

Daniel S W Ting

List of Publications by Citations

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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.

109
papers

5,241
citations

32
h-index

71
g-index

137
ext. papers

8,087
ext. citations

8.7
avg, IF

6.58
L-index

#	Paper	IF	Citations
109	Development and Validation of a Deep Learning System for Diabetic Retinopathy and Related Eye Diseases Using Retinal Images From Multiethnic Populations With Diabetes. <i>JAMA - Journal of the American Medical Association</i> , 2017 , 318, 2211-2223	27.4	838
108	Digital technology and COVID-19. <i>Nature Medicine</i> , 2020 , 26, 459-461	50.5	617
107	Diabetic retinopathy: global prevalence, major risk factors, screening practices and public health challenges: a review. <i>Clinical and Experimental Ophthalmology</i> , 2016 , 44, 260-77	2.4	404
106	Artificial intelligence and deep learning in ophthalmology. <i>British Journal of Ophthalmology</i> , 2019 , 103, 167-175	5.5	365
105	Deep learning in ophthalmology: The technical and clinical considerations. <i>Progress in Retinal and Eye Research</i> , 2019 , 72, 100759	20.5	163
104	Optical Coherence Tomographic Angiography in Type 2 Diabetes and Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , 2017 , 135, 306-312	3.9	118
103	Artificial intelligence using deep learning to screen for referable and vision-threatening diabetic retinopathy in Africa: a clinical validation study. <i>The Lancet Digital Health</i> , 2019 , 1, e35-e44	14.4	99
102	Development and Validation of a Deep Learning System to Detect Glaucomatous Optic Neuropathy Using Fundus Photographs. <i>JAMA Ophthalmology</i> , 2019 , 137, 1353-1360	3.9	97
101	An Automated Grading System for Detection of Vision-Threatening Referable Diabetic Retinopathy on the Basis of Color Fundus Photographs. <i>Diabetes Care</i> , 2018 , 41, 2509-2516	14.6	96
100	Artificial Intelligence to Detect Papilledema from Ocular Fundus Photographs. <i>New England Journal of Medicine</i> , 2020 , 382, 1687-1695	59.2	91
99	AI for medical imaging goes deep. <i>Nature Medicine</i> , 2018 , 24, 539-540	50.5	88
98	Cost-effectiveness of a National Telemedicine Diabetic Retinopathy Screening Program in Singapore. <i>Ophthalmology</i> , 2016 , 123, 2571-2580	7.3	87
97	Digital Screen Time During the COVID-19 Pandemic: Risk for a Further Myopia Boom?. <i>American Journal of Ophthalmology</i> , 2021 , 223, 333-337	4.9	87
96	Developing specific reporting guidelines for diagnostic accuracy studies assessing AI interventions: The STARD-AI Steering Group. <i>Nature Medicine</i> , 2020 , 26, 807-808	50.5	84
95	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
94	CHOROIDAL VASCULARITY INDEX: A Novel Optical Coherence Tomography Based Parameter in Patients With Exudative Age-Related Macular Degeneration. <i>Retina</i> , 2017 , 37, 1120-1125	3.6	77
93	Artificial intelligence for diabetic retinopathy screening: a review. <i>Eye</i> , 2020 , 34, 451-460	4.4	67

