

Susan Ostmo

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.

50
papers

1,131
citations

19
h-index

33
g-index

59
ext. papers

1,581
ext. citations

4.1
avg, IF

4.06
L-index

#	Paper	IF	Citations
50	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
49	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
48	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
47	Evaluation of a deep learning image assessment system for detecting severe retinopathy of prematurity. <i>British Journal of Ophthalmology</i> , 2018 ,	5.5	53
46	Influence of Fluorescein Angiography on the Diagnosis and Management of Retinopathy of Prematurity. <i>Ophthalmology</i> , 2015 , 122, 1601-8	7.3	52
45	Plus Disease in Retinopathy of Prematurity: A Continuous Spectrum of Vascular Abnormality as a Basis of Diagnostic Variability. <i>Ophthalmology</i> , 2016 , 123, 2338-2344	7.3	45
44	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. <i>JAMA Ophthalmology</i> , 2019 ,	3.9	43
43	Plus Disease in Retinopathy of Prematurity: Improving Diagnosis by Ranking Disease Severity and Using Quantitative Image Analysis. <i>Ophthalmology</i> , 2016 , 123, 2345-2351	7.3	43
42	Diagnostic Discrepancies in Retinopathy of Prematurity Classification. <i>Ophthalmology</i> , 2016 , 123, 1795-1801	7.3	40
41	Development and Evaluation of Reference Standards for Image-based Telemedicine Diagnosis and Clinical Research Studies in Ophthalmology 2014 , 2014, 1902-10	0.7	36
40	Evaluation of Screening for Retinopathy of Prematurity by ROPTool or a Lay Reader. <i>Ophthalmology</i> , 2016 , 123, 385-390	7.3	35
39	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
38	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
37	Diagnostic Accuracy of Ophthalmoscopy vs Telemedicine in Examinations for Retinopathy of Prematurity. <i>JAMA Ophthalmology</i> , 2018 , 136, 498-504	3.9	27
36	Risk factors for retinopathy of prematurity: insights from outlier infants. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2014 , 252, 1669-77	3.8	25
35	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
34	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

33	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
32	Retinal Telemedicine. <i>Current Ophthalmology Reports</i> , 2018 , 6, 36-45	1.8	19
31	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
30	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
29	Implementation and evaluation of a tele-education system for the diagnosis of ophthalmic disease by international trainees 2015 , 2015, 366-75	0.7	14
28	High-speed and widefield handheld swept-source OCT angiography with a VCSEL light source. <i>Biomedical Optics Express</i> , 2021 , 12, 3553-3570	3.5	14
27	Evaluation of artificial intelligence-based telemedicine screening for retinopathy of prematurity. <i>Journal of AAPOS</i> , 2020 , 24, 160-162	1.3	12
26	Classification and comparison via neural networks. <i>Neural Networks</i> , 2019 , 118, 65-80	9.1	11
25	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
24	Plus Disease in Retinopathy of Prematurity: Convolutional Neural Network Performance Using a Combined Neural Network and Feature Extraction Approach. <i>Translational Vision Science and Technology</i> , 2020 , 9, 10	3.3	9
23	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale. <i>Ophthalmology</i> , 2021 , 128, 1070-1076	7.3	9
22	Plus Disease in Retinopathy of Prematurity: Diagnostic Trends in 2016 Versus 2007. <i>American Journal of Ophthalmology</i> , 2017 , 176, 70-76	4.9	8
21	Deep Learning for Image Quality Assessment of Fundus Images in Retinopathy of Prematurity 2018 , 2018, 1224-1232	0.7	8
20	Applications of Artificial Intelligence for Retinopathy of Prematurity Screening. <i>Pediatrics</i> , 2021 , 147,	7.4	8
19	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
18	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
17	Influence of Computer-Generated Mosaic Photographs on Retinopathy of Prematurity Diagnosis and Management. <i>JAMA Ophthalmology</i> , 2016 , 134, 1283-1289	3.9	6
16	Telemedical Diagnosis of Stage 4 and Stage 5 Retinopathy of Prematurity. <i>Ophthalmology Retina</i> , 2018 , 2, 59-64	3.8	5

15	Neurodevelopmental outcomes in preterm infants with retinopathy of prematurity. <i>Survey of Ophthalmology</i> , 2021 , 66, 877-891	6.1	5
14	Changes in Relative Position of Choroidal Versus Retinal Vessels in Preterm Infants 2017 , 58, 6334-6341		4
13	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
12	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
11	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
10	Inconsistencies in the Diagnosis of Aggressive Posterior Retinopathy of Prematurity. <i>Journal of Vitreoretinal Diseases</i> , 2017 , 1, 181-186	0.7	2
9	Synthetic Medical Images for Robust, Privacy-Preserving Training of AI: Application to Retinopathy of Prematurity Diagnosis. <i>Ophthalmology Science</i> , 2022 , 100126		2
8	105° field of view non-contact handheld swept-source optical coherence tomography. <i>Optics Letters</i> , 2021 , 46, 5878-5881	3	2
7	Peripheral OCT Assisted by Scleral Depression in Retinopathy of Prematurity.. <i>Ophthalmology Science</i> , 2022 , 2,		1
6	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
5	Peripheral optical coherence tomography assisted by scleral depression in retinopathy of prematurity		1
4	Evaluation of an Artificial Intelligence System for Retinopathy of Prematurity Screening in Nepal and Mongolia. <i>Ophthalmology Science</i> , 2022 , 100165		1
3	Advantages of Widefield Optical Coherence Tomography in the Diagnosis of Retinopathy of Prematurity.. <i>Frontiers in Pediatrics</i> , 2021 , 9, 797684	3.4	0
2	Improved training efficiency for retinopathy of prematurity deep learning models using comparison versus class labels. <i>Ophthalmology Science</i> , 2022 , 100122		
1	Diagnosability of Synthetic Retinal Fundus Images for Plus Disease Detection in Retinopathy of Prematurity 2020 , 2020, 329-337	0.7	