Carol Y Cheung

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7023789/publications.pdf

Version: 2024-02-01

242 papers	9,190 citations	50566 48 h-index	78623 77 g-index
246 all docs	246 docs citations	246 times ranked	8993 citing authors

#	Article	IF	Citations
1	OCT-based biomarkers for predicting treatment response in eyes with centre-involved diabetic macular oedema treated with anti-VEGF injections: a real-life retina clinic-based study. British Journal of Ophthalmology, 2023, 107, 525-533.	2.1	15
2	Relationship between macular intercapillary area measured by optical coherence tomography angiography and central visual field sensitivity in normal tension glaucoma. British Journal of Ophthalmology, 2023, 107, 816-822.	2.1	3
3	Clinically relevant factors associated with a binary outcome of diabetic macular ischaemia: an OCTA study. British Journal of Ophthalmology, 2023, 107, 1311-1318.	2.1	6
4	Retinal parameters, cortical cerebral microinfarcts, and their interaction with cognitive impairment. International Journal of Stroke, 2023, 18, 70-77.	2.9	7
5	The cross-sectional and longitudinal relationship of diabetic retinopathy to cognitive impairment: a systematic review and meta-analysis. Eye, 2023, 37, 220-227.	1.1	3
6	Utilisation of poor-quality optical coherence tomography scans: adjustment algorithm from the Singapore Epidemiology of Eye Diseases (SEED) study. British Journal of Ophthalmology, 2022, 106, 962-969.	2.1	3
7	Association of foveal avascular zone area withstructural and functional progression in glaucoma patients. British Journal of Ophthalmology, 2022, 106, 1245-1251.	2.1	14
8	Intraocular Pressure Control Predicts Retinal Nerve Fiber Layer Thinning in Primary Angle Closure Disease: The CUPAL Study. American Journal of Ophthalmology, 2022, 234, 205-214.	1.7	2
9	A MULTITASK DEEP-LEARNING SYSTEM FOR ASSESSMENT OF DIABETIC MACULAR ISCHEMIA ON OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY IMAGES. Retina, 2022, 42, 184-194.	1.0	10
10	Retinal Nerve Fiber Layer Thickness and Rim Area Profiles in Asians. Ophthalmology, 2022, 129, 552-561.	2.5	8
11	Re: Xiong etÂal.: Multimodal machine learning using visual fields and peripapillary circular OCT scans in detection of glaucomatous optic neuropathy (Ophthalmology. 2021 Jul 30;S0161-6420(21)00565-0. doi:) Tj ETQq1 1 0.784314 rg	2q1	84
12	The Association of Choroidal Thickening by Atropine With Treatment Effects for Myopia: Two-Year Clinical Trial of the Low-concentration Atropine for Myopia Progression (LAMP) Study. American Journal of Ophthalmology, 2022, 237, 130-138.	1.7	39
13	Artificial Intelligence for Retinopathy of Prematurity. Ophthalmology, 2022, 129, e69-e76.	2.5	23
14	Artificial Intelligence and Deep Learning in Ophthalmology. , 2022, , 1519-1552.		5
15	Hypertensive eye disease. Nature Reviews Disease Primers, 2022, 8, 14.	18.1	25
16	A multi-regression framework to improve diagnostic ability of optical coherence tomography retinal biomarkers to discriminate mild cognitive impairment and Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2022, 14, 41.	3.0	4
17	Optical coherence tomography angiography metrics predict normal tension glaucoma progression. Acta Ophthalmologica, 2022, 100, .	0.6	7
18	Alterations in the Choroidal Sublayers in Relationship to Severity and Progression of Diabetic Retinopathy. Ophthalmology Science, 2022, 2, 100130.	1.0	5

