

Robison Chan

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.

87
papers

1,836
citations

23
h-index

40
g-index

104
ext. papers

2,549
ext. citations

3.5
avg, IF

4.89
L-index

#	Paper	IF	Citations
87	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. <i>JAMA Ophthalmology</i> , 2018 , 136, 803-810	3.9	246
86	Retinopathy of prematurity: a review of risk factors and their clinical significance. <i>Survey of Ophthalmology</i> , 2018 , 63, 618-637	6.1	147
85	Long-term effect of antiangiogenic therapy for retinopathy of prematurity up to 5 years of follow-up. <i>Retina</i> , 2013 , 33, 329-38	3.6	90
84	Computer-Based Image Analysis for Plus Disease Diagnosis in Retinopathy of Prematurity: Performance of the "i-ROP" System and Image Features Associated With Expert Diagnosis. <i>Translational Vision Science and Technology</i> , 2015 , 4, 5	3.3	76
83	Expert Diagnosis of Plus Disease in Retinopathy of Prematurity From Computer-Based Image Analysis. <i>JAMA Ophthalmology</i> , 2016 , 134, 651-7	3.9	68
82	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
81	Computer-based image analysis for plus disease diagnosis in retinopathy of prematurity. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2012 , 49, 11-9; quiz 10, 20	0.9	58
80	Accuracy of retinopathy of prematurity diagnosis by retinal fellows. <i>Retina</i> , 2010 , 30, 958-65	3.6	56
79	PROGRESSIVE RETINAL DETACHMENT IN INFANTS WITH RETINOPATHY OF PREMATURETY TREATED WITH INTRAVITREAL BEVACIZUMAB OR RANIBIZUMAB. <i>Retina</i> , 2018 , 38, 1079-1083	3.6	53
78	Influence of Fluorescein Angiography on the Diagnosis and Management of Retinopathy of Prematurity. <i>Ophthalmology</i> , 2015 , 122, 1601-8	7.3	52
77	Ultra-widefield imaging for the management of pediatric retinal diseases. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2013 , 50, 282-8	0.9	50
76	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. <i>JAMA Ophthalmology</i> , 2019 ,	3.9	43
75	Plus disease in retinopathy of prematurity: qualitative analysis of diagnostic process by experts. <i>JAMA Ophthalmology</i> , 2013 , 131, 1026-32	3.9	43
74	Diagnostic Discrepancies in Retinopathy of Prematurity Classification. <i>Ophthalmology</i> , 2016 , 123, 1795-1801	3.9	40
73	Speed of telemedicine vs ophthalmoscopy for retinopathy of prematurity diagnosis. <i>American Journal of Ophthalmology</i> , 2009 , 148, 136-42.e2	4.9	40
72	Development and Evaluation of Reference Standards for Image-based Telemedicine Diagnosis and Clinical Research Studies in Ophthalmology 2014 , 2014, 1902-10	0.7	36
71	Early intravitreal treatment of endogenous bacterial endophthalmitis. <i>Clinical and Experimental Ophthalmology</i> , 2011 , 39, 771-8	2.4	33

