Scott A Read

List of Publications by Year
in descending order

121 papers	5,324 citations	147726 31 h-index	175177 52 g-index
123 all docs	123 docs citations	123 times ranked	3406 citing authors

#	Article	IF	Citations
1	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
2	Changes in Retinal Optical Coherence Tomography Angiography Indexes Over 24 Hours. , 2022, 63, 25.		8
3	OCT Retinal and Choroidal Layer Instance Segmentation Using Mask R-CNN. Sensors, 2022, 22, 2016.	2.1	7
4	Axial Elongation During Short-Term Accommodation in Myopic and Nonmyopic Children. , 2022, 63, 12.		10
5	Anterior scleral thickness and shape changes with different levels of simulated convergence. Experimental Eye Research, 2021, 203, 108435.	1.2	4
6	Static compression optical coherence elastography to measure the mechanical properties of soft contact lenses. Biomedical Optics Express, 2021, 12, 1821.	1.5	4
7	Data augmentation for patch-based OCT chorio-retinal segmentation using generative adversarial networks. Neural Computing and Applications, 2021, 33, 7393-7408.	3.2	10
8	Effects of brief periods of clear vision on the defocusâ€mediated changes in axial length and choroidal thickness of human eyes. Ophthalmic and Physiological Optics, 2021, 41, 932-940.	1.0	6
9	Induced Refractive Error Changes the Optical Coherence Tomography Angiography Transverse Magnification and Vascular Indices. American Journal of Ophthalmology, 2021, 229, 230-241.	1.7	11
10	Higher order aberrations and retinal image quality during short-term accommodation in children. Vision Research, 2021, 188, 74-84.	0.7	7
11	Retinal OFF-Pathway Overstimulation Leads to Greater Accommodation-Induced Choroidal Thinning. , 2021, 62, 5.		12
12	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.	1.5	1
13	Repeatability of Anterior Eye Surface Topography Parameters from an Anterior Eye Surface Profilometer. Optometry and Vision Science, 2021, 98, 1203-1209.	0.6	2
14	Use of uncertainty quantification as a surrogate for layer segmentation error in Stargardt disease retinal OCT images. , 2021, , .		1
15	OCT retinal image-to-image translation: Analysing the use of CycleGAN to improve retinal boundary semantic segmentation. , 2021, , .		3
16	OCT chorio-retinal segmentation with adversarial loss. , 2021, , .		4
17	Higher order aberrations, refractive error development and myopia control: a review. Australasian journal of optometry, The, 2020, 103, 68-85.	0.6	49
18	The Association between Childhood Myopia Prevalence and Environmental Factors in China: A Metaregression Analysis. Journal of Ophthalmology, 2020, 2020, 1-13.	0.6	2

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19	Changes in ocular biometry during shortâ€term accommodation in children. Ophthalmic and Physiological Optics, 2020, 40, 584-594.	1.0	15
20	Choroidal Thickness in Indigenous Australian Children. Translational Vision Science and Technology, 2020, 9, 28.	1.1	7
21	Astigmatic Defocus Leads to Short-Term Changes in Human Choroidal Thickness. , 2020, 61, 48.		18
22	Sleep in Myopic and Non-Myopic Children. Translational Vision Science and Technology, 2020, 9, 22.	1.1	19
23	Anterior eye shape in emmetropes, low to moderate myopes, and high myopes. Contact Lens and Anterior Eye, 2020, 44, 101361.	0.8	11
24	The time course of the onset and recovery of axial length changes in response to imposed defocus. Scientific Reports, 2020, 10, 8322.	1.6	18
25	Effects of accommodation and simulated convergence on anterior scleral shape. Ophthalmic and Physiological Optics, 2020, 40, 482-490.	1.0	9
26	Effect of Altered OCT Image Quality on Deep Learning Boundary Segmentation. IEEE Access, 2020, 8, 43537-43553.	2.6	18
27	Looking and seeing beyond 2020. Australasian journal of optometry, The, 2020, 103, 1-2.	0.6	1
28	Understanding Myopia: Pathogenesis and Mechanisms. , 2020, , 65-94.		12
29	Dual image and mask synthesis with GANs for semantic segmentation in optical coherence tomography. , 2020, , .		1
30	Daily axial length and choroidal thickness variations in young adults: Associations with light exposure and longitudinal axial length and choroid changes. Experimental Eye Research, 2019, 189, 107850.	1.2	24
31	Short-Term Effect of Low-Dose Atropine and Hyperopic Defocus on Choroidal Thickness and Axial Length in Young Myopic Adults. Journal of Ophthalmology, 2019, 2019, 1-8.	0.6	26
32	Automatic choroidal segmentation in OCT images using supervised deep learning methods. Scientific Reports, 2019, 9, 13298.	1.6	82
33	Repeatability of wideâ€field choroidal thickness measurements using enhancedâ€depth imaging optical coherence tomography. Australasian journal of optometry, The, 2019, 102, 327-334.	0.6	14
34	Wide-field choroidal thickness in myopes and emmetropes. Scientific Reports, 2019, 9, 3474.	1.6	50
35	IMI â€“ Clinical Myopia Control Trials and Instrumentation Report. , 2019, 60, M132.		91
36	IMI â€“ Interventions for Controlling Myopia Onset and Progression Report. , 2019, 60, M106.		230