92	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
91	Artificial intelligence for teleophthalmology-based diabetic retinopathy screening in a national programme: an economic analysis modelling study. <i>The Lancet Digital Health</i> , 2020 , 2, e240-e249	14.4	65
90	Digital technology, tele-medicine and artificial intelligence in ophthalmology: A global perspective. <i>Progress in Retinal and Eye Research</i> , 2021 , 82, 100900	20.5	63
89	Artificial Intelligence Screening for Diabetic Retinopathy: the Real-World Emerging Application. <i>Current Diabetes Reports</i> , 2019 , 19, 72	5.6	60
88	Choroidal Thickness Changes in Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy: A 12-Month Prospective Study. <i>American Journal of Ophthalmology</i> , 2016 , 164, 128-36.e1	4.9	59
87	Diagnostic accuracy of deep learning in medical imaging: a systematic review and meta-analysis. <i>Npj Digital Medicine</i> , 2021 , 4, 65	15.7	49
86	Coronavirus disease 2019 (COVID-19): an evidence map of medical literature. <i>BMC Medical Research Methodology</i> , 2020 , 20, 177	4.7	42
85	Digital health during COVID-19: lessons from operationalising new models of care in ophthalmology. <i>The Lancet Digital Health</i> , 2021 , 3, e124-e134	14.4	42
84	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
83	Artificial intelligence for anterior segment diseases: Emerging applications in ophthalmology. <i>British Journal of Ophthalmology</i> , 2021 , 105, 158-168	5.5	41
82	Comparison of swept source optical coherence tomography and spectral domain optical coherence tomography in polypoidal choroidal vasculopathy. <i>Clinical and Experimental Ophthalmology</i> , 2015 , 43, 815-9	2.4	33
81	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
80	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
79	CHOROIDAL VASCULAR HYPERPERMEABILITY AS A PREDICTOR OF TREATMENT RESPONSE FOR POLYPOIDAL CHOROIDAL VASCULOPATHY. <i>Retina</i> , 2018 , 38, 1509-1517	3.6	30
78	Methodological Challenges of Deep Learning in Optical Coherence Tomography for Retinal Diseases: A Review. <i>Translational Vision Science and Technology</i> , 2020 , 9, 11	3.3	28
77	Choroidal Remodeling in Age-related Macular Degeneration and Polypoidal Choroidal Vasculopathy: A 12-month Prospective Study. <i>Scientific Reports</i> , 2017 , 7, 7868	4.9	28
76	Artificial intelligence for diabetic retinopathy screening, prediction and management. <i>Current Opinion in Ophthalmology</i> , 2020 , 31, 357-365	5.1	28
75	Artificial intelligence, the internet of things, and virtual clinics: ophthalmology at the digital translation forefront. <i>The Lancet Digital Health</i> , 2020 , 2, e8-e9	14.4	27

74	Different fundus imaging modalities and technical factors in AI screening for diabetic retinopathy: a review. <i>Eye and Vision (London, England)</i> , 2020 , 7, 21	4.9	27
73	Artificial Intelligence to Stratify Severity of Age-Related Macular Degeneration (AMD) and Predict Risk of Progression to Late AMD. <i>Translational Vision Science and Technology</i> , 2020 , 9, 25	3.3	25
72	Clinical Applicability of Deep Learning System in Detecting Tuberculosis with Chest Radiography. <i>Radiology</i> , 2018 , 286, 729-731	20.5	25
71	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
70	Eyeing cardiovascular risk factors. <i>Nature Biomedical Engineering</i> , 2018 , 2, 140-141	19	23
69	Optic Disc Classification by Deep Learning versus Expert Neuro-Ophthalmologists. <i>Annals of Neurology</i> , 2020 , 88, 785-795	9.4	21
68	Deep learning for detecting retinal detachment and discerning macular status using ultra-widefield fundus images. <i>Communications Biology</i> , 2020 , 3, 15	6.7	21
67	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
66	Health Economic and Safety Considerations for Artificial Intelligence Applications in Diabetic Retinopathy Screening. <i>Translational Vision Science and Technology</i> , 2020 , 9, 22	3.3	21
65	Optical Coherence Tomography Angiography in Diabetes and Diabetic Retinopathy. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	20
64	Artificial Intelligence and Radiology: Collaboration Is Key. <i>Journal of the American College of Radiology</i> , 2018 , 15, 781-783	3.5	20
63	Light and portable novel device for diabetic retinopathy screening. <i>Clinical and Experimental Ophthalmology</i> , 2012 , 40, e40-6	2.4	20
62	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
61	Deep learning for retinopathy of prematurity screening. <i>British Journal of Ophthalmology</i> , 2018 ,	5.5	17
60	Deep Learning and Transfer Learning for Optic Disc Laterality Detection: Implications for Machine Learning in Neuro-Ophthalmology. <i>Journal of Neuro-Ophthalmology</i> , 2020 , 40, 178-184	2.6	16
59	COVID-19: Ocular Manifestations and the APAO Prevention Guidelines for Ophthalmic Practices. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020 , 9, 281-284	3.5	16
58	Ophthalmology simulation for undergraduate and postgraduate clinical education. <i>International Journal of Ophthalmology</i> , 2016 , 9, 920-4	1.4	16
57	Technical and imaging factors influencing performance of deep learning systems for diabetic retinopathy. <i>Npj Digital Medicine</i> , 2020 , 3, 40	15.7	15

