

Ching-Yu Cheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

520
papers

30,120
citations

72
h-index

163
g-index

567
ext. papers

40,371
ext. citations

8
avg, IF

6.73
L-index

#	Paper	IF	Citations
520	Deep Learning Automated Diagnosis and Quantitative Classification of Cataract Type and Severity.. <i>Ophthalmology</i> , 2022 ,	7.3	1
519	Detecting visually significant cataract using retinal photograph-based deep learning. <i>Nature Aging</i> , 2022 , 2, 264-271		1
518	Three-dimensional modelling of the choroidal angioarchitecture in a multi-ethnic Asian population.. <i>Scientific Reports</i> , 2022 , 12, 3831	4.9	0
517	Serum Cholesterol Efflux Capacity in Age-related Macular Degeneration and Polypoidal Choroidal Vasculopathy. <i>Ophthalmology Science</i> , 2022 , 100142		
516	Identification of genetic effects underlying type 2 diabetes in South Asian and European populations.. <i>Communications Biology</i> , 2022 , 5, 329	6.7	2
515	Detection of Systemic Diseases From Ocular Images Using Artificial Intelligence: A Systematic Review.. <i>Asia-Pacific Journal of Ophthalmology</i> , 2022 , 11, 126-139	3.5	1
514	Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation.. <i>Nature Genetics</i> , 2022 ,	36.3	7
513	Different impact of early and late stages irreversible eye diseases on vision-specific quality of life domains.. <i>Scientific Reports</i> , 2022 , 12, 8465	4.9	
512	Differential and shared genetic effects on kidney function between diabetic and non-diabetic individuals. <i>Communications Biology</i> , 2022 , 5,	6.7	1
511	The Bidirectional Relationship between Vision and Cognition: A Systematic Review and Meta-analysis. <i>Ophthalmology</i> , 2021 , 128, 981-992	7.3	15
510	Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. <i>Molecular Psychiatry</i> , 2021 , 26, 2111-2125	15.1	3
509	The power of genetic diversity in genome-wide association studies of lipids. <i>Nature</i> , 2021 ,	50.4	24
508	Determinants of lamina cribrosa depth in healthy Asian eyes: the Singapore Epidemiology Eye Study. <i>British Journal of Ophthalmology</i> , 2021 , 105, 367-373	5.5	1
507	Characteristics of myopic traction maculopathy in myopic Singaporean adults. <i>British Journal of Ophthalmology</i> , 2021 , 105, 531-537	5.5	7
506	Six-year incidence of age-related macular degeneration and correlation to OCT-derived drusen volume measurements in a Chinese population. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	2
505	Association of alcohol intake with incidence and progression of diabetic retinopathy. <i>British Journal of Ophthalmology</i> , 2021 , 105, 538-542	5.5	2
504	Multivariate Normative Comparison, a Novel Method for Improved Use of Retinal Nerve Fiber Layer Thickness to Detect Early Glaucoma. <i>Ophthalmology Glaucoma</i> , 2021 ,	2.2	1

503	Deep learning algorithms to isolate and quantify the structures of the anterior segment in optical coherence tomography images. <i>British Journal of Ophthalmology</i> , 2021 , 105, 1231-1237	5.5	9
502	A deep-learning system for the assessment of cardiovascular disease risk via the measurement of retinal-vessel calibre. <i>Nature Biomedical Engineering</i> , 2021 , 5, 498-508	19	32
501	Prevalence and predictors of myopic macular degeneration among Asian adults: pooled analysis from the Asian Eye Epidemiology Consortium. <i>British Journal of Ophthalmology</i> , 2021 , 105, 1140-1148	5.5	6
500	Detection of features associated with neovascular age-related macular degeneration in ethnically distinct data sets by an optical coherence tomography: trained deep learning algorithm. <i>British Journal of Ophthalmology</i> , 2021 , 105, 1133-1139	5.5	13
499	Highlights from the 2019 International Myopia Summit on 'controversies in myopia'. <i>British Journal of Ophthalmology</i> , 2021 , 105, 1196-1202	5.5	6
498	New digital models of care in ophthalmology, during and beyond the COVID-19 pandemic. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	8
497	Genome-wide association study in almost 195,000 individuals identifies 50 previously unidentified genetic loci for eye color. <i>Science Advances</i> , 2021 , 7,	14.3	11
496	Six-Year Incidence and Risk Factors of Primary Glaucoma in the Singapore Indian Eye Study. <i>Ophthalmology Glaucoma</i> , 2021 , 4, 201-208	2.2	0
495	Heterogeneous contributions of change in population distribution of body mass index to change in obesity and underweight. <i>ELife</i> , 2021 , 10,	8.9	10
494	Computer-aided detection and abnormality score for the outer retinal layer in optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	2
493	COVID-19 awareness, knowledge and perception towards digital health in an urban multi-ethnic Asian population. <i>Scientific Reports</i> , 2021 , 11, 10795	4.9	8
492	Response to: Revisiting the Problem of Optic Nerve Detection in a Retinal Image Using Automated Machine Learning. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021 , 10, 337	3.5	
491	Global Prevalence of Diabetic Retinopathy and Projection of Burden through 2045: Systematic Review and Meta-analysis. <i>Ophthalmology</i> , 2021 , 128, 1580-1591	7.3	78
490	Retinal photograph-based deep learning algorithms for myopia and a blockchain platform to facilitate artificial intelligence medical research: a retrospective multicohort study. <i>The Lancet Digital Health</i> , 2021 , 3, e317-e329	14.4	21
489	Deep-learning-based cardiovascular risk stratification using coronary artery calcium scores predicted from retinal photographs. <i>The Lancet Digital Health</i> , 2021 , 3, e306-e316	14.4	20
488	The trans-ancestral genomic architecture of glycemic traits. <i>Nature Genetics</i> , 2021 , 53, 840-860	36.3	44
487	Near work, screen time, outdoor time and myopia in schoolchildren in the Sunflower Myopia AEEC Consortium. <i>Acta Ophthalmologica</i> , 2021 ,	3.7	4
486	Describing the Structural Phenotype of the Glaucomatous Optic Nerve Head Using Artificial Intelligence. <i>American Journal of Ophthalmology</i> , 2021 ,	4.9	6

