037005.	2.6	29
53	Water drinking influences eye length and IOP in young healthy subjects. Experimental Eye Research, 2010, 91, 180-185.	2.6	29
54	The Morphology of the Palpebral Fissure in Different Directions of Vertical Gaze. Optometry and Vision Science, 2006, 83, 715-722.	1.2	28

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55	Peripapillary choroidal thickness in childhood. <i>Experimental Eye Research</i> , 2015, 135, 164-173.	2.6	27
56	The short-term influence of elevated intraocular pressure on axial length. <i>Ophthalmic and Physiological Optics</i> , 2011, 31, 398-403.	2.0	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.	1.3	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.	1.2	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.	2.6	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.	2.0	24
63	Validation of Optical Low Coherence Reflectometry Retinal and Choroidal Biometry. <i>Optometry and Vision Science</i> , 2011, 88, 855-863.	1.2	23
64	Tear Film Surface Quality With Rigid and Soft Contact Lenses. <i>Eye and Contact Lens</i> , 2012, 38, 171-178.	1.6	23
65	Corneal changes following near work in myopic anisometropia. <i>Ophthalmic and Physiological Optics</i> , 2013, 33, 15-25.	2.0	23
66	Anterior scleral thickness changes with accommodation in myopes and emmetropes. <i>Experimental Eye Research</i> , 2018, 177, 96-103.	2.6	22
67	Monocular amblyopia and higher order aberrations. <i>Vision Research</i> , 2012, 66, 39-48.	1.4	20
68	Sleep in Myopic and Non-Myopic Children. <i>Translational Vision Science and Technology</i> , 2020, 9, 22.	2.2	19
69	The influence of downward gaze and accommodation on ocular aberrations over time. <i>Journal of Vision</i> , 2011, 11, 17-17.	0.3	18
70	The interaction between homatropine and optical blur on choroidal thickness. <i>Ophthalmic and Physiological Optics</i> , 2018, 38, 257-265.	2.0	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.	1.1	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. Scientific Reports, 2020, 10, 8322.	3.3	18
74	Effect of Altered OCT Image Quality on Deep Learning Boundary Segmentation. IEEE Access, 2020, 8, 43537-43553.	4.2	18
75	Ocular and Environmental Factors Associated with Eye Growth in Childhood. Optometry and Vision Science, 2016, 93, 1031-1041.	1.2	17
76	The short-term accommodation response to anisometric accommodative stimuli in isometropia. Ophthalmic and Physiological Optics, 2015, 35, 552-561.	2.0	16
77	Measurement Duration and Frequency Impact Objective Light Exposure Measures. Optometry and Vision Science, 2017, 94, 588-597.	1.2	16
78	Changes in ocular biometry during short-term accommodation in children. Ophthalmic and Physiological Optics, 2020, 40, 584-594.	2.0	15
79	Repeatability of wide-field choroidal thickness measurements using enhanced-depth imaging optical coherence tomography. Australasian journal of optometry, The, 2019, 102, 327-334.	1.3	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. Contact Lens and Anterior Eye, 2012, 35, 129-136.	1.7	11
83	Application of texture analysis in tear film surface assessment based on videokeratoscopy. Journal of Optometry, 2013, 6, 185-193.	1.3	11
84	The effect of aberrations on objectively assessed image quality and depth of focus. Journal of Vision, 2017, 17, 2.	0.3	11
85	Impact of image averaging on wide-field choroidal thickness measurements using enhanced-depth imaging optical coherence tomography. Australasian journal of optometry, The, 2019, 102, 320-326.	1.3	11
86	Anterior eye shape in emmetropes, low to moderate myopes, and high myopes. Contact Lens and Anterior Eye, 2020, 44, 101361.	1.7	11
87	Induced Refractive Error Changes the Optical Coherence Tomography Angiography Transverse Magnification and Vascular Indices. American Journal of Ophthalmology, 2021, 229, 230-241.	3.3	11
88	Diurnal Variations in Ocular Aberrations of Human Eyes. Current Eye Research, 2014, 39, 271-281.	1.5	10
89	Data augmentation for patch-based OCT chorio-retinal segmentation using generative adversarial networks. Neural Computing and Applications, 2021, 33, 7393-7408.	5.6	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.	1.3	9
92	Effects of accommodation and simulated convergence on anterior scleral shape. Ophthalmic and Physiological Optics, 2020, 40, 482-490.	2.0	9
93	Intraocular pressure in keratoconus. Acta Ophthalmologica, 2011, 89, 358-364.	1.1	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.	1.2	7
96	Measurement of ocular aberrations in downward gaze using a modified clinical aberrometer. Biomedical Optics Express, 2011, 2, 452.	2.9	7
97	Choroidal Thickness in Indigenous Australian Children. Translational Vision Science and Technology, 2020, 9, 28.	2.2	7
98	Higher order aberrations and retinal image quality during short-term accommodation in children. Vision Research, 2021, 188, 74-84.	1.4	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.	1.3	7
100	OCT Retinal and Choroidal Layer Instance Segmentation Using Mask R-CNN. Sensors, 2022, 22, 2016.	3.8	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.	2.0	6
103	Extrapolation of Central Corneal Topography Into the Periphery. Eye and Contact Lens, 2007, 33, 293-299.	1.6	5
104	Wavefront Refraction and Correction. Optometry and Vision Science, 2014, 91, 1154-1155.	1.2	5
105	Anterior scleral thickness and shape changes with different levels of simulated convergence. Experimental Eye Research, 2021, 203, 108435.	2.6	4
106	Static compression optical coherence elastography to measure the mechanical properties of soft contact lenses. Biomedical Optics Express, 2021, 12, 1821.	2.9	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.	2.2	4
108	OCT chorio-retinal segmentation with adversarial loss. , 2021, , .		4

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109	Progressive adult antimetropia. Australasian journal of optometry, The, 2014, 97, 375-378.	1.3	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. Optometry and Vision Science, 2012, 89, 521-523.	1.2	2
112	Imaging the visual system: from the eye to the brain. Ophthalmic and Physiological Optics, 2016, 36, 213-217.	2.0	2
113	The Association between Childhood Myopia Prevalence and Environmental Factors in China: A Metaregression Analysis. Journal of Ophthalmology, 2020, 2020, 1-13.	1.3	2
114	Repeatability of Anterior Eye Surface Topography Parameters from an Anterior Eye Surface Profilometer. Optometry and Vision Science, 2021, 98, 1203-1209.	1.2	2
115	Unilateral pseudogerontoxon. Australasian journal of optometry, The, 2009, 92, 150-153.	1.3	1
116	Looking and seeing beyond 2020. Australasian journal of optometry, The, 2020, 103, 1-2.	1.3	1
117	Quantitative compressive optical coherence elastography using structural OCT imaging and optical palpation to measure soft contact lens mechanical properties. Biomedical Optics Express, 2021, 12, 7315.	2.9	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