56	Reporting on deep learning algorithms in health care. <i>The Lancet Digital Health</i> , 2019 , 1, e328-e329	14.4	15
55	Diabetic retinopathy--screening and management by Australian GPs. <i>Australian Family Physician</i> , 2011 , 40, 233-8		14
54	Blockchain applications in health care for COVID-19 and beyond: a systematic review. <i>The Lancet Digital Health</i> , 2021 , 3, e819-e829	14.4	13
53	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
52	Global Assessment of Retinal Arteriolar, Venular and Capillary Microcirculations Using Fundus Photographs and Optical Coherence Tomography Angiography in Diabetic Retinopathy. <i>Scientific Reports</i> , 2019 , 9, 11751	4.9	12
51	Retinal video recording a new way to image and diagnose diabetic retinopathy. <i>Ophthalmology</i> , 2011 , 118, 1588-93	7.3	12
50	Real-World Treatment Outcomes of Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy in Asians. <i>Ophthalmology Retina</i> , 2020 , 4, 403-414	3.8	12
49	Effectiveness of an Ophthalmic Hospital-Based Virtual Service during the COVID-19 Pandemic. <i>Ophthalmology</i> , 2021 , 128, 942-945	7.3	12
48	Proliferative diabetic retinopathy: laser or eye injection?. <i>Lancet, The</i> , 2017 , 389, 2165-2166	4.0	11
47	Evolving Practice Patterns in Singapore's Public Sector Ophthalmology Centers During the COVID-19 Pandemic. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020 , 9, 285-290	3.5	11
46	Retinal microvascular signs in COVID-19. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	11
45	The promise of artificial intelligence: a review of the opportunities and challenges of artificial intelligence in healthcare. <i>British Medical Bulletin</i> , 2021 , 139, 4-15	5.4	11
44	Accuracy of a Deep Learning System for Classification of Papilledema Severity on Ocular Fundus Photographs. <i>Neurology</i> , 2021 , 97, e369-e377	6.5	10
43	Telemedicine for Diabetic Retinopathy Screening. <i>JAMA Ophthalmology</i> , 2017 , 135, 722-723	3.9	9
42	Artificial Intelligence in Ophthalmology: Evolutions in Asia. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020 , 9, 78-84	3.5	9
41	Application of Comprehensive Artificial intelligence Retinal Expert (CARE) system: a national real-world evidence study. <i>The Lancet Digital Health</i> , 2021 , 3, e486-e495	14.4	9
40	The era of artificial intelligence and virtual reality: transforming surgical education in ophthalmology. <i>British Journal of Ophthalmology</i> , 2021 , 105, 1325-1328	5.5	8
39	New digital models of care in ophthalmology, during and beyond the COVID-19 pandemic. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	8

38	Automated and Computer-Assisted Detection, Classification, and Diagnosis of Diabetic Retinopathy. <i>Telemedicine Journal and E-Health</i> , 2020 , 26, 544-550	5.9	7
37	Deep Learning for Automated Sorting of Retinal Photographs. <i>Ophthalmology Retina</i> , 2020 , 4, 793-800	3.8	7
36	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
35	Observations and Lessons Learned From the Artificial Intelligence Studies for Diabetic Retinopathy Screening. <i>JAMA Ophthalmology</i> , 2019 , 137, 994-995	3.9	5
34	A quality assessment tool for artificial intelligence-centered diagnostic test accuracy studies: QUADAS-AI. <i>Nature Medicine</i> , 2021 , 27, 1663-1665	50.5	5
33	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
32	Artificial Intelligence in Cornea, Refractive Surgery, and Cataract: Basic Principles, Clinical Applications, and Future Directions. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021 , 10, 268-281	3.5	5
31	Artificial Intelligence and Deep Learning in Ophthalmology 2021 , 1-34		5
30	25-years Trends and Risk factors related to Surgical Outcomes of Giant Retinal Tear-Rhegmatogenous Retinal Detachments. <i>Scientific Reports</i> , 2020 , 10, 5474	4.9	4
29	Multimodal Machine Learning Using Visual Fields and Peripapillary Circular OCT Scans in Detection of Glaucomatous Optic Neuropathy. <i>Ophthalmology</i> , 2021 ,	7.3	4
28	Blockchain Technology for Ophthalmology: Coming of Age?. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021 , 10, 343-347	3.5	4
27	Application of 5G Technology to Conduct Real-Time Teleretinal Laser Photocoagulation for the Treatment of Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , 2021 , 139, 975-982	3.9	4
26	Shapley variable importance cloud for interpretable machine learning.. <i>Patterns</i> , 2022 , 3, 100452	5.1	4
25	Generative Adversarial Networks (GANs) for Retinal Fundus Image Synthesis. <i>Lecture Notes in Computer Science</i> , 2019 , 289-302	0.9	3
24	The potential application of artificial intelligence for diagnosis and management of glaucoma in adults. <i>British Medical Bulletin</i> , 2020 , 134, 21-33	5.4	3
23	Updates in deep learning research in ophthalmology. <i>Clinical Science</i> , 2021 , 135, 2357-2376	6.5	3
22	Anterior segment optical coherence tomography angiography for iris vasculature in pigmented eyes. <i>British Journal of Ophthalmology</i> , 2021 , 105, 929-934	5.5	3
21	Generative adversarial networks in ophthalmology: what are these and how can they be used?. <i>Current Opinion in Ophthalmology</i> , 2021 , 32, 459-467	5.1	3