#	Article	IF	Citations
19	Optical Coherence Tomography Classification Systems for Diabetic Macular Edema and Their Associations With Visual Outcome and Treatment Responses â€“ An Updated Review. Asia-Pacific Journal of Ophthalmology, 2022, 11, 247-257.	1.3	17
20	Deep Learning for Glaucoma Detection and Identification of Novel Diagnostic Areas in Diverse Real-World Datasets. Translational Vision Science and Technology, 2022, 11, 11.	1.1	9
21	Concordance between SIVA, IVAN, and VAMPIRE Software Tools for Semi-Automated Analysis of Retinal Vessel Caliber. Diagnostics, 2022, 12, 1317.	1.3	6
22	Retinal vascular profile in predicting incident cardiometabolic diseases among individuals with diabetes. Microcirculation, 2022, 29, .	1.0	4
23	A deep-learning system for the assessment of cardiovascular disease risk via the measurement of retinal-vessel calibre. Nature Biomedical Engineering, 2021, 5, 498-508.	11.6	131
24	Analysis of choriocapillaris perfusion and choroidal layer changes in patients with chronic central serous chorioretinopathy randomised to micropulse laser or photodynamic therapy. British Journal of Ophthalmology, 2021, 105, 555-560.	2.1	34
25	Assessment of retinal neurodegeneration with spectral-domain optical coherence tomography: a systematic review and meta-analysis. Eye, 2021, 35, 1317-1325.	1.1	21
26	Different effect of media opacity on automated and manual measurement of foveal avascular zone of optical coherence tomography angiographies. British Journal of Ophthalmology, 2021, 105, 812-818.	2.1	15
27	Deep learning in glaucoma with optical coherence tomography: a review. Eye, 2021, 35, 188-201.	1.1	53
28	Exposure to Secondhand Smoke in Children is Associated with a Thinner Retinal Nerve Fiber Layer: The Hong Kong Children Eye Study. American Journal of Ophthalmology, 2021, 223, 91-99.	1.7	14
29	Optical coherence tomography angiography in diabetic retinopathy: an updated review. Eye, 2021, 35, 149-161.	1.1	94
30	Vision, vision-specific functioning and mobility, and their relationship with clinically assessed cognitive impairment. Age and Ageing, 2021, 50, 1236-1242.	0.7	3
31	Artificial Intelligence and Deep Learning in Ophthalmology. , 2021, , 1-34.		10
32	Artificial intelligence and machine learning for Alzheimerâ€™s disease: letâ€™s not forget about the retina. British Journal of Ophthalmology, 2021, 105, 593-594.	2.1	9
33	Longitudinal Changes in Macular Optical Coherence Tomography Angiography Metrics in Primary Open-Angle Glaucoma With High Myopia: A Prospective Study. , 2021, 62, 30.		21
34	Nonâ€invasive structural and metabolic retinal markers of disease activity in nonâ€proliferative diabetic retinopathy. Acta Ophthalmologica, 2021, 99, 790-796.	0.6	4
35	Detection of Diabetic Retinopathy from Ultra-Widefield Scanning Laser Ophthalmoscope Images: A Multicenter Deep Learning Analysis. Ophthalmology Retina, 2021, 5, 1097-1106.	1.2	36
36	Independent and Synergistic Effects of High Blood Pressure and Obesity on Retinal Vasculature in Young Children: The Hong Kong Children Eye Study. Journal of the American Heart Association, 2021, 10, e018485.	1.6	7

#	Article	IF	Citations
37	Retinal microvascular signs and risk of diabetic kidney disease in asian and white populations. Scientific Reports, 2021, 11, 4898.	1.6	12
38	Characterization of macular choroid in normalâ€tension glaucoma: a sweptâ€source optical coherence tomography study. Acta Ophthalmologica, 2021, 99, e1421-e1429.	0.6	7
39	Deep Learning-Based Optical Coherence Tomography and Optical Coherence Tomography Angiography Image Analysis: An Updated Summary. Asia-Pacific Journal of Ophthalmology, 2021, 10, 253-260.	1.3	18
40	Retinal imaging in Alzheimerâ€™s disease. Journal of Neurology, Neurosurgery and Psychiatry, 2021, 92, 983-994.	0.9	46
41	Understanding Visual Acuity Outcomes After Retinal Detachment Repair by Assessing Photoreceptor Integrity on Spectral-Domain Optical Coherence Tomography. JAMA Ophthalmology, 2021, 139, 627.	1.4	1
42	A Multitask Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multicenter Analysis. Diabetes Care, 2021, 44, 2078-2088.	4.3	27
43	Comparison of choroidal thickness measurements between spectral domain optical coherence tomography and swept source optical coherence tomography in children. Scientific Reports, 2021, 11, 13749.	1.6	4
44	Impact of type 2 diabetes and microvascular complications on mortality and cardiovascular outcomes in a multiethnic Asian population. BMJ Open Diabetes Research and Care, 2021, 9, e001413.	1.2	8
45	Deep-Learningâ€“Based Pre-Diagnosis Assessment Module for Retinal Photographs: A Multicenter Study. Translational Vision Science and Technology, 2021, 10, 16.	1.1	11
46	Association of Retinal Microvascular Signs with Incident Atrial Fibrillation. Ophthalmology Retina, 2021, 5, 78-85.	1.2	2
47	Artificial Intelligence Using the Eye as a Biomarker of Systemic Risk. , 2021, , 243-255.		3
48	Objective Quantitative Evaluation of Angle Closure. , 2021, , 19-30.		0
49	The Application of Optical Coherence Tomography Angiography in Systemic Hypertension: A Meta-Analysis. Frontiers in Medicine, 2021, 8, 778330.	1.2	15
50	Comparison of optical coherence tomography angiography metrics in primary angle-closure glaucoma and normal-tension glaucoma. Scientific Reports, 2021, 11, 23136.	1.6	9
51	Comparison of Peripapillary Vessel Density of Acute Nonarteritic Anterior Ischemic Optic Neuropathy and Other Optic Neuropathies With Disc Swelling Using Optical Coherence Tomography Angiography: A Pilot Study. Journal of Neuro-Ophthalmology, 2021, 41, e470-e482.	0.4	4
52	Associations Between Diabetic Retinal Microvasculopathy and Neuronal Degeneration Assessed by Swept-Source OCT and OCT Angiography. Frontiers in Medicine, 2021, 8, 778283.	1.2	6
53	Association of Corneal Biomechanics Properties with Myopia in a Child and a Parent Cohort: Hong Kong Children Eye Study. Diagnostics, 2021, 11, 2357.	1.3	4
54	Compensation of retinal nerve fibre layer thickness as assessed using optical coherence tomography based on anatomical confounders. British Journal of Ophthalmology, 2020, 104, 282-290.	2.1	25