485	Determinants of penetrance and variable expressivity in monogenic metabolic conditions across 77,184 exomes. <i>Nature Communications</i> , 2021 , 12, 3505	17.4	5
484	Evaluation of Shared Genetic Susceptibility to High and Low Myopia and Hyperopia. <i>JAMA Ophthalmology</i> , 2021 , 139, 601-609	3.9	4
483	Emergence of non-artificial intelligence digital health innovations in ophthalmology: A systematic review. <i>Clinical and Experimental Ophthalmology</i> , 2021 , 49, 741-756	2.4	
482	Evaluation of meridional scans for angle closure assessment with anterior segment swept-source optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2021 , 105, 131-134	5.5	2
481	Iris and its relevance to angle closure disease: a review. <i>British Journal of Ophthalmology</i> , 2021 , 105, 3-8	5.5	7
480	Response to: Comment on: "Do we have enough ophthalmologists to manage vision-threatening diabetic retinopathy? A global perspective". <i>Eye</i> , 2021 , 35, 692-693	4.4	
479	Role of socio-economic factors in visual impairment and progression of diabetic retinopathy. <i>British Journal of Ophthalmology</i> , 2021 , 105, 420-425	5.5	4
478	Factors affecting the diagnostic performance of circumpapillary retinal nerve fibre layer measurement in glaucoma. <i>British Journal of Ophthalmology</i> , 2021 , 105, 397-402	5.5	6
477	Prevalence of retinitis pigmentosa in Singapore: the Singapore Epidemiology of Eye Diseases Study. <i>Acta Ophthalmologica</i> , 2021 , 99, e134-e135	3.7	0
476	The Impact of Strategic White Matter Hyperintensity Lesion Location on Language. <i>American Journal of Geriatric Psychiatry</i> , 2021 , 29, 156-165	6.5	2
475	Association of Antihypertensive Medication with Retinal Nerve Fiber Layer and Ganglion Cell-Inner Plexiform Layer Thickness. <i>Ophthalmology</i> , 2021 , 128, 393-400	7.3	5
474	The Differential Impact of Age on Vision-Related Quality of Life across the Visual Impairment Spectrum. <i>Ophthalmology</i> , 2021 , 128, 354-363	7.3	5
473	Albuminuria and Primary Open-Angle Glaucoma: the Singapore Chinese Eye Study (SCES). <i>British Journal of Ophthalmology</i> , 2021 , 105, 669-673	5.5	3
472	Evaluation of Primary Angle-Closure Glaucoma Susceptibility Loci for Estimating Angle Closure Disease Severity. <i>Ophthalmology</i> , 2021 , 128, 403-409	7.3	7
471	Deep learning in glaucoma with optical coherence tomography: a review. <i>Eye</i> , 2021 , 35, 188-201	4.4	21
470	Patterns and Determinants of Choroidal Thickness in a Multiethnic Asian Population: The Singapore Epidemiology of Eye Diseases Study. <i>Ophthalmology Retina</i> , 2021 , 5, 458-467	3.8	10
469	Trends in prevalence of blindness and distance and near vision impairment over 30 years: an analysis for the Global Burden of Disease Study. <i>The Lancet Global Health</i> , 2021 , 9, e130-e143	13.6	122
468	Meta-analysis uncovers genome-wide significant variants for rapid kidney function decline. <i>Kidney International</i> , 2021 , 99, 926-939	9.9	6