20	Technical and clinical challenges of A.I. in retinal image analysis 2019 , 445-466		3
19	Comparison of macular structural and vascular changes in neuromyelitis optica spectrum disorder and primary open angle glaucoma: a cross-sectional study. <i>British Journal of Ophthalmology</i> , 2021 , 105, 354-360	5.5	3
18	Application of artificial intelligence in cataract management: current and future directions.. <i>Eye and Vision (London, England)</i> , 2022 , 9, 3	4.9	2
17	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
16	Impact of Artificial Intelligence on Medical Education in Ophthalmology. <i>Translational Vision Science and Technology</i> , 2021 , 10, 14	3.3	2
15	Artificial intelligence in myopia: current and future trends. <i>Current Opinion in Ophthalmology</i> , 2021 , 32, 413-424	5.1	2
14	Using artificial intelligence for diabetic retinopathy screening: Policy implications. <i>Indian Journal of Ophthalmology</i> , 2021 , 69, 2993-2998	1.6	1
13	SARS-CoV-2 and the Eye: Implications for the Retina Specialist from Human Coronavirus Outbreaks and Animal Models. <i>Journal of Vitreoretinal Diseases</i> , 2020 , 4, 411-419	0.7	1
12	The associations of high academic performance with childhood ametropia prevalence and myopia development in China. <i>Annals of Translational Medicine</i> , 2021 , 9, 745	3.2	1
11	Ocular Imaging Standardization for Artificial Intelligence Applications in Ophthalmology: the Joint Position Statement and Recommendations From the Asia-Pacific Academy of Ophthalmology and the Asia-Pacific Ocular Imaging Society. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021 , 10, 348-349	3.5	1
10	Prediction of visual outcomes by an artificial neural network following intravitreal injection and laser therapy for retinopathy of prematurity. <i>British Journal of Ophthalmology</i> , 2020 , 104, 1277-1282	5.5	1
9	Enhanced Detection of Referable Diabetic Retinopathy via DCNNs and Transfer Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 282-288	0.9	0
8	Predicting Central Serous Chorioretinopathy Recurrence Using Machine Learning.. <i>Frontiers in Physiology</i> , 2021 , 12, 649316	4.6	0
7	Interpretation of artificial intelligence studies for the ophthalmologist. <i>Current Opinion in Ophthalmology</i> , 2020 , 31, 351-356	5.1	0
6	Evaluation of pediatric ophthalmologists' perspectives of artificial intelligence in ophthalmology. <i>Journal of AAPOS</i> , 2021 , 25, 164.e1-164.e5	1.3	0
5	The associations of population mobility in HIV disease severity and mortality rate in China. <i>Annals of Translational Medicine</i> , 2021 , 9, 315	3.2	0
4	Digital health in medicine: Important considerations in evaluating health economic analysis. <i>The Lancet Regional Health - Western Pacific</i> , 2022 , 23, 100476	5	0
3	Singapore Eye Lesions Analyzer (SELENA): The Deep Learning System for Retinal Diseases 2021 , 177-185		

- 2 Augmented Intelligence in Ophthalmology: The Six Rights. *Asia-Pacific Journal of Ophthalmology*, **2021**, 10, 231-233 3.5
- 1 Artificial Intelligence and Deep Learning in Ophthalmology **2022**, 1519-1552