#	Article	IF	Citations
55	Exploring choroidal angioarchitecture in health and disease using choroidal vascularity index. Progress in Retinal and Eye Research, 2020, 77, 100829.	7.3	144
56	Intraocular pressure control and visual field changes in primary angle closure disease: the CUHK PACG Longitudinal (CUPAL) study. British Journal of Ophthalmology, 2020, 104, 629-635.	2.1	7
57	Reliability of foveal avascular zone metrics automatically measured by Cirrus optical coherence tomography angiography in healthy subjects. International Ophthalmology, 2020, 40, 763-773.	0.6	23
58	Improved Automated Foveal Avascular Zone Measurement in Cirrus Optical Coherence Tomography Angiography Using the Level Sets Macro. Translational Vision Science and Technology, 2020, 9, 20.	1.1	15
59	Retinal microvasculature dysfunction is associated with Alzheimerâ€™s disease and mild cognitive impairment. Alzheimer's Research and Therapy, 2020, 12, 161.	3.0	48
60	Different Effect of Media Opacity on Vessel Density Measured by Different Optical Coherence Tomography Angiography Algorithms. Translational Vision Science and Technology, 2020, 9, 19.	1.1	20
61	Global assessment of arteriolar, venular and capillary changes in normal tension glaucoma. Scientific Reports, 2020, 10, 19222.	1.6	14
62	Artificial Intelligence in Ophthalmology: Evolutions in Asia. Asia-Pacific Journal of Ophthalmology, 2020, 9, 78-84.	1.3	18
63	A deep learning algorithm to detect chronic kidney disease from retinal photographs in community-based populations. The Lancet Digital Health, 2020, 2, e295-e302.	5.9	130
64	UD-MIL: Uncertainty-Driven Deep Multiple Instance Learning for OCT Image Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3431-3442.	3.9	47
65	Effect of weight loss on the retinochoroidal structural alterations among patients with exogenous obesity. PLoS ONE, 2020, 15, e0235926.	1.1	16
66	Association of Optical Coherence Tomography Angiography Metrics With Detection of Impaired Macular Microvasculature and Decreased Vision in Amblyopic Eyes. JAMA Ophthalmology, 2020, 138, 858.	1.4	33
67	A 3D Deep Learning System for Detecting Referable Glaucoma Using Full OCT Macular Cube Scans. Translational Vision Science and Technology, 2020, 9, 12.	1.1	38
68	Profile of retinal nerve fibre layer symmetry in a multiethnic Asian population: the Singapore Epidemiology of Eye Diseases study. British Journal of Ophthalmology, 2020, 104, 836-841.	2.1	8
69	Profiles of Ganglion Cell-Inner Plexiform Layer Thickness in a Multi-Ethnic Asian Population. Ophthalmology, 2020, 127, 1064-1076.	2.5	29
70	Retinal Vascular Signs and Cerebrovascular Diseases. Journal of Neuro-Ophthalmology, 2020, 40, 44-59.	0.4	48
71	High prevalence of myopia in children and their parents in Hong Kong Chinese Population: the Hong Kong Children Eye Study. Acta Ophthalmologica, 2020, 98, e639.	0.6	83
72	Clinically relevant factors associated with quantitative optical coherence tomography angiography metrics in deep capillary plexus in patients with diabetes. Eye and Vision (London, England), 2020, 7, 7.	1.4	44

#	Article	IF	Citations
73	Artificial Intelligence to Detect Papilledema from Ocular Fundus Photographs. New England Journal of Medicine, 2020, 382, 1687-1695.	13.9	214
74	Towards multi-center glaucoma OCT image screening with semi-supervised joint structure and function multi-task learning. Medical Image Analysis, 2020, 63, 101695.	7.0	47
75	The role of retinal imaging in Alzheimer's disease. , 2020, , 345-363.		0
76	Title is missing!. , 2020, 15, e0235926.		0
77	Title is missing!. , 2020, 15, e0235926.		0
78	Title is missing!. , 2020, 15, e0235926.		0
79	Title is missing!. , 2020, 15, e0235926.		0
80	Title is missing!. , 2020, 15, e0235926.		0
81	Title is missing!. , 2020, 15, e0235926.		0
82	Relationship of intercapillary area with visual acuity in diabetes mellitus: an optical coherence tomography angiography study. British Journal of Ophthalmology, 2019, 103, 604-609.	2.1	21
83	Repeatability, interocular correlation and agreement of quantitative swept-source optical coherence tomography angiography macular metrics in healthy subjects. British Journal of Ophthalmology, 2019, 103, 415-420.	2.1	41
84	Quantitative retinal microvasculature in children using swept-source optical coherence tomography: the Hong Kong Children Eye Study. British Journal of Ophthalmology, 2019, 103, 672-679.	2.1	51
85	Artificial Intelligence Screening for Diabetic Retinopathy: the Real-World Emerging Application. Current Diabetes Reports, 2019, 19, 72.	1.7	107
86	Detection of glaucomatous optic neuropathy with spectral-domain optical coherence tomography: a retrospective training and validation deep-learning analysis. The Lancet Digital Health, 2019, 1, e172-e182.	5.9	97
87	OCT Angiography Metrics Predict Progression of Diabetic Retinopathy and Development of Diabetic Macular Edema. Ophthalmology, 2019, 126, 1675-1684.	2.5	193
88	Association of Secondhand Smoking Exposure With Choroidal Thinning in Children Aged 6 to 8 Years. JAMA Ophthalmology, 2019, 137, 1406.	1.4	31
89	Development and Validation of a Deep Learning System to Detect Glaucomatous Optic Neuropathy Using Fundus Photographs. JAMA Ophthalmology, 2019, 137, 1353.	1.4	188
90	Association between diabetic retinopathy and incident cognitive impairment. British Journal of Ophthalmology, 2019, 103, 1605-1609.	2.1	29