467	A systematic review and participant-level meta-analysis found little association of retinal microvascular caliber with reduced kidney function. <i>Kidney International</i> , 2021 , 99, 696-706	9.9	2
466	Referral for disease-related visual impairment using retinal photograph-based deep learning: a proof-of-concept, model development study. <i>The Lancet Digital Health</i> , 2021 , 3, e29-e40	14.4	8
465	Vision, vision-specific functioning and mobility, and their relationship with clinically assessed cognitive impairment. <i>Age and Ageing</i> , 2021 , 50, 1236-1242	3	1
464	Genetic Epidemiology of Quantitative Traits of Primary Open Angle Glaucoma. <i>Essentials in Ophthalmology</i> , 2021 , 121-132	0.2	
463	Cohort Profile: The Singapore Epidemiology of Eye Diseases study (SEED). <i>International Journal of Epidemiology</i> , 2021 , 50, 41-52	7.8	13
462	A Clinician's Introduction to Artificial Intelligence. <i>Current Practices in Ophthalmology</i> , 2021 , 1-11	0	
461	Ethnic differences in the incidence of pterygium in a multi-ethnic Asian population: the Singapore Epidemiology of Eye Diseases Study. <i>Scientific Reports</i> , 2021 , 11, 501	4.9	0
460	Genome-wide meta-analysis identifies 127 open-angle glaucoma loci with consistent effect across ancestries. <i>Nature Communications</i> , 2021 , 12, 1258	17.4	47
459	Telehealth Demand Trends During the COVID-19 Pandemic in the Top 50 Most Affected Countries: Infodemiological Evaluation. <i>JMIR Public Health and Surveillance</i> , 2021 , 7, e24445	11.4	27
458	White matter network damage mediates association between cerebrovascular disease and cognition. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 1858-1872	7.3	1
457	Deep Learning Approach for Automated Detection of Myopic Maculopathy and Pathologic Myopia in Fundus Images. <i>Ophthalmology Retina</i> , 2021 , 5, 1235-1244	3.8	6
456	Association between body mass index and diabetic retinopathy in Asians: the Asian Eye Epidemiology Consortium (AEEC) study. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	2
455	Retinal microvascular signs and risk of diabetic kidney disease in asian and white populations. <i>Scientific Reports</i> , 2021 , 11, 4898	4.9	0
454	Impact of type 2 diabetes and microvascular complications on mortality and cardiovascular outcomes in a multiethnic Asian population. <i>BMJ Open Diabetes Research and Care</i> , 2021 , 9,	4.5	2
453	Myopia incidence and lifestyle changes among school children during the COVID-19 pandemic: a population-based prospective study. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	18
452	Analyses of biomarker traits in diverse UK biobank participants identify associations missed by European-centric analysis strategies. <i>Journal of Human Genetics</i> , 2021 ,	4.3	6
451	Gender Prediction for a Multiethnic Population via Deep Learning Across Different Retinal Fundus Photograph Fields: Retrospective Cross-sectional Study. <i>JMIR Medical Informatics</i> , 2021 , 9, e25165	3.6	3
450	APOC3 genetic variation, serum triglycerides, and risk of coronary artery disease in Asian Indians, Europeans, and other ethnic groups. <i>Lipids in Health and Disease</i> , 2021 , 20, 113	4.4	2

449	Characteristics of p.Gln368Ter Myocilin Variant and Influence of Polygenic Risk on Glaucoma Penetrance in the UK Biobank. <i>Ophthalmology</i> , 2021 , 128, 1300-1311	7.3	5
448	Identification of novel loci influencing refractive error in East Asian populations using an extreme phenotype design. <i>Journal of Genetics and Genomics</i> , 2021 , 49, 54-54	4	
447	Deep-Learning-Based Pre-Diagnosis Assessment Module for Retinal Photographs: A Multicenter Study. <i>Translational Vision Science and Technology</i> , 2021 , 10, 16	3.3	1
446	Worldwide trends in hypertension prevalence and progress in treatment and control from 1990 to 2019: a pooled analysis of 1201 population-representative studies with 104 million participants. <i>Lancet, The</i> , 2021 , 398, 957-980	40	154
445	Association between Body Mass Index and Chronic Kidney Disease in Asian Populations: A Participant-level Meta-Analysis. <i>Maturitas</i> , 2021 , 154, 46-54	5	2
444	The Global Extent of Undetected Glaucoma in Adults: A Systematic Review and Meta-analysis. <i>Ophthalmology</i> , 2021 , 128, 1393-1404	7.3	5
443	Visual Impairment, Major Eye Diseases, and Mortality in a Multi-Ethnic Asian Population and a Meta-analysis of Prospective Studies. <i>American Journal of Ophthalmology</i> , 2021 , 231, 88-100	4.9	0
442	Six-year incidence and systemic associations of retinopathy in a multi-ethnic Asian population without diabetes. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	1
441	Peripapillary sclera exhibits a v-shaped configuration that is more pronounced in glaucoma eyes. <i>British Journal of Ophthalmology</i> , 2020 ,	5.5	3
440	Global assessment of arteriolar, venular and capillary changes in normal tension glaucoma. <i>Scientific Reports</i> , 2020 , 10, 19222	4.9	3
439	Height and body-mass index trajectories of school-aged children and adolescents from 1985 to 2019 in 200 countries and territories: a pooled analysis of 2181 population-based studies with 65 million participants. <i>Lancet, The</i> , 2020 , 396, 1511-1524	40	73
438	Association Between Visual Impairment and Decline in Cognitive Function in a Multiethnic Asian Population. <i>JAMA Network Open</i> , 2020 , 3, e203560	10.4	20
437	Identification of type 2 diabetes loci in 433,540 East Asian individuals. <i>Nature</i> , 2020 , 582, 240-245	50.4	89
436	Artificial Intelligence for Cataract Detection and Management. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020 , 9, 88-95	3.5	17
435	A deep learning algorithm to detect chronic kidney disease from retinal photographs in community-based populations. <i>The Lancet Digital Health</i> , 2020 , 2, e295-e302	14.4	41
434	Diagnostic Ability of Individual Macular Layers by Spectral-Domain OCT in Different Stages of Glaucoma. <i>Ophthalmology Glaucoma</i> , 2020 , 3, 314-326	2.2	7
433	Agreement in Measures of Macular Perfusion between Optical Coherence Tomography Angiography Machines. <i>Scientific Reports</i> , 2020 , 10, 8345	4.9	1
432	Prevalence and Pattern of Geographic Atrophy in Asia: The Asian Eye Epidemiology Consortium. <i>Ophthalmology</i> , 2020 , 127, 1371-1381	7.3	13

