

# Robison Chan

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

3,266  
citations

186209

28  
h-index

168321

53  
g-index

104  
all docs

104  
docs citations

104  
times ranked

2109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. JAMA Ophthalmology, 2018, 136, 803.	1.4	442
2	Retinopathy of prematurity: a review of risk factors and their clinical significance. Survey of Ophthalmology, 2018, 63, 618-637.	1.7	305
3	Digital technology, tele-medicine and artificial intelligence in ophthalmology: A global perspective. Progress in Retinal and Eye Research, 2021, 82, 100900.	7.3	261
4	LONG-TERM EFFECT OF ANTIANGIOGENIC THERAPY FOR RETINOPATHY OF PREMATURITY Up to 5 Years of Follow-up. Retina, 2013, 33, 329-338.	1.0	105
5	Computer-Based Image Analysis for Plus Disease Diagnosis in Retinopathy of Prematurity: Performance of the "ROP" System and Image Features Associated With Expert Diagnosis. Translational Vision Science and Technology, 2015, 4, 5.	1.1	105
6	Expert Diagnosis of Plus Disease in Retinopathy of Prematurity From Computer-Based Image Analysis. JAMA Ophthalmology, 2016, 134, 651.	1.4	95
7	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. JAMA Ophthalmology, 2019, 137, 1022.	1.4	81
8	PROGRESSIVE RETINAL DETACHMENT IN INFANTS WITH RETINOPATHY OF PREMATURITY TREATED WITH INTRAVITREAL BEVACIZUMAB OR RANIBIZUMAB. Retina, 2018, 38, 1079-1083.	1.0	73
9	Computer-Based Image Analysis for Plus Disease Diagnosis in Retinopathy of Prematurity. Journal of Pediatric Ophthalmology and Strabismus, 2012, 49, 11-19.	0.3	72
10	ACCURACY OF RETINOPATHY OF PREMATURITY DIAGNOSIS BY RETINAL FELLOWS. Retina, 2010, 30, 958-965.	1.0	64
11	Influence of Fluorescein Angiography on the Diagnosis and Management of Retinopathy of Prematurity. Ophthalmology, 2015, 122, 1601-1608.	2.5	64
12	A Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning to Monitor Disease Regression After Treatment. JAMA Ophthalmology, 2019, 137, 1029.	1.4	63
13	Plus Disease in Retinopathy of Prematurity. JAMA Ophthalmology, 2013, 131, 1026.	1.4	61
14	Ultra-Widefield Imaging for the Management of Pediatric Retinal Diseases. Journal of Pediatric Ophthalmology and Strabismus, 2013, 50, 282-288.	0.3	60
15	Diagnostic Discrepancies in Retinopathy of Prematurity Classification. Ophthalmology, 2016, 123, 1795-1801.	2.5	57
16	Artificial Intelligence in Retinopathy of Prematurity Diagnosis. Translational Vision Science and Technology, 2020, 9, 5.	1.1	56
17	Diagnostic Accuracy of Ophthalmoscopy vs Telemedicine in Examinations for Retinopathy of Prematurity. JAMA Ophthalmology, 2018, 136, 498.	1.4	49
18	Speed of Telemedicine vs Ophthalmoscopy for Retinopathy of Prematurity Diagnosis. American Journal of Ophthalmology, 2009, 148, 136-142.e2.	1.7	47