#	Article	IF	Citations
91	The Effect of Gender on Visual Field Sensitivity: The Singapore Chinese Eye Study. Ophthalmic Epidemiology, 2019, 26, 183-188.	0.8	2
92	Normative pattern and determinants of outer retinal thickness in an Asian population: the Singapore Epidemiology of Eye Diseases Study. British Journal of Ophthalmology, 2019, 103, 1406-1412.	2.1	5
93	Comorbidity of dementia and age-related macular degeneration calls for clinical awareness: a meta-analysis. British Journal of Ophthalmology, 2019, 103, bjophthalmol-2018-313277.	2.1	33
94	The Question of Prescribing Calcium Supplements to Patients at High Risk of Age-Related Macular Degeneration. JAMA Ophthalmology, 2019, 137, 550.	1.4	3
95	Deep learning in estimating prevalence and systemic risk factors for diabetic retinopathy: a multi-ethnic study. Npj Digital Medicine, 2019, 2, 24.	5.7	53
96	Artificial intelligence deep learning algorithm for discriminating ungradable optical coherence tomography three-dimensional volumetric optic disc scans. Neurophotonics, 2019, 6, 1.	1.7	13
97	Artificial Intelligence in Diabetic Eye Disease Screening. Asia-Pacific Journal of Ophthalmology, 2019, 8, .	1.3	20
98	Age-related changes of individual macular retinal layers among Asians. Scientific Reports, 2019, 9, 20352.	1.6	24
99	Non-mydriatic ultrawide field scanning laser ophthalmoscopy compared with dilated fundal examination for assessment of diabetic retinopathy and diabetic macular oedema in Chinese individuals with diabetes mellitus. British Journal of Ophthalmology, 2019, 103, 1327-1331.	2.1	13
100	Potential retinal biomarkers for dementia: what is new?. Current Opinion in Neurology, 2019, 32, 82-91.	1.8	47
101	Spectral-Domain OCT Measurements in Alzheimerâ€™s Disease. Ophthalmology, 2019, 126, 497-510.	2.5	236
102	Retinal Nerve Fiber Layer Thickness in a Multiethnic Normal Asian Population. Ophthalmology, 2019, 126, 702-711.	2.5	49
103	The Relationship of Quantitative Retinal Capillary Network to Kidney Function in Type 2 Diabetes. American Journal of Kidney Diseases, 2018, 71, 916-918.	2.1	12
104	Impact of salvage treatment modalities in patients with positive FDGâ€PET/CT after Râ€CHOP chemotherapy for aggressive Bâ€cell nonâ€Hodgkin lymphoma. Journal of Medical Imaging and Radiation Oncology, 2018, 62, 432-439.	0.9	1
105	Factors affecting signal strength in spectralâ€domain optical coherence tomography. Acta Ophthalmologica, 2018, 96, e54-e58.	0.6	17
106	The Effect of Testing Reliability on Visual Field Sensitivity in Normal Eyes. Ophthalmology, 2018, 125, 15-21.	2.5	27
107	Macular thickness profile and diabetic retinopathy: the Singapore Epidemiology of Eye Diseases Study. British Journal of Ophthalmology, 2018, 102, 1072-1076.	2.1	15
108	Macro- and Microvascular Parameters After Toxic Shock Syndrome. Pediatric Infectious Disease Journal, 2018, 37, e228-e230.	1.1	0