431	Logistic regression was as good as machine learning for predicting major chronic diseases. <i>Journal of Clinical Epidemiology</i> , 2020 , 122, 56-69	5.7	66
430	Hypertension, blood pressure control and diabetic retinopathy in a large population-based study. <i>PLoS ONE</i> , 2020 , 15, e0229665	3.7	21
429	Using Unocular Visual Acuity Substantially Underestimates the Impact of Visual Impairment on Quality of Life Compared with Binocular Visual Acuity. <i>Ophthalmology</i> , 2020 , 127, 1145-1151	7.3	10
428	Genome-wide association meta-analysis of corneal curvature identifies novel loci and shared genetic influences across axial length and refractive error. <i>Communications Biology</i> , 2020 , 3, 133	6.7	9
427	Normative patterns and factors associated with presbyopia progression in a multiethnic Asian population: the Singapore Epidemiology of Eye Diseases Study. <i>British Journal of Ophthalmology</i> , 2020 , 104, 1591-1595	5.5	0
426	Systemic hypertension associated retinal microvascular changes can be detected with optical coherence tomography angiography. <i>Scientific Reports</i> , 2020 , 10, 9580	4.9	12
425	Association of Cataract Surgery With Risk of Diabetic Retinopathy Among Asian Participants in the Singapore Epidemiology of Eye Diseases Study. <i>JAMA Network Open</i> , 2020 , 3, e208035	10.4	4
424	Profile of retinal nerve fibre layer symmetry in a multiethnic Asian population: the Singapore Epidemiology of Eye Diseases study. <i>British Journal of Ophthalmology</i> , 2020 , 104, 836-841	5.5	5
423	Profiles of Ganglion Cell-Inner Plexiform Layer Thickness in a Multi-Ethnic Asian Population: The Singapore Epidemiology of Eye Diseases Study. <i>Ophthalmology</i> , 2020 , 127, 1064-1076	7.3	12
422	Interethnic differences in neuroimaging markers and cognition in Asians, a population-based study. <i>Scientific Reports</i> , 2020 , 10, 2655	4.9	4
421	MRI Markers of Mixed Pathology and Cognitive Impairment in Multiethnic Asians. <i>Journal of Alzheimer's Disease</i> , 2020 , 73, 1501-1509	4.3	1
420	Is kidney function associated with primary open-angle glaucoma? Findings from the Asian Eye Epidemiology Consortium. <i>British Journal of Ophthalmology</i> , 2020 , 104, 1298-1303	5.5	6
419	Do we have enough ophthalmologists to manage vision-threatening diabetic retinopathy? A global perspective. <i>Eye</i> , 2020 , 34, 1255-1261	4.4	13
418	Association between Macular Thickness Profiles and Visual Function in Healthy Eyes: The Singapore Epidemiology of Eye Diseases (SEED) Study. <i>Scientific Reports</i> , 2020 , 10, 6142	4.9	5
417	Incidence, progression and risk factors of age-related cataract in Malays: The Singapore Malay Eye Study. <i>Clinical and Experimental Ophthalmology</i> , 2020 , 48, 580-592	2.4	4
416	Performance competence of pregraduate nursing students and hospital nurses: A comparison study. <i>Journal of Clinical Nursing</i> , 2020 , 29, 2652-2662	3.2	2
415	Association of variants with hemoglobin A1c and impact on diabetes diagnosis in East Asian individuals. <i>BMJ Open Diabetes Research and Care</i> , 2020 , 8,	4.5	7
414	High-Density Lipoprotein Cholesterol in Age-Related Ocular Diseases. <i>Biomolecules</i> , 2020 , 10,	5.9	5