70	Automated Fundus Image Quality Assessment in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. <i>Ophthalmology Retina</i> , 2019 , 3, 444-450	3.8	31
69	A Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning to Monitor Disease Regression After Treatment. <i>JAMA Ophthalmology</i> , 2019 ,	3.9	31
68	Rapid recovery of sympathetic ophthalmia with treatment augmented by intravitreal steroids. <i>Retina</i> , 2006 , 26, 243-7	3.6	30
67	Diagnostic Accuracy of Ophthalmoscopy vs Telemedicine in Examinations for Retinopathy of Prematurity. <i>JAMA Ophthalmology</i> , 2018 , 136, 498-504	3.9	27
66	Practice Patterns in Retinopathy of Prematurity Treatment for Disease Milder Than Recommended by Guidelines. <i>American Journal of Ophthalmology</i> , 2016 , 163, 1-10	4.9	24
65	The current state of retinopathy of prematurity in India, Kenya, Mexico, Nigeria, Philippines, Romania, Thailand, and Venezuela. <i>Digital Journal of Ophthalmology: DJO</i> , 2019 , 25, 49-58	1.3	24
64	Artificial Intelligence in Retinopathy of Prematurity Diagnosis. <i>Translational Vision Science and Technology</i> , 2020 , 9, 5	3.3	23
63	Assessment of a Tele-education System to Enhance Retinopathy of Prematurity Training by International Ophthalmologists-in-Training in Mexico. <i>Ophthalmology</i> , 2017 , 124, 953-961	7.3	22
62	Re: Good: Bevacizumab for retinopathy of prematurity: treatment when pathology is embedded in a normally developing vascular system (Ophthalmology. 2016;123:1843-1844). <i>Ophthalmology</i> , 2017 , 124, e74-e75	7.3	21
61	Color fundus photography versus fluorescein angiography in identification of the macular center and zone in retinopathy of prematurity. <i>American Journal of Ophthalmology</i> , 2015 , 159, 950-7.e2	4.9	20
60	Retinal Telemedicine. <i>Current Ophthalmology Reports</i> , 2018 , 6, 36-45	1.8	19
59	The Global Education Network for Retinopathy of Prematurity (Gen-Rop): Development, Implementation, and Evaluation of A Novel Tele-Education System (An American Ophthalmological Society Thesis). <i>Transactions of the American Ophthalmological Society</i> , 2015 , 113, T2		19
58	Aggressive posterior retinopathy of prematurity: a pilot study of quantitative analysis of vascular features. <i>Graefers Archive for Clinical and Experimental Ophthalmology</i> , 2015 , 253, 181-7	3.8	18
57	Retinopathy of prematurity residency training. <i>Ophthalmology</i> , 2012 , 119, 2644-5.e1-2	7.3	18
56	The Economic Model of Retinopathy of Prematurity (EcROP) Screening and Treatment: Mexico and the United States. <i>American Journal of Ophthalmology</i> , 2016 , 168, 110-121	4.9	17
55	Trans-palpebral illumination: an approach for wide-angle fundus photography without the need for pupil dilation. <i>Optics Letters</i> , 2016 , 41, 2688-91	3	17
54	Accuracy and Reliability of Eye-Based vs Quadrant-Based Diagnosis of Plus Disease in Retinopathy of Prematurity. <i>JAMA Ophthalmology</i> , 2018 , 136, 648-655	3.9	15
53	Implementation and evaluation of a tele-education system for the diagnosis of ophthalmic disease by international trainees 2015 , 2015, 366-75	0.7	14