#	Article	IF	Citations
109	Dynamic changes in retinal vessel diameter during acute hyperglycemia in type 1 diabetes. Journal of Diabetes and Its Complications, 2018, 32, 234-239.	1.2	7
110	Association of serum lutein and zeaxanthin with quantitative measures of retinal vascular parameters. PLoS ONE, 2018, 13, e0203868.	1.1	8
111	Transforming Retinal Photographs to Entropy Images in Deep Learning to Improve Automated Detection for Diabetic Retinopathy. Journal of Ophthalmology, 2018, 2018, 1-6.	0.6	57
112	The Relationship of Retinal Vessel Geometric Characteristics to the Incidence and Progression of Diabetic Retinopathy. Ophthalmology, 2018, 125, 1784-1792.	2.5	26
113	Diagnostic accuracy of macular ganglion cell-inner plexiform layer thickness for glaucoma detection in a population-based study: Comparison with optic nerve head imaging parameters. PLoS ONE, 2018, 13, e0199134.	1.1	23
114	Factors Associated With Long-term Intraocular Pressure Fluctuation in Primary Angle Closure Disease: The CUHK PACG Longitudinal (CUPAL) Study. Journal of Glaucoma, 2018, 27, 703-710.	0.8	12
115	Editorial to 'Triple Vessel Coronary Artery Disease and Retinal Nerve Fibre Layer Thickness'. Annals of the Academy of Medicine, Singapore, 2018, 47, 206-207.	0.2	0
116	Refining the definition of the choroidalâ€“scleral interface. Acta Ophthalmologica, 2017, 95, e243-e244.	0.6	0
117	Imaging retina to study dementia and stroke. Progress in Retinal and Eye Research, 2017, 57, 89-107.	7.3	195
118	Retinopathy Signs Improved Prediction and Reclassification of Cardiovascular Disease Risk in Diabetes: A prospective cohort study. Scientific Reports, 2017, 7, 41492.	1.6	27
119	Evidence of Microvascular Changes in the Retina following Kawasaki Disease. Scientific Reports, 2017, 7, 40513.	1.6	8
120	Optical coherence tomography angiography in acute non-arteritic anterior ischaemic optic neuropathy. British Journal of Ophthalmology, 2017, 101, 1045-1051.	2.1	89
121	Singapore Indian Eye Studyâ€2: methodology and impact of migration on systemic and eye outcomes. Clinical and Experimental Ophthalmology, 2017, 45, 779-789.	1.3	65
122	Determinants of Quantitative Optical Coherence Tomography Angiography Metrics in Patients with Diabetes. Scientific Reports, 2017, 7, 2575.	1.6	154
123	Availability and variability in guidelines on diabetic retinopathy screening in Asian countries. British Journal of Ophthalmology, 2017, 101, 1352-1360.	2.1	62
124	An anomaly detection approach for the identification of DME patients using spectral domain optical coherence tomography images. Computer Methods and Programs in Biomedicine, 2017, 139, 109-117.	2.6	50
125	Retinal vasculature in glaucoma: a review. BMJ Open Ophthalmology, 2017, 1, e000032.	0.8	102
126	Using Retinal Imaging to Study Dementia. Journal of Visualized Experiments, 2017, , .	0.2	12

#	Article	IF	Citations
127	Retinal Vessel Geometry and the Incidence and Progression of Diabetic Retinopathy. , 2017, 58, BIO200.		29
128	Quantitative Retinal Optical Coherence Tomography Angiography in Patients With Diabetes Without Diabetic Retinopathy. , 2017, 58, 1766.		16
129	Gestational hypertensive disorders and retinal microvasculature: the Generation R Study. BMC Medicine, 2017, 15, 153.	2.3	14
130	Reduced Macular Vascular Density in Myopic Eyes. Chinese Medical Journal, 2017, 130, 445-451.	0.9	64
131	Retinal Vessel Tortuosity and Its Relation to Traditional and Novel Vascular Risk Markers in Persons with Diabetes. Current Eye Research, 2016, 41, 1-7.	0.7	33
132	Posterior Eye Shape Measurement With Retinal OCT Compared to MRI. , 2016, 57, OCT196.		39
133	Classification of SD-OCT Volumes Using Local Binary Patterns: Experimental Validation for DME Detection. Journal of Ophthalmology, 2016, 2016, 1-14.	0.6	105
134	Choroidal thickness does not predict visual acuity in young high myopes. Acta Ophthalmologica, 2016, 94, e709-e715.	0.6	21
135	Structural Differences in the Optic Nerve Head of Glaucoma Patients With and Without Disc Hemorrhages. Journal of Glaucoma, 2016, 25, e76-e81.	0.8	7
136	Relationship of ocular and systemic factors to the visibility of choroidalâ€“scleral interface using spectral domain optical coherence tomography. Acta Ophthalmologica, 2016, 94, e142-9.	0.6	19
137	Metastatic lobular breast cancer diagnosed from a blood film. British Journal of Haematology, 2016, 173, 177-177.	1.2	2
138	Outbreak of respiratory syncytial virus (RSV) infection in immunocompromised adults on a hematology ward. Journal of Medical Virology, 2016, 88, 1827-1831.	2.5	19
139	Classifying DME vs normal SD-OCT volumes: A review. , 2016, , .		9
140	Cortical cerebral microinfarcts on 3T MRI. Neurology, 2016, 87, 1583-1590.	1.5	101
141	Retinal ganglion cell neuronal damage in diabetes and diabetic retinopathy. Clinical and Experimental Ophthalmology, 2016, 44, 243-250.	1.3	108
142	The Association Between Retinal Neuronal Layer and Brain Structure is Disrupted inÂPatients with Cognitive Impairment andÂAlzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 54, 585-595.	1.2	45
143	Associated factors for visibility and width of retrobulbar subarachnoid space on swept-source optical coherence tomography in high myopia. Scientific Reports, 2016, 6, 36723.	1.6	6
144	Classification of SD-OCT volumes with multi pyramids, LBP and HOG descriptors: Application to DME detections. , 2016, 2016, 1344-1347.		19