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37	Regional alterations in human choroidal thickness in response to shortâ€term monocular hemifield myopic defocus. Ophthalmic and Physiological Optics, 2019, 39, 172-182.	1.0	24
38	Constructing Synthetic Chorio-Retinal Patches using Generative Adversarial Networks. , 2019, , .		6
39	Choroidal changes in human myopia: insights from optical coherence tomography imaging. Australasian journal of optometry, The, 2019, 102, 270-285.	0.6	99
40	Impact of image averaging on wideâ€field choroidal thickness measurements using enhancedâ€depth imaging optical coherence tomography. Australasian journal of optometry, The, 2019, 102, 320-326.	0.6	11
41	Influence of seasons upon personal light exposure and longitudinal axial length changes in young adults. Acta Ophthalmologica, 2019, 97, e256-e265.	0.6	18
42	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
43	The interaction between homatropine and optical blur on choroidal thickness. Ophthalmic and Physiological Optics, 2018, 38, 257-265.	1.0	18
44	Automatic segmentation of OCT retinal boundaries using recurrent neural networks and graph search. Biomedical Optics Express, 2018, 9, 5759.	1.5	92
45	Dim Light Exposure and Myopia in Children. , 2018, 59, 4804.		43
46	Patterns of Daily Outdoor Light Exposure in Australian and Singaporean Children. Translational Vision Science and Technology, 2018, 7, 8.	1.1	39
47	Daily morning light therapy is associated with an increase in choroidal thickness in healthy young adults. Scientific Reports, 2018, 8, 8200.	1.6	34
48	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
49	Anterior scleral thickness changes with accommodation in myopes and emmetropes. Experimental Eye Research, 2018, 177, 96-103.	1.2	22
50	Does transient increase in axial length during accommodation attenuate with age?. Australasian journal of optometry, The, 2017, 100, 676-682.	0.6	9
51	Measurement Duration and Frequency Impact Objective Light Exposure Measures. Optometry and Vision Science, 2017, 94, 588-597.	0.6	16
52	Longitudinal changes in macular retinal layer thickness in pediatric populations: Myopic vs non-myopic eyes. PLoS ONE, 2017, 12, e0180462.	1.1	34
53	The effect of aberrations on objectively assessed image quality and depth of focus. Journal of Vision, 2017, 17, 2.	0.1	11
54	Tissue thickness calculation in ocular optical coherence tomography. Biomedical Optics Express, 2016, 7, 629.	1.5	38