52	SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY FINDINGS IN MACULA-INVOLVING CYTOMEGALOVIRUS RETINITIS. <i>Retina</i> , 2018 , 38, 1000-1010	3.6	13
51	Evaluation of artificial intelligence-based telemedicine screening for retinopathy of prematurity. <i>Journal of AAPOS</i> , 2020 , 24, 160-162	1.3	12
50	The use of digital imaging in the identification of skip areas after laser treatment for retinopathy of prematurity and its implications for education and patient care. <i>Retina</i> , 2013 , 33, 2162-9	3.6	12
49	Aggressive Posterior Retinopathy of Prematurity: Clinical and Quantitative Imaging Features in a Large North American Cohort. <i>Ophthalmology</i> , 2020 , 127, 1105-1112	7.3	11
48	SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY FINDINGS IN COATS DISEASE. <i>Retina</i> , 2019 , 39, 1177-1185	3.6	11
47	Retinopathy of prematurity in Africa: a systematic review. <i>Ophthalmic Epidemiology</i> , 2019 , 26, 223-230	1.9	9
46	Retinal Avascularity and Neovascularization Associated With LAMA1 (laminin1) Mutation in Poretti-Boltshauser Syndrome. <i>JAMA Ophthalmology</i> , 2018 , 136, 96-97	3.9	9
45	Association between assisted reproductive technology and advanced retinopathy of prematurity. <i>Clinical Ophthalmology</i> , 2010 , 4, 1385-90	2.5	9
44	Trans-pars-planar illumination enables a 200° ultra-wide field pediatric fundus camera for easy examination of the retina. <i>Biomedical Optics Express</i> , 2020 , 11, 68-76	3.5	9
43	Training of Residents and Fellows in Retinopathy of Prematurity Around the World: An International Web-Based Survey. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2019 , 56, 282-287	0.9	9
42	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale. <i>Ophthalmology</i> , 2021 , 128, 1070-1076	7.3	9
41	Contact-free trans-pars-planar illumination enables snapshot fundus camera for nonmydriatic wide field photography. <i>Scientific Reports</i> , 2018 , 8, 8768	4.9	8
40	Portable ultra-widefield fundus camera for multispectral imaging of the retina and choroid. <i>Biomedical Optics Express</i> , 2020 , 11, 6281-6292	3.5	8
39	Deep Learning for Image Quality Assessment of Fundus Images in Retinopathy of Prematurity 2018 , 2018, 1224-1232	0.7	8
38	Deep Learning for the Diagnosis of Stage in Retinopathy of Prematurity: Accuracy and Generalizability across Populations and Cameras. <i>Ophthalmology Retina</i> , 2021 , 5, 1027-1035	3.8	7
37	Anti-Vascular Endothelial Growth Factor and the Evolving Management Paradigm for Retinopathy of Prematurity. <i>Asia-Pacific Journal of Ophthalmology</i> , 2018 , 7, 136-144	3.5	6
36	Influence of Computer-Generated Mosaic Photographs on Retinopathy of Prematurity Diagnosis and Management. <i>JAMA Ophthalmology</i> , 2016 , 134, 1283-1289	3.9	6
35	Telemedical Diagnosis of Stage 4 and Stage 5 Retinopathy of Prematurity. <i>Ophthalmology Retina</i> , 2018 , 2, 59-64	3.8	5

34	Changes in Relative Position of Choroidal Versus Retinal Vessels in Preterm Infants 2017 , 58, 6334-6341		4
33	Plus Disease in Retinopathy of Prematurity: More Than Meets the ICROP?. <i>Asia-Pacific Journal of Ophthalmology</i> , 2018 , 7, 152-155	3.5	4
32	Variability in Plus Disease Identified Using a Deep Learning-Based Retinopathy of Prematurity Severity Scale. <i>Ophthalmology Retina</i> , 2020 , 4, 1016-1021	3.8	4
31	Implementation of COVID-19 Protocols and Tele-Triage in an Academic Ophthalmology Department. <i>Journal of Academic Ophthalmology (2017)</i> , 2020 , 12, e151-e158	0.7	4
30	Resolution of foveal schisis in X-linked retinoschisis in the setting of retinal detachment. <i>Journal of AAPOS</i> , 2015 , 19, 172-4	1.3	3
29	Three-dimensional spectral domain optical coherence tomography and light microscopy of an intravitreal parasite. <i>Journal of Ophthalmic Inflammation and Infection</i> , 2015 , 5, 33	2.3	3
28	Macular star associated with Behçet disease. <i>Retina</i> , 2006 , 26, 468-70	3.6	3
27	Assessment and management of retinopathy of prematurity in the era of anti-vascular endothelial growth factor (VEGF). <i>Progress in Retinal and Eye Research</i> , 2021 , 101018	20.5	3
26	Identification of candidate genes and pathways in retinopathy of prematurity by whole exome sequencing of preterm infants enriched in phenotypic extremes. <i>Scientific Reports</i> , 2021 , 11, 4966	4.9	3
25	Characterization of errors in retinopathy of prematurity (ROP) diagnosis by ophthalmology residents. <i>Journal of AAPOS</i> , 2016 , 20, e44	1.3	3
24	Re: Lepore et al.: Follow-up to age 4 years of treatment of type 1 retinopathy of prematurity intravitreal bevacizumab injection versus laser: fluorescein angiographic findings (Ophthalmology. 2018;125:218-226). <i>Ophthalmology</i> , 2018 , 125, e70-e71	7.3	3
23	Reversal of Retinal Vascular Leakage and Arrest of Progressive Retinal Nonperfusion With Monthly Anti-Vascular Endothelial Growth Factor Therapy for Proliferative Diabetic Retinopathy. <i>Retina</i> , 2018 , 38, e74-e75	3.6	3
22	Science and art in retinopathy of prematurity diagnosis. <i>Graefers Archive for Clinical and Experimental Ophthalmology</i> , 2016 , 254, 201-2	3.8	2
21	Evaluation of Potential Systemic Adverse Events Related to Fluorescein Angiography in Pediatric Patients. <i>Ophthalmology Retina</i> , 2020 , 4, 595-601	3.8	2
20	Persistent Angiographic Abnormalities After Intravitreal Anti-Vascular Endothelial Growth Factor Therapy for Retinopathy of Prematurity. <i>JAMA Ophthalmology</i> , 2018 , 136, 436-437	3.9	2
19	Retinal vascular nonperfusion in siblings with Dandy-Walker variant. <i>Journal of AAPOS</i> , 2016 , 20, 174-7	1.3	2
18	Assessing the value of preoperative medical clearance in patients with primary rhegmatogenous retinal detachment. <i>Clinical Ophthalmology</i> , 2019 , 13, 1711-1718	2.5	2
17	Inconsistencies in the Diagnosis of Aggressive Posterior Retinopathy of Prematurity. <i>Journal of Vitreoretinal Diseases</i> , 2017 , 1, 181-186	0.7	2