#	Article	IF	Citations
145	Bayesian reclassification statistics for assessing improvements in diagnostic accuracy. Statistics in Medicine, 2016, 35, 2574-2592.	0.8	2
146	Cup-to-Disc Ratio From Heidelberg Retina Tomograph 3 and High-Definition Optical Coherence Tomography Agrees Poorly With Clinical Assessment. Journal of Glaucoma, 2016, 25, 198-202.	0.8	7
147	Retinal Vein Occlusion in a Multi-Ethnic Asian Population: The Singapore Epidemiology of Eye Disease Study. Ophthalmic Epidemiology, 2016, 23, 6-13.	0.8	21
148	Determinants of pupil diameters and pupil dynamics in an adult Chinese population. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 929-936.	1.0	4
149	Retinal Imaging Techniques for Diabetic Retinopathy Screening. Journal of Diabetes Science and Technology, 2016, 10, 282-294.	1.3	111
150	Relationship Between Peripapillary Choroid and Retinal Nerve Fiber Layer Thickness in a Population-Based Sample of Nonglaucomatous Eyes. American Journal of Ophthalmology, 2016, 161, 4-11.e2.	1.7	25
151	Impact of Visual Impairment and Eye diseases on Mortality: the Singapore Malay Eye Study (SiMES). Scientific Reports, 2015, 5, 16304.	1.6	39
152	A prospective case-control study to investigate retinal microvascular changes in acute dengue infection. Scientific Reports, 2015, 5, 17183.	1.6	5
153	Choroidal thickness and high myopia: a caseâ€“control study of young <scp>C</scp>hinese men in <scp>S</scp>ingapore. Acta Ophthalmologica, 2015, 93, e585-92.	0.6	80
154	Retinal Microvascular Abnormalities and Risk of Renal Failure in Asian Populations. PLoS ONE, 2015, 10, e0118076.	1.1	33
155	Repeatability of Perimacular Ganglion Cell Complex Analysis with Spectral-Domain Optical Coherence Tomography. Journal of Ophthalmology, 2015, 2015, 1-5.	0.6	10
156	Ocular Fundus Photography as a Tool to Study Stroke and Dementia. Seminars in Neurology, 2015, 35, 481-490.	0.5	36
157	Peripapillary Choroidal Thickness in Young Asians With High Myopia. Investigative Ophthalmology and Visual Science, 2015, 56, 1475-1481.	3.3	63
158	Retinal vascular caliber between eyes with asymmetric glaucoma. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 583-589.	1.0	15
159	Peripapillary choroidal thickness assessed using automated choroidal segmentation software in an Asian population. British Journal of Ophthalmology, 2015, 99, 920-926.	2.1	27
160	High Prevalence of Undiagnosed Eye Diseases in Individuals with Dementia. Journal of the American Geriatrics Society, 2015, 63, 192-194.	1.3	6
161	Retinal microvascular network attenuation in Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2015, 1, 229-235.	1.2	122
162	Distribution and Determinants of Choroidal Thickness and Volume Using Automated Segmentation Software in a Population-Based Study. American Journal of Ophthalmology, 2015, 159, 293-301.e3.	1.7	73

#	Article	IF	Citations
163	Chronic kidney disease, cardiovascular disease and mortality: A prospective cohort study in a multi-ethnic Asian population. European Journal of Preventive Cardiology, 2015, 22, 1018-1026.	0.8	56
164	Retinal neurodegeneration on optical coherence tomography and cerebral atrophy. Neuroscience Letters, 2015, 584, 12-16.	1.0	97
165	Reliability and Determinants of Retinal Vessel Oximetry Measurements in Healthy Eyes. , 2014, 55, 7104.		44
166	Automatic nuclear cataract grading using image gradients. Journal of Medical Imaging, 2014, 1, 014502.	0.8	23
167	Measurement of Macular Fractal Dimension Using a Computer-Assisted Program. , 2014, 55, 2237.		32
168	Near Vision Impairment Is Associated With Cognitive Impairment in Type 2 Diabetes. Asia-Pacific Journal of Ophthalmology, 2014, 3, 17-22.	1.3	5
169	Beliefs and Adherence to Glaucoma Treatment. Journal of Glaucoma, 2014, 23, 293-298.	0.8	44
170	Retinal imaging. European Journal of Emergency Medicine, 2014, 21, 388-389.	0.5	8
171	Development and Reliability of Retinal Arteriolar Central Light Reflex Quantification System: A New Approach for Severity Grading. Investigative Ophthalmology and Visual Science, 2014, 55, 7975-7981.	3.3	5
172	Relationship Between Iris Surface Features and Angle Width in Asian Eyes. Investigative Ophthalmology and Visual Science, 2014, 55, 8144-8148.	3.3	18
173	The Relationship between Changes in Body Mass Index and Retinal Vascular Caliber in Children. Journal of Pediatrics, 2014, 165, 1166-1171.e1.	0.9	19
174	Microvascular network alterations in retina of subjects with cerebral small vessel disease. Neuroscience Letters, 2014, 577, 95-100.	1.0	73
175	Sectoral variations of iridocorneal angle width and iris volume in Chinese Singaporeans: a swept-source optical coherence tomography study. Graefe's Archive for Clinical and Experimental Ophthalmology, 2014, 252, 1127-1132.	1.0	29
176	Assessment of Iris Surface Features and TheirÂRelationship with Iris Thickness in Asian Eyes. Ophthalmology, 2014, 121, 1007-1012.	2.5	37
177	Retinal Vascular Imaging in Clinical Research. , 2014, , 1-20.		0
178	Assessment of trabecular meshwork width using swept source optical coherence tomography. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 1587-1592.	1.0	52
179	Retinal vascular changes and immune restoration in a cohort of HIV/AIDS patients on highly active antiretroviral therapy. Lancet, The, 2013, 382, S8.	6.3	0
180	Retinal Vascular Caliber as a Biomarker for Diabetes Microvascular Complications. Diabetes Care, 2013, 36, 750-759.	4.3	138