413	Towards label-free 3D segmentation of optical coherence tomography images of the optic nerve head using deep learning. <i>Biomedical Optics Express</i> , 2020 , 11, 6356-6378	3.5	6
412	Rationale and Methodology of The PopulatIOn Health and Eye Disease PRofile in Elderly Singaporeans Study [PIONEER] 2020 , 11, 1444-1458		3
411	Genome-Wide Association Study in Asians Identifies Novel Loci for High Myopia and Highlights a Nervous System Role in Its Pathogenesis. <i>Ophthalmology</i> , 2020 , 127, 1612-1624	7.3	11
410	Deep Learning for Automated Sorting of Retinal Photographs. <i>Ophthalmology Retina</i> , 2020 , 4, 793-800	3.8	7
409	Detection of anaemia from retinal images. <i>Nature Biomedical Engineering</i> , 2020 , 4, 2-3	19	2
408	The associations of objectively measured sleep duration and sleep disturbances with diabetic retinopathy. <i>Diabetes Research and Clinical Practice</i> , 2020 , 159, 107967	7.4	18
407	The prevalence and clinical associations of disproportionately enlarged subarachnoid space hydrocephalus (DESH), an imaging feature of idiopathic normal pressure hydrocephalus in community and memory clinic based Singaporean cohorts. <i>Journal of the Neurological Sciences</i> , 2020 , 408, 116510	3.2	5
406	Development and clinical deployment of a smartphone-based visual field deep learning system for glaucoma detection. <i>Npj Digital Medicine</i> , 2020 , 3, 123	15.7	5
405	Prediction of systemic biomarkers from retinal photographs: development and validation of deep-learning algorithms. <i>The Lancet Digital Health</i> , 2020 , 2, e526-e536	14.4	24
404	Statistical inference for decision curve analysis, with applications to cataract diagnosis. <i>Statistics in Medicine</i> , 2020 , 39, 2980-3002	2.3	5
403	Machine learning to determine relative contribution of modifiable and non-modifiable risk factors of major eye diseases. <i>British Journal of Ophthalmology</i> , 2020 ,	5.5	1
402	Keratoconus-susceptibility gene identification by corneal thickness genome-wide association study and artificial intelligence IBM Watson. <i>Communications Biology</i> , 2020 , 3, 410	6.7	15
401	Big Data in Ophthalmology. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020 , 9, 291-298	3.5	10
400	Asian-specific vertical cup-to-disc ratio cut-off for glaucoma screening: An evidence-based recommendation from a multi-ethnic Asian population. <i>Clinical and Experimental Ophthalmology</i> , 2020 , 48, 1210-1218	2.4	3
399	Rates and Determinants of Eyecare Utilization and Eyeglass Affordability Among Individuals With Visual Impairment in a Multi-Ethnic Population-Based Study in Singapore. <i>Translational Vision Science and Technology</i> , 2020 , 9, 11	3.3	4
398	Strengthening the integration of eye care into the health system: methodology for the development of the WHO package of eye care interventions. <i>BMJ Open Ophthalmology</i> , 2020 , 5, e000533	3.2	11
397	Genome-Wide Association for HbA1c in Malay Identified Deletion on SLC4A1 that Influences HbA1c Independent of Glycemia. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	4
396	Decrease in Choroidal Vascularity Index of Haller's layer in diabetic eyes precedes retinopathy. <i>BMJ Open Diabetes Research and Care</i> , 2020 , 8,	4.5	9

395	Association of Glaucoma Risk Genes with Retinal Nerve Fiber Layer in a Multi-ethnic Asian Population: The Singapore Epidemiology of Eye Diseases Study 2020 , 61, 37		2
394	Common variants in SOX-2 and congenital cataract genes contribute to age-related nuclear cataract. <i>Communications Biology</i> , 2020 , 3, 755	6.7	3
393	Normative profiles of neuroretinal rim area in a multiethnic Asian population: the Singapore Epidemiology of Eye Diseases study. <i>British Journal of Ophthalmology</i> , 2020 ,	5.5	1
392	MRI of posterior eye shape and its associations with myopia and ethnicity. <i>British Journal of Ophthalmology</i> , 2020 , 104, 1239-1245	5.5	8
391	Compensation of retinal nerve fibre layer thickness as assessed using optical coherence tomography based on anatomical confounders. <i>British Journal of Ophthalmology</i> , 2020 , 104, 282-290	5.5	18
390	Analysis of 47 Non-MHC Ankylosing Spondylitis Susceptibility Loci Regarding Associated Variants across Whites and Han Chinese. <i>Journal of Rheumatology</i> , 2020 , 47, 674-681	4.1	1
389	Understanding diagnostic disagreement in angle closure assessment between anterior segment optical coherence tomography and gonioscopy. <i>British Journal of Ophthalmology</i> , 2020 , 104, 795-799	5.5	16
388	Prevalence and causes of vision loss in East Asia in 2015: magnitude, temporal trends and projections. <i>British Journal of Ophthalmology</i> , 2020 , 104, 616-622	5.5	13
387	Systemic medications and cortical cataract: the Singapore Epidemiology of Eye Diseases Study. <i>British Journal of Ophthalmology</i> , 2020 , 104, 330-335	5.5	2
386	Singapore Chinese Eye Study: key findings from baseline examination and the rationale, methodology of the 6-year follow-up series. <i>British Journal of Ophthalmology</i> , 2020 , 104, 610-615	5.5	13
385	Six-Year Changes in Myopic Macular Degeneration in Adults of the Singapore Epidemiology of Eye Diseases Study 2020 , 61, 14		10
384	Artificial Intelligence to Detect Papilledema from Ocular Fundus Photographs. <i>New England Journal of Medicine</i> , 2020 , 382, 1687-1695	59.2	91
383	The Informant AD8 Can Discriminate Patients with Dementia From Healthy Control Participants in an Asian Older Cohort. <i>Journal of the American Medical Directors Association</i> , 2019 , 20, 775-779	5.9	2
382	Multiancestry Genome-Wide Association Study of Lipid Levels Incorporating Gene-Alcohol Interactions. <i>American Journal of Epidemiology</i> , 2019 , 188, 1033-1054	3.8	39
381	Association between diabetic retinopathy and incident cognitive impairment. <i>British Journal of Ophthalmology</i> , 2019 , 103, 1605-1609	5.5	16
380	The Effect of Gender on Visual Field Sensitivity: The Singapore Chinese Eye Study. <i>Ophthalmic Epidemiology</i> , 2019 , 26, 183-188	1.9	
379	Six-year incidence and progression of diabetic retinopathy in Indian adults: the Singapore Indian Eye study. <i>British Journal of Ophthalmology</i> , 2019 , 103, 1732-1739	5.5	5
378	Normative pattern and determinants of outer retinal thickness in an Asian population: the Singapore Epidemiology of Eye Diseases Study. <i>British Journal of Ophthalmology</i> , 2019 , 103, 1406-1412	5.5	4