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19	Early intravitreal treatment of endogenous bacterial endophthalmitis. Clinical and Experimental Ophthalmology, 2011, 39, 771-778.	1.3	45
20	Automated Fundus Image Quality Assessment in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. Ophthalmology Retina, 2019, 3, 444-450.	1.2	45
21	The current state of retinopathy of prematurity in India, Kenya, Mexico, Nigeria, Philippines, Romania, Thailand, and Venezuela. Digital Journal of Ophthalmology: DJO, 2019, 25, 49-58.	0.2	45
22	Evaluation of a Deep Learningâ€Derived Quantitative Retinopathy of Prematurity Severity Scale. Ophthalmology, 2021, 128, 1070-1076.	2.5	40
23	Development and Evaluation of Reference Standards for Image-based Telemedicine Diagnosis and Clinical Research Studies in Ophthalmology. AMIA ... Annual Symposium proceedings, 2014, 2014, 1902-10.	0.2	39
24	Practice Patterns in Retinopathy of Prematurity Treatment for Disease Milder Than Recommended by Guidelines. American Journal of Ophthalmology, 2016, 163, 1-10.	1.7	35
25	Assessment and management of retinopathy of prematurity in the era of anti-vascular endothelial growth factor (VEGF). Progress in Retinal and Eye Research, 2022, 88, 101018.	7.3	34
26	RAPID RECOVERY OF SYMPATHETIC OPHTHALMIA WITH TREATMENT AUGMENTED BY INTRAVITREAL STEROIDS. Retina, 2006, 26, 243-247.	1.0	33
27	Trans-palpebral illumination: an approach for wide-angle fundus photography without the need for pupil dilation. Optics Letters, 2016, 41, 2688.	1.7	33
28	Assessment of a Tele-education System to Enhance Retinopathy of Prematurity Training by International Ophthalmologists-in-Training in Mexico. Ophthalmology, 2017, 124, 953-961.	2.5	32
29	Evaluation of artificial intelligence-based telemedicine screening for retinopathy of prematurity. Journal of AAPOS, 2020, 24, 160-162.	0.2	31
30	Deep Learning for the Diagnosis of Stage in Retinopathy of Prematurity. Ophthalmology Retina, 2021, 5, 1027-1035.	1.2	31
31	The Economic Model of Retinopathy of Prematurity (EcROP) Screening and Treatment: Mexico and the United States. American Journal of Ophthalmology, 2016, 168, 110-121.	1.7	28
32	Retinal Telemedicine. Current Ophthalmology Reports, 2018, 6, 36-45.	0.5	28
33	Color Fundus Photography Versus Fluorescein Angiography in Identification of the Macular Center and Zone in Retinopathy of Prematurity. American Journal of Ophthalmology, 2015, 159, 950-957.e2.	1.7	27
34	Aggressive Posterior Retinopathy of Prematurity. Ophthalmology, 2020, 127, 1105-1112.	2.5	27
35	Re: Good: Bevacizumab for retinopathy of prematurity: treatment when pathology is embedded in a normally developing vascular system ( Ophthalmology . 2016;123:1843-1844). Ophthalmology, 2017, 124, e74-e75.	2.5	25
36	Retinopathy of prematurity in Africa: a systematic review. Ophthalmic Epidemiology, 2019, 26, 223-230.	0.8	23

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37	Portable ultra-widefield fundus camera for multispectral imaging of the retina and choroid. <i>Biomedical Optics Express</i> , 2020, 11, 6281.	1.5	23
38	The Global Education Network for Retinopathy of Prematurity (Gen-Rop): Development, Implementation, and Evaluation of A Novel Tele-Education System (An American Ophthalmological Society Retina Special Interest Group Report). <i>Journal of Retinal Thrombolysis and Tele-Ophthalmology</i> , 2021, 10, 101-110.	0.4	10
39	Accuracy and Reliability of Eye-Based vs Quadrant-Based Diagnosis of Plus Disease in Retinopathy of Prematurity. <i>JAMA Ophthalmology</i> , 2018, 136, 648.	1.4	22
40	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.	1.5	22
41	Retinopathy of Prematurity Residency Training. <i>Ophthalmology</i> , 2012, 119, 2644-2645.e2.	2.5	21
42	Cost-effectiveness of Artificial Intelligence-Based Retinopathy of Prematurity Screening. <i>JAMA Ophthalmology</i> , 2022, 140, 401.	1.4	21
43	Aggressive posterior retinopathy of prematurity: a pilot study of quantitative analysis of vascular features. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2015, 253, 181-187.	1.0	20
44	Teleophthalmology and the digital divide: inequities highlighted by the COVID-19 pandemic. <i>Eye</i> , 2021, 35, 1529-1531.	1.1	20
45	Impact of Artificial Intelligence on Medical Education in Ophthalmology. <i>Translational Vision Science and Technology</i> , 2021, 10, 14.	1.1	20
46	Deepfakes in Ophthalmology. <i>Ophthalmology Science</i> , 2021, 1, 100079.	1.0	20
47	Federated Learning for Multicenter Collaboration in Ophthalmology. <i>Ophthalmology Retina</i> , 2022, 6, 657-663.	1.2	20
48	External Validation of a Retinopathy of Prematurity Screening Model Using Artificial Intelligence in 3 Low- and Middle-Income Populations. <i>JAMA Ophthalmology</i> , 2022, 140, 791.	1.4	19
49	SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY FINDINGS IN MACULA-INVOLVING CYTOMEGALOVIRUS RETINITIS. <i>Retina</i> , 2018, 38, 1000-1010.	1.0	18
50	Variability in Plus Disease Identified Using a Deep Learning-Based Retinopathy of Prematurity Severity Scale. <i>Ophthalmology Retina</i> , 2020, 4, 1016-1021.	1.2	18
51	Single-Examination Risk Prediction of Severe Retinopathy of Prematurity. <i>Pediatrics</i> , 2021, 148, .	1.0	18
52	Contact-free trans-pars-planar illumination enables snapshot fundus camera for nonmydriatic wide field photography. <i>Scientific Reports</i> , 2018, 8, 8768.	1.6	17
53	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.	0.3	16
54	Implementation and evaluation of a tele-education system for the diagnosis of ophthalmic disease by international trainees. <i>AMIA ... Annual Symposium proceedings</i> , 2015, 2015, 366-75.	0.2	16