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55	Imaging the visual system: from the eye to the brain. Ophthalmic and Physiological Optics, 2016, 36, 213-217.	1.0	2
56	Anterior eye tissue morphology: Scleral and conjunctival thickness in children and young adults. Scientific Reports, 2016, 6, 33796.	1.6	59
57	Ocular and Environmental Factors Associated with Eye Growth in Childhood. Optometry and Vision Science, 2016, 93, 1031-1041.	0.6	17
58	Diurnal variation of anterior scleral and conjunctival thickness. Ophthalmic and Physiological Optics, 2016, 36, 279-289.	1.0	33
59	14. T he cornea. , 2016, , 187-210.		0
60	The shortâ€term accommodation response to anisoâ€accommodative stimuli in isometropia. Ophthalmic and Physiological Optics, 2015, 35, 552-561.	1.0	16
61	MACULAR RETINAL LAYER THICKNESS IN CHILDHOOD. Retina, 2015, 35, 1223-1233.	1.0	50
62	Light Exposure and Eye Growth in Childhood. , 2015, 56, 6779.		140
63	Regional Changes in Choroidal Thickness Associated With Accommodation. , 2015, 56, 6414.		86
64	Longitudinal Changes in Choroidal Thickness and Eye Growth in Childhood. , 2015, 56, 3103.		126
65	Peripapillary choroidal thickness in childhood. Experimental Eye Research, 2015, 135, 164-173.	1.2	27
66	The effect of topical adrenergic and anticholinergic agents on the choroidal thickness of young healthy adults. Experimental Eye Research, 2014, 128, 181-189.	1.2	63
67	Diurnal Variations in Ocular Aberrations of Human Eyes. Current Eye Research, 2014, 39, 271-281.	0.7	10
68	Wavefront Refraction and Correction. Optometry and Vision Science, 2014, 91, 1154-1155.	0.6	5
69	Axial Elongation Associated with Biomechanical Factors during Near Work. Optometry and Vision Science, 2014, 91, 322-329.	0.6	32
70	Light Exposure and Physical Activity in Myopic and Emmetropic Children. Optometry and Vision Science, 2014, 91, 330-341.	0.6	132
71	The visual and functional impacts of astigmatism and its clinical management. Ophthalmic and Physiological Optics, 2014, 34, 267-294.	1.0	80
72	Progressive adult antimetropia. Australasian journal of optometry, The, 2014, 97, 375-378.	0.6	3

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73	Myopic anisometropia: ocular characteristics and aetiological considerations. Australasian journal of optometry, The, 2014, 97, 291-307.	0.6	62
74	Application of texture analysis in tear film surface assessment based on videokeratoscopy. Journal of Optometry, 2013, 6, 185-193.	0.7	11
75	Corneal changes following near work in myopic anisometropia. Ophthalmic and Physiological Optics, 2013, 33, 15-25.	1.0	23
76	Retinal and Choroidal Thickness in Myopic Anisometropia. , 2013, 54, 2445.		62
77	Automatic segmentation of choroidal thickness in optical coherence tomography. Biomedical Optics Express, 2013, 4, 2795.	1.5	107
78	Hyperopic Defocus and Diurnal Changes in Human Choroid and Axial Length. Optometry and Vision Science, 2013, 90, 1187-1198.	0.6	85
79	Choroidal Thickness in Myopic and Nonmyopic Children Assessed With Enhanced Depth Imaging Optical Coherence Tomography. , 2013, 54, 7578.		160
80	Choroidal Thickness in Childhood. , 2013, 54, 3586.		138
81	Axial Length Changes with Shifts of Gaze Direction in Myopes and Emmetropes. , 2012, 53, 6465.		26
82	Tear Film Surface Quality With Rigid and Soft Contact Lenses. Eye and Contact Lens, 2012, 38, 171-178.	0.8	23
83	Noninvasive In Vivo Assessment of Soft Contact Lens Type on Tear Film Surface Quality. , 2012, 53, 525.		33
84	Imaging and Measurement in the Eye. Optometry and Vision Science, 2012, 89, 521-523.	0.6	2
85	Diurnal Variation of Retinal Thickness with Spectral Domain OCT. Optometry and Vision Science, 2012, 89, 611-619.	0.6	24
86	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
87	Axial length and choroidal thickness changes accompanying prolonged accommodation in myopes and emmetropes. Vision Research, 2012, 72, 34-41.	0.7	88
88	Author Response: Axial Length Changes with Shifts of Gaze in Myopes and Emmetropes. , 2012, 53, 7636.		0
89	Corneal changes following short-term rigid contact lens wear. Contact Lens and Anterior Eye, 2012, 35, 129-136.	0.8	11
90	Monocular amblyopia and higher order aberrations. Vision Research, 2012, 66, 39-48.	0.7	20