377	Artificial Intelligence Using Deep Learning in Classifying Side of the Eyes and Width of Field for Retinal Fundus Photographs. <i>Lecture Notes in Computer Science</i> , 2019 , 309-315	0.9	
376	Relationship Between Sleep and Symptoms of Tear Dysfunction in Singapore Malays and Indians 2019 , 60, 1889-1897		9
375	Cerebral Small Vessel Disease and Enlarged Perivascular Spaces-Data From Memory Clinic and Population-Based Settings. <i>Frontiers in Neurology</i> , 2019 , 10, 669	4.1	8
374	A catalog of genetic loci associated with kidney function from analyses of a million individuals. <i>Nature Genetics</i> , 2019 , 51, 957-972	36.3	217
373	Exome sequencing of 20,791 cases of type 2 diabetes and 24,440 controls. <i>Nature</i> , 2019 , 570, 71-76	50.4	129
372	Changes in the Anterior Lamina Cribrosa Morphology with Glaucoma Severity. <i>Scientific Reports</i> , 2019 , 9, 6612	4.9	10
371	Is Myopia Associated with the Incidence and Progression of Diabetic Retinopathy?. <i>American Journal of Ophthalmology</i> , 2019 , 208, 226-233	4.9	7
370	Patterns and Risk Factor Profiles of Visual Loss in a Multiethnic Asian Population: The Singapore Epidemiology of Eye Diseases Study. <i>American Journal of Ophthalmology</i> , 2019 , 206, 48-73	4.9	15
369	U-Shaped Relationship between Serum Leptin Concentration and Cognitive Performance in Older Asian Adults. <i>Nutrients</i> , 2019 , 11,	6.7	3
368	VIMCO: variational inference for multiple correlated outcomes in genome-wide association studies. <i>Bioinformatics</i> , 2019 , 35, 3693-3700	7.2	5
367	Deep learning in estimating prevalence and systemic risk factors for diabetic retinopathy: a multi-ethnic study. <i>Npj Digital Medicine</i> , 2019 , 2, 24	15.7	32
366	A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. <i>Human Molecular Genetics</i> , 2019 , 28, 2615-2633	5.6	14
365	Multi-ancestry genome-wide gene-smoking interaction study of 387,272 individuals identifies new loci associated with serum lipids. <i>Nature Genetics</i> , 2019 , 51, 636-648	36.3	59
364	Association of Diabetic Retinopathy and Diabetic Kidney Disease With All-Cause and Cardiovascular Mortality in a Multiethnic Asian Population. <i>JAMA Network Open</i> , 2019 , 2, e191540	10.4	30
363	Simplified end stage renal failure risk prediction model for the low-risk general population with chronic kidney disease. <i>PLoS ONE</i> , 2019 , 14, e0212590	3.7	4
362	Population genomics in South East Asia captures unexpectedly high carrier frequency for treatable inherited disorders. <i>Genetics in Medicine</i> , 2019 , 21, 207-212	8.1	13
361	Racial differences and determinants of macular thickness profiles in multiethnic Asian population: the Singapore Epidemiology of Eye Diseases Study. <i>British Journal of Ophthalmology</i> , 2019 , 103, 894-899	5.5	10
360	Incidence and progression of diabetic retinopathy: a systematic review. <i>Lancet Diabetes and Endocrinology</i> , 2019 , 7, 140-149	18.1	150