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55	Federated Learning for Multicenter Collaboration in Ophthalmology. <i>Ophthalmology Retina</i> , 2022, 6, 650-656.	1.2	15
56	Retinal Avascularity and Neovascularization Associated With <i>LAMA1</i> (laminin1) Mutation in Poretti-Boltshauser Syndrome. <i>JAMA Ophthalmology</i> , 2018, 136, 96.	1.4	14
57	SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY FINDINGS IN COATS DISEASE. <i>Retina</i> , 2019, 39, 1177-1185.	1.0	14
58	Association between assisted reproductive technology and advanced retinopathy of prematurity. <i>Clinical Ophthalmology</i> , 2010, 4, 1385.	0.9	13
59	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, 2162-2169.	1.0	13
60	Keeping our eyecare providers and patients safe during the COVID-19 pandemic. <i>Eye</i> , 2020, 34, 1161-1162.	1.1	13
61	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.	0.3	12
62	Implementation of COVID-19 Protocols and Tele-Triage in an Academic Ophthalmology Department. <i>Journal of Academic Ophthalmology (2017)</i> , 2020, 12, e151-e158.	0.2	9
63	Evaluation of Potential Systemic Adverse Events Related to Fluorescein Angiography in Pediatric Patients. <i>Ophthalmology Retina</i> , 2020, 4, 595-601.	1.2	9
64	Deep Learning for Image Quality Assessment of Fundus Images in Retinopathy of Prematurity. <i>AMIA ... Annual Symposium proceedings</i> , 2018, 2018, 1224-1232.	0.2	9
65	Influence of Computer-Generated Mosaic Photographs on Retinopathy of Prematurity Diagnosis and Management. <i>JAMA Ophthalmology</i> , 2016, 134, 1283.	1.4	8
66	Anti-VEGF Vascular Endothelial Growth Factor and the Evolving Management Paradigm for Retinopathy of Prematurity. <i>Asia-Pacific Journal of Ophthalmology</i> , 2017, 7, 136-144.	1.3	8
67	Telemedical Diagnosis of Stage 4 and Stage 5 Retinopathy of Prematurity. <i>Ophthalmology Retina</i> , 2018, 2, 59-64.	1.2	8
68	Reversal of Retinal Vascular Leakage and Arrest of Progressive Retinal Nonperfusion With Monthly Anti-VEGF Vascular Endothelial Growth Factor Therapy for Proliferative Diabetic Retinopathy. <i>Retina</i> , 2018, 38, e74-e75.	1.0	8
69	Changes in Relative Position of Choroidal Versus Retinal Vessels in Preterm Infants. , 2017, 58, 6334.		7
70	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.	1.6	7
71	Evaluation of pediatric ophthalmologists' perspectives of artificial intelligence in ophthalmology. <i>Journal of AAPOS</i> , 2021, 25, 164.e1-164.e5.	0.2	7
72	Digital Education in Ophthalmology. <i>Asia-Pacific Journal of Ophthalmology</i> , 2022, 11, 267-272.	1.3	7