#	Article	IF	Citations
181	Differential Associations of Myopia with Major Age-related Eye Diseases. Ophthalmology, 2013, 120, 284-291.	2.5	130
182	Systemic Associations of Dynamic Retinal Vessel Analysis: A Review of Current Literature. Microcirculation, 2013, 20, 257-268.	1.0	64
183	Retinal Vessel Caliber and Lifelong Neuropsychological Functioning. Psychological Science, 2013, 24, 1198-1207.	1.8	39
184	Retinal Vascular Caliber Measurements: Clinical Significance, Current Knowledge and Future Perspectives. Ophthalmologica, 2013, 229, 125-136.	1.0	162
185	Validating Retinal Fundus Image Analysis Algorithms: Issues and a Proposal. , 2013, 54, 3546.		142
186	Refractive Errors and Age-related Macular Degeneration: A Systematic Review and Meta-Analysis. Ophthalmology, 2013, 120, 2058-2065.	2.5	41
187	Analysis of Anterior Segment Dynamics Using Anterior Segment Optical Coherence Tomography Before and After Laser Peripheral Iridotomy. JAMA Ophthalmology, 2013, 131, 44.	1.4	22
188	Relationship between ganglion cell-inner plexiform layer and optic disc/retinal nerve fibre layer parameters in non-glaucomatous eyes. British Journal of Ophthalmology, 2013, 97, 1592-1597.	2.1	20
189	Prevalence of cognitive impairment in Chinese: Epidemiology of Dementia in Singapore study. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, 686-692.	0.9	76
190	Retinal vascular fractal and blood pressure in a multiethnic population. Journal of Hypertension, 2013, 31, 2036-2042.	0.3	24
191	Myopia and Cognitive Dysfunction: The Singapore Malay Eye Study. , 2013, 54, 799.		39
192	Retinal Vascular Parameter Variations in Patients With Human Immunodeficiency Virus. , 2013, 54, 7962.		14
193	Domain prior based superpixel propagation for optic cup localization. , 2013, , .		1
194	Validity of a new optic disc grading software for use in clinical and epidemiological research. Clinical and Experimental Ophthalmology, 2013, 41, 842-852.	1.3	9
195	Determinants of Macular Thickness Using Spectral Domain Optical Coherence Tomography in Healthy Eyes: The Singapore Chinese Eye Study. , 2013, 54, 7968.		62
196	Cataract Conversion Assessment using Lens Opacity Classification System III and Wisconsin Cataract Grading System. , 2013, 54, 280.		21
197	Microvascular Structure and Network in the Retina of Patients With Ischemic Stroke. Stroke, 2013, 44, 2121-2127.	1.0	120
198	Associations of Iris Structural Measurements in a Chinese Population: The Singapore Chinese Eye Study. , 2013, 54, 2829.		31

#	Article	IF	Citations
199	Relationship Between Retinal Vascular Geometry With Retinal Nerve Fiber Layer and Ganglion Cell-Inner Plexiform Layer in Nonglaucomatous Eyes. , 2013, 54, 7309.		31
200	Automatic Grading of Nuclear Cataracts from Slit-Lamp Lens Images Using Group Sparsity Regression. Lecture Notes in Computer Science, 2013, 16, 468-475.	1.0	43
201	Comparison of scanning laser ophthalmoscopy and high-definition optical coherence tomography measurements of optic disc parameters. British Journal of Ophthalmology, 2012, 96, 576-580.	2.1	13
202	Retinal Nerve Fiber Layer Imaging with Spectral-Domain Optical Coherence Tomography. Asia-Pacific Journal of Ophthalmology, 2012, 1, 19-23.	1.3	11
203	Determinants of Ganglion Cellâ€“Inner Plexiform Layer Thickness Measured by High-Definition Optical Coherence Tomography. , 2012, 53, 5853.		118
204	Classification Algorithms Enhance the Discrimination of Glaucoma from Normal Eyes Using High-Definition Optical Coherence Tomography. , 2012, 53, 2314.		32
205	Automatic pterygium detection on cornea images to enhance computer-aided cortical cataract grading system. , 2012, 2012, 4434-7.		6
206	In Vivo Analysis of Vectors Involved in Pupil Constriction in Chinese Subjects with Angle Closure. , 2012, 53, 6756.		23
207	Visual Impairment, Age-Related Eye Diseases, and Cognitive Function. JAMA Ophthalmology, 2012, 130, 895-900.	2.6	112
208	Pupil dynamics in Chinese subjects with angle closure. Graefe's Archive for Clinical and Experimental Ophthalmology, 2012, 250, 1353-1359.	1.0	22
209	An ensembling approach for optic cup detection based on spatial heuristic analysis in retinal fundus images. , 2012, 2012, 1426-9.		5
210	Correlation and Reproducibility of Retinal Vascular Geometric Measurements for Stereoscopic Retinal Images of the Same Eyes. Ophthalmic Epidemiology, 2012, 19, 322-327.	0.8	11
211	Early Retinal Arteriolar Changes and Peripheral Neuropathy in Diabetes. Diabetes Care, 2012, 35, 1098-1104.	4.3	43
212	Retinal pathology as biomarker for cognitive impairment and Alzheimer's disease. Journal of Neurology, Neurosurgery and Psychiatry, 2012, 83, 917-922.	0.9	100
213	Retinal Vascular Fractal Dimension and Its Relationship With Cardiovascular and Ocular Risk Factors. American Journal of Ophthalmology, 2012, 154, 663-674.e1.	1.7	98
214	Superpixel classification for initialization in model based optic disc segmentation. , 2012, 2012, 1450-3.		7
215	Automated segmentation of optic disc and optic cup in fundus images for glaucoma diagnosis. , 2012, , .		64
216	Does Retinal Vascular Geometry Vary with Cardiac Cycle?. , 2012, 53, 5799.		45