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358	A genome-wide association study identifies genetic loci associated with specific lobar brain volumes. <i>Communications Biology</i> , 2019 , 2, 285	6.7	14
357	Genetic variants linked to myopic macular degeneration in persons with high myopia: CREAM Consortium. <i>PLoS ONE</i> , 2019 , 14, e0220143	3.7	5
356	Integration of Genetic and Biometric Risk Factors for Detection of Primary Angle Closure Glaucoma. <i>American Journal of Ophthalmology</i> , 2019 , 208, 160-165	4.9	7
355	Prevalence and Risk Factors for Cognitive Impairment and Dementia in Indians: A Multiethnic Perspective from a Singaporean Study. <i>Journal of Alzheimer's Disease</i> , 2019 , 71, 341-351	4.3	8
354	Large-Scale Whole-Genome Sequencing of Three Diverse Asian Populations in Singapore. <i>Cell</i> , 2019 , 179, 736-749.e15	56.2	51
353	Reporting on deep learning algorithms in health care. <i>The Lancet Digital Health</i> , 2019 , 1, e328-e329	14.4	15
352	Retinal Nerve Fiber Layer Thickness in a Multiethnic Normal Asian Population: The Singapore Epidemiology of Eye Diseases Study. <i>Ophthalmology</i> , 2019 , 126, 702-711	7.3	29
351	Additive effect of cerebral atrophy on cognition in dementia-free elderly with cerebrovascular disease. <i>Stroke and Vascular Neurology</i> , 2019 , 4, 135-140	9.1	4
350	Multi-trait genome-wide association study identifies new loci associated with optic disc parameters. <i>Communications Biology</i> , 2019 , 2, 435	6.7	10
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346	Genetic and lifestyle risk factors for MRI-defined brain infarcts in a population-based setting. <i>Neurology</i> , 2019 ,	6.5	17
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341	Assessment of Circumferential Angle Closure with Swept-Source Optical Coherence Tomography: a Community Based Study. <i>American Journal of Ophthalmology</i> , 2019 , 199, 133-139	4.9	14
340	Inter-relationship between ageing, body mass index, diabetes, systemic blood pressure and intraocular pressure in Asians: 6-year longitudinal study. <i>British Journal of Ophthalmology</i> , 2019 , 103, 196-202	5.5	16
339	Racial/Ethnic Differences in Cognitive Symptoms During the Menopausal Transition. <i>Western Journal of Nursing Research</i> , 2019 , 41, 217-237	2	6
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200	Factors influencing the pupillary light reflex in healthy individuals. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2016 , 254, 1353-9	3.8	17
199	Myopic Maculopathy and Optic Disc Changes in Highly Myopic Young Asian Eyes and Impact on Visual Acuity. <i>American Journal of Ophthalmology</i> , 2016 , 164, 69-79	4.9	47
198	State of science: Choroidal thickness and systemic health. <i>Survey of Ophthalmology</i> , 2016 , 61, 566-81	6.1	138

197	Novel Genetic Loci Associated With Retinal Microvascular Diameter. <i>Circulation: Cardiovascular Genetics</i> , 2016 , 9, 45-54		18
196	Genome-wide association analysis identifies TXNRD2, ATXN2 and FOXC1 as susceptibility loci for primary open-angle glaucoma. <i>Nature Genetics</i> , 2016 , 48, 189-94	36.3	159
195	Relationship Between Peripapillary Choroid and Retinal Nerve Fiber Layer Thickness in a Population-Based Sample of Nonglaucomatous Eyes. <i>American Journal of Ophthalmology</i> , 2016 , 161, 4-11.e1-2	4.9	18
194	Inter-Relationships Between Retinal Vascular Caliber, Retinal Nerve Fiber Layer Thickness, and Glaucoma: A Mediation Analysis Approach 2016 , 57, 3803-9		9
193	Shape Changes of the Anterior Lamina Cribrosa in Normal, Ocular Hypertensive, and Glaucomatous Eyes Following Acute Intraocular Pressure Elevation 2016 , 57, 4869-4877		28
192	The genetic architecture of type 2 diabetes. <i>Nature</i> , 2016 , 536, 41-47	50.4	704
191	Choroidal thickness does not predict visual acuity in young high myopes. <i>Acta Ophthalmologica</i> , 2016 , 94, e709-e715	3.7	14
190	Fine-scale mapping of 8q24 locus identifies multiple independent risk variants for breast cancer. <i>International Journal of Cancer</i> , 2016 , 139, 1303-1317	7.5	26
189	Relationship of ocular and systemic factors to the visibility of choroidal-scleral interface using spectral domain optical coherence tomography. <i>Acta Ophthalmologica</i> , 2016 , 94, e142-9	3.7	16
188	Association of iris surface features with iris parameters assessed by swept-source optical coherence tomography in Asian eyes. <i>British Journal of Ophthalmology</i> , 2016 , 100, 1682-1685	5.5	7
187	Validation of the Total Cerebrovascular Disease Burden Scale in a Community Sample. <i>Journal of Alzheimer's Disease</i> , 2016 , 52, 1021-8	4.3	7
186	Joint Effects of Intraocular Pressure and Myopia on Risk of Primary Open-Angle Glaucoma: The Singapore Epidemiology of Eye Diseases Study. <i>Scientific Reports</i> , 2016 , 6, 19320	4.9	16
185	P1-399: The Combined Utility of Brief Cognitive Tests for The Detection of Mild Cognitive Impairment: Epidemiology of Dementia in Singapore Study 2016 , 12, P586-P587		
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183	Effects of prenatal maternal mental distress on birth outcomes. <i>Women and Birth</i> , 2016 , 29, 376-80	3.3	41
182	A missense variant in FGD6 confers increased risk of polypoidal choroidal vasculopathy. <i>Nature Genetics</i> , 2016 , 48, 640-7	36.3	47
181	Cortical cerebral microinfarcts on 3T MRI: A novel marker of cerebrovascular disease. <i>Neurology</i> , 2016 , 87, 1583-1590	6.5	81
180	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016 , 19, 1569-1582	25.5	147