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73	MACULAR STAR ASSOCIATED WITH BEHÄT DISEASE. Retina, 2006, 26, 468-470.	1.0	5
74	Resolution of foveal schisis in X-linked retinoschisis in the setting of retinal detachment. Journal of AAPOS, 2015, 19, 172-174.	0.2	5
75	Plus Disease in Retinopathy of Prematurity: More Than Meets the ICROP?. Asia-Pacific Journal of Ophthalmology, 2017, 7, 152-155.	1.3	5
76	Assessment of a novel ophthalmology tele-triage system during the COVID-19 pandemic. BMC Ophthalmology, 2021, 21, 346.	0.6	5
77	Development of Screening Criteria for Retinopathy of Prematurity in Ulaanbaatar, Mongolia, Using a Web-based Data Management System. Journal of Pediatric Ophthalmology and Strabismus, 2020, 57, 333-339.	0.3	5
78	Persistent Angiographic Abnormalities After Intravitreal Antiâ€Vascular Endothelial Growth Factor Therapy for Retinopathy of Prematurity. JAMA Ophthalmology, 2018, 136, 436.	1.4	4
79	Re: Lepore etÂal.: Follow-up to age 4 years of treatment of type 1 retinopathy of prematurity intravitreal bevacizumab injection versus laser: fluorescein angiographic findings (Ophthalmology.) Tj ETQq1 1 0.784314 rgBT 40verlock40 Tf 504	1.0	4
80	Bringing Ophthalmic Graduate Medical Education into the 2020s with Information Technology. Ophthalmology, 2021, 128, 349-353.	2.5	4
81	Three-dimensional spectral domain optical coherence tomography and light microscopy of an intravitreal parasite. Journal of Ophthalmic Inflammation and Infection, 2015, 5, 33.	1.2	3
82	Characterization of errors in retinopathy of prematurity (ROP) diagnosis by ophthalmology residents. Journal of AAPOS, 2016, 20, e44.	0.2	3
83	Retinal vascular nonperfusion in siblings with Dandy-Walker variant. Journal of AAPOS, 2016, 20, 174-177.	0.2	3
84	&lt;p&gt;Assessing the value of preoperative medical clearance in patients with primary rhegmatogenous retinal detachment&lt;/p&gt;. Clinical Ophthalmology, 2019, Volume 13, 1711-1718.	0.9	3
85	Regionally Specific Economic Impact of Screening and Treating Retinopathy of Prematurity in Middle-Income Societies in the Philippines. Journal of Pediatric Ophthalmology and Strabismus, 2019, 56, 388-396.	0.3	3
86	Toward a severity index for ROP: An unsupervised approach. , 2016, 2016, 1312-1315.		2
87	Science and art in retinopathy of prematurity diagnosis. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 201-202.	1.0	2
88	Inconsistencies in the Diagnosis of Aggressive Posterior Retinopathy of Prematurity. Journal of Vitreoretinal Diseases, 2017, 1, 181-186.	0.2	2
89	Artificial Intelligence in Retinopathy of Prematurity Diagnosis. Translational Vision Science and Technology, 2020, 210, 2010.	1.1	2
90	Adherence to Urgent Eye Visits during the COVID-19 Pandemic: A Population Characteristics Study. Ophthalmic Epidemiology, 2022, 29, 613-620.	0.8	2

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91	Variability in Plus Disease Diagnosis using Single and Serial Images. <i>Ophthalmology Retina</i> , 2022, 6, 1122-1129.	1.2	2
92	Wide-field fundus imaging with trans-palpebral illumination. , 2017, 10045, .		1
93	Latest Developments in the Management of AMD. <i>Asia-Pacific Journal of Ophthalmology</i> , 2017, 6, 477-478.	1.3	1
94	Cytomegalovirus Retinitis Outcomes in HIV-Infected and Nonâ€“HIV Patients at a Tertiary Care Center. <i>Journal of Vitreoretinal Diseases</i> , 2017, 1, 57-64.	0.2	1
95	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.	0.2	1
96	Retinopathy of prematurity classification updates: possible implications for treatment. <i>Journal of AAPOS</i> , 2022, 26, 109-112.	0.2	1
97	Current Management of Retinopathy of Prematurity. <i>Current Treatment Options in Pediatrics</i> , 2022, 8, 246-261.	0.2	1
98	Intravitreal Steroid Therapy in the Management of Diabetic Macular Edema. <i>Current Ophthalmology Reports</i> , 2016, 4, 56-60.	0.5	0
99	International Publication Trends of Retinopathy of Prematurity Literature Over 40 Years. <i>Journal of Vitreoretinal Diseases</i> , 2017, 1, 392-396.	0.2	0
100	Pediatric Retinal Diseases. <i>Asia-Pacific Journal of Ophthalmology</i> , 2017, 7, 129.	1.3	0