#	Article	IF	Citations
217	Prevalence and Risk Factors of Epiretinal Membrane in Asian Indians. , 2012, 53, 1018.		55
218	Neurolymphomatosis: role of positron emission tomography in diagnosis. Annals of Hematology, 2012, 91, 1313-1314.	0.8	15
219	Retinal vascular calibre as a predictor of incidence and progression of diabetic retinopathy. Australasian journal of optometry, The, 2012, 95, 290-296.	0.6	29
220	Efficient Optic Cup Detection from Intra-image Learning with Retinal Structure Priors. Lecture Notes in Computer Science, 2012, 15, 58-65.	1.0	29
221	Elevated Blood Pressure is Associated with Rarefaction of the Retinal Vasculature in Children. , 2012, 53, 470.		26
222	MRMR optimized classification for automatic glaucoma diagnosis. , 2011, 2011, 6228-31.		7
223	Model-based optic nerve head segmentation on retinal fundus images. , 2011, 2011, 2626-9.		25
224	Automatic optic disc segmentation with peripapillary atrophy elimination. , 2011, 2011, 6224-7.		31
225	Sliding Window and Regression Based Cup Detection in Digital Fundus Images for Glaucoma Diagnosis. Lecture Notes in Computer Science, 2011, 14, 1-8.	1.0	41
226	Determinants of Image Quality of Heidelberg Retina Tomography II and its Association With Optic Disc Parameters in a Population-Based Setting. American Journal of Ophthalmology, 2011, 151, 663-670.	1.7	4
227	Differential association of retinal arteriolar and venular caliber with diabetes and retinopathy. Diabetes Research and Clinical Practice, 2011, 94, 291-298.	1.1	51
228	Comparison of Standard Automated Perimetry, Frequency-Doubling Technology Perimetry, and Short-Wavelength Automated Perimetry for Detection of Glaucoma. , 2011, 52, 7325.		53
229	Racial Differences in the Prevalence of Diabetes but Not Diabetic Retinopathy in a Multi-ethnic Asian Population. , 2011, 52, 7586.		47
230	Fluvastatin Downregulates VEGF-A Expression in TNF-Î±â€“Induced Retinal Vessel Tortuosity. , 2011, 52, 7423.		19
231	Determinants of Quantitative Optic Nerve Measurements Using Spectral Domain Optical Coherence Tomography in a Population-Based Sample of Non-glaucomatous Subjects. , 2011, 52, 9629.		107
232	Quantitative and qualitative retinal microvascular characteristics and blood pressure. Journal of Hypertension, 2011, 29, 1380-1391.	0.3	196
233	Novel anterior-chamber angle measurements by high-definition optical coherence tomography using the Schwalbe line as the landmark. British Journal of Ophthalmology, 2011, 95, 955-959.	2.1	62
234	Focal edge association to glaucoma diagnosis. , 2011, 2011, 4481-4.		4

#	Article	IF	Citations
235	Influence of Height, Weight, and Body Mass Index on Optic Disc Parameters. , 2010, 51, 2998.		48
236	Integrated long-range UAV/UGV collaborative target tracking. Proceedings of SPIE, 2009, , .	0.8	7
237	Descemet Stripping Endothelial Keratoplasty: Effect of the Surgical Procedure on Corneal Optics. American Journal of Ophthalmology, 2008, 145, 991-996.	1.7	73
238	Relationship between Retinal Nerve Fiber Layer Measurement and Signal Strength in Optical Coherence Tomography. Ophthalmology, 2008, 115, 1347-1351.e2.	2.5	188
239	Agreement among 3 Methods to Measure Corneal Thickness: Ultrasound Pachymetry, Orbscan II, and Visante Anterior Segment Optical Coherence Tomography. Ophthalmology, 2007, 114, 1842-1847.e2.	2.5	123
240	A Multi-Task Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multi-Centre Analysis. SSRN Electronic Journal, 0, , .	0.4	1
241	Three-Dimensional Multi-Task Deep Learning Model to Detect Glaucomatous Optic Neuropathy and Myopic Features From Optical Coherence Tomography Scans: A Retrospective Multi-Centre Study. Frontiers in Medicine, 0, 9, .	1.2	8
242	Age-Related Eye Diseases in Individuals With Mild Cognitive Impairment and Alzheimer's Disease. Frontiers in Aging Neuroscience, 0, 14, .	1.7	2