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178	Age of onset of myopia predicts risk of high myopia in later childhood in myopic Singapore children. <i>Ophthalmic and Physiological Optics</i> , 2016 , 36, 388-94	4.1	103
177	Retinal ganglion cell neuronal damage in diabetes and diabetic retinopathy. <i>Clinical and Experimental Ophthalmology</i> , 2016 , 44, 243-50	2.4	68
176	A common variant mapping to CACNA1A is associated with susceptibility to exfoliation syndrome. <i>Nature Genetics</i> , 2015 , 47, 387-92	36.3	70
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174	Risk factors for predicting visual field progression in Chinese patients with primary open-angle glaucoma: A retrospective study. <i>Journal of the Chinese Medical Association</i> , 2015 , 78, 418-23	2.8	5
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164	Ancestry, Socioeconomic Status, and Age-Related Cataract in Asians: The Singapore Epidemiology of Eye Diseases Study. <i>Ophthalmology</i> , 2015 , 122, 2169-78	7.3	46
163	Prevalence, Risk Factors, and Visual Features of Undiagnosed Glaucoma: The Singapore Epidemiology of Eye Diseases Study. <i>JAMA Ophthalmology</i> , 2015 , 133, 938-46	3.9	45
162	A Genetic Variant in TGFBR3-CDC7 Is Associated with Visual Field Progression in Primary Open-Angle Glaucoma Patients from Singapore. <i>Ophthalmology</i> , 2015 , 122, 2416-22	7.3	13

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156	Determinants of optical coherence tomography-derived minimum neuroretinal rim width in a normal Chinese population 2015 , 56, 3337-44		29
155	A Global Shape Index to Characterize Anterior Lamina Cribrosa Morphology and Its Determinants in Healthy Indian Eyes 2015 , 56, 3604-14		32
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147	Author reply: To PMID 24974815. <i>Ophthalmology</i> , 2015 , 122, e41-2	7.3	1
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95	Genome-wide association study identifies ZFHX1B as a susceptibility locus for severe myopia. <i>Human Molecular Genetics</i> , 2013 , 22, 5288-94	5.6	49
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81	How much eye care services do Asian populations need? Projection from the Singapore Epidemiology of Eye Disease (SEED) study 2013 , 54, 2171-7		25
80	Familial correlation of retinal vascular caliber in Singapore Chinese 2013 , 54, 5638-42		4
79	Relationship between retinal vascular geometry with retinal nerve fiber layer and ganglion cell-inner plexiform layer in nonglaucomatous eyes 2013 , 54, 7309-16		24
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50	Determinants of quantitative optic nerve measurements using spectral domain optical coherence tomography in a population-based sample of non-glaucomatous subjects 2011 , 52, 9629-35		90
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24	Body mass index and age-related cataract: the Shihpai Eye Study. <i>JAMA Ophthalmology</i> , 2005 , 123, 1109-14		45
23	Intraocular pressure measured with a noncontact tonometer in an elderly Chinese population: the Shihpai Eye Study. <i>JAMA Ophthalmology</i> , 2005 , 123, 381-6		51
22	Association between symptoms and signs of dry eye among an elderly Chinese population in Taiwan: the Shihpai Eye Study. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 1593-8		92
21	Association of ocular dominance and anisometropic myopia. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 2856-60		91
20	Retinal nerve fiber layer thickness in unilateral amblyopia. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 2224-30		114
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8	Genetic Architecture of Subcortical Brain Structures in Over 40,000 Individuals Worldwide		5
7	A large cross-ancestry meta-analysis of genome-wide association studies identifies 69 novel risk loci for primary open-angle glaucoma and includes a genetic link with Alzheimer's disease		4
6	Determinants of penetrance and variable expressivity in monogenic metabolic conditions across 77,184 exomes		1
5	Rare coding variants in 35 genes associate with circulating lipid levels in a multi-ancestry analysis of 170,000 exomes		2
4	Genetic discovery and translational decision support from exome sequencing of 20,791 type 2 diabetes cases and 24,440 controls from five ancestries		2
3	Large-scale whole-genome sequencing of three diverse Asian populations in Singapore		3
2	Identification of type 2 diabetes loci in 433,540 East Asian individuals		4
1	Tissue-Specific Alteration of Metabolic Pathways Influences Glycemic Regulation		4