16	Deepfakes in Ophthalmology. <i>Ophthalmology Science</i> , 2021 , 1, 100079		2
15	Impact of Artificial Intelligence on Medical Education in Ophthalmology. <i>Translational Vision Science and Technology</i> , 2021 , 10, 14	3.3	2
14	Addressing the Third Epidemic of Retinopathy of Prematurity Through Telemedicine and Technology: A Systematic Review. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2021 , 58, 261-269	0.9	2
13	Assessment of a novel ophthalmology tele-triage system during the COVID-19 pandemic. <i>BMC Ophthalmology</i> , 2021 , 21, 346	2.3	2
12	Wide-field fundus imaging with trans-palpebral illumination. <i>Proceedings of SPIE</i> , 2017 , 10045,	1.7	1
11	Cytomegalovirus Retinitis Outcomes in HIV-Infected and Non-HIV Patients at a Tertiary Care Center. <i>Journal of Vitreoretinal Diseases</i> , 2017 , 1, 57-64	0.7	1
10	Artificial Intelligence in Retinopathy of Prematurity Diagnosis. <i>Translational Vision Science and Technology</i> , 2020 , 210, 2010	3.3	1
9	Development of Screening Criteria for Retinopathy of Prematurity in Ulaanbaatar, Mongolia, Using a Web-based Data Management System. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2020 , 57, 333-339	0.9	1
8	Adherence to Urgent Eye Visits during the COVID-19 Pandemic: A Population Characteristics Study.. <i>Ophthalmic Epidemiology</i> , 2021 , 1-8	1.9	1
7	Regionally Specific Economic Impact of Screening and Treating Retinopathy of Prematurity in Middle-Income Societies in the Philippines. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2019 , 56, 388-396	0.9	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	Toward a severity index for ROP: An unsupervised approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 1312-1315	0.9	0
4	Evaluation of computer-based retinopathy of prematurity (ROP) education for ophthalmology residents: a randomized, controlled, multicenter study. <i>Journal of AAPOS</i> , 2019 , 23, 86.e1-86.e7	1.3	
3	International Publication Trends of Retinopathy of Prematurity Literature Over 40 Years. <i>Journal of Vitreoretinal Diseases</i> , 2017 , 1, 392-396	0.7	
2	Intravitreal Steroid Therapy in the Management of Diabetic Macular Edema. <i>Current Ophthalmology Reports</i> , 2016 , 4, 56-60	1.8	
1	E-Education in ROP 2021 , 147-150		