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91	Measurement of ocular aberrations in downward gaze using a modified clinical aberrometer. Biomedical Optics Express, 2011, 2, 452.	1.5	7
92	Intraocular pressure in keratoconus. Acta Ophthalmologica, 2011, 89, 358-364.	0.6	8
93	Interocular Symmetry in Myopic Anisometropia. Optometry and Vision Science, 2011, 88, 1454-1462.	0.6	39
94	The influence of downward gaze and accommodation on ocular aberrations over time. Journal of Vision, 2011, 11, 17-17.	0.1	18
95	Diurnal Variations in Axial Length, Choroidal Thickness, Intraocular Pressure, and Ocular Biometrics. , 2011, 52, 5121.		373
96	The shortâ€term influence of elevated intraocular pressure on axial length. Ophthalmic and Physiological Optics, 2011, 31, 398-403.	1.0	26
97	Predicting Dry Eye Using Noninvasive Techniques of Tear Film Surface Assessment. , 2011, 52, 751.		48
98	Speckle reduction in optical coherence tomography imaging by affine-motion image registration. Journal of Biomedical Optics, 2011, 16, 116027.	1.4	64
99	Validation of Optical Low Coherence Reflectometry Retinal and Choroidal Biometry. Optometry and Vision Science, 2011, 88, 855-863.	0.6	23
100	The short-term influence of exercise on axial length and intraocular pressure. Eye, 2011, 25, 767-774.	1.1	58
101	Axial elongation following prolonged near work in myopes and emmetropes. British Journal of Ophthalmology, 2011, 95, 652-656.	2.1	45
102	Peripheral Ocular Aberrations in Mild and Moderate Keratoconus. , 2010, 51, 6850.		24
103	Human Optical Axial Length and Defocus. , 2010, 51, 6262.		148
104	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.	1.4	29
105	Changes in intraocular pressure and ocular pulse amplitude with accommodation. British Journal of Ophthalmology, 2010, 94, 332-335.	2.1	49
106	Axial Length Changes During Accommodation in Myopes and Emmetropes. Optometry and Vision Science, 2010, 87, 656-662.	0.6	76
107	Regional Changes in Corneal Thickness and Shape with Soft Contact Lenses. Optometry and Vision Science, 2010, 87, 567-575.	0.6	35
108	Sustained Convergence, Axial Length, and Corneal Topography. Optometry and Vision Science, 2010, 87, E45-E52.	0.6	7

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109	Water drinking influences eye length and IOP in young healthy subjects. Experimental Eye Research, 2010, 91, 180-185.	1.2	29
110	Unilateral pseudogerontoxon. Australasian journal of optometry, The, 2009, 92, 150-153.	0.6	1
111	Corneal topography with Scheimpflug imaging and videokeratography: Comparative study of normal eyes. Journal of Cataract and Refractive Surgery, 2009, 35, 1072-1081.	0.7	90
112	Repeatability and validity of lens densitometry measured with Scheimpflug imaging. Journal of Cataract and Refractive Surgery, 2009, 35, 1210-1215.	0.7	82
113	Diurnal Variation of Corneal Shape and Thickness. Optometry and Vision Science, 2009, 86, 170-180.	0.6	128
114	Diurnal Variation of Axial Length, Intraocular Pressure, and Anterior Eye Biometrics. , 2008, 49, 2911.		137
115	Extrapolation of Central Corneal Topography Into the Periphery. Eye and Contact Lens, 2007, 33, 293-299.	0.8	5
116	Influence of accommodation on the anterior and posterior cornea. Journal of Cataract and Refractive Surgery, 2007, 33, 1877-1885.	0.7	40
117	The Influence of Eyelid Morphology on Normal Corneal Shape. , 2007, 48, 112.		74
118	A review of astigmatism and its possible genesis. Australasian journal of optometry, The, 2007, 90, 5-19.	0.6	211
119	The Topography of the Central and Peripheral Cornea. , 2006, 47, 1404.		101
120	The Morphology of the Palpebral Fissure in Different Directions of Vertical Gaze. Optometry and Vision Science, 2006, 83, 715-722.	0.6	28
121	The Diurnal Variation of Corneal Topography and Aberrations. Cornea, 2005, 24, 678-687.	0.9	48