Susan Ostmo

List of Publications by Year in Descending Order

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	Improved training efficiency for retinopathy of prematurity deep learning models using comparison versus class labels. *Ophthalmology Science*, **2022**, 100122		
49	Synthetic Medical Images for Robust, Privacy-Preserving Training of AI:Application to Retinopathy of Prematurity Diagnosis. *Ophthalmology Science*, **2022**, 100126		2
48	Peripheral OCT Assisted by Scleral Depression in Retinopathy of Prematurity.. *Ophthalmology Science*, **2022**, 2,		1
47	Evaluation of an Artificial Intelligence System for Retinopathy of Prematurity Screening in Nepal and Mongolia. *Ophthalmology Science*, **2022**, 100165		1
46	Advantages of Widefield Optical Coherence Tomography in the Diagnosis of Retinopathy of Prematurity.. *Frontiers in Pediatrics*, **2021**, 9, 797684	3.4	0
45	105° field of view non-contact handheld swept-source optical coherence tomography. *Optics Letters*, **2021**, 46, 5878-5881	3	2
44	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale. *Ophthalmology*, **2021**, 128, 1070-1076	7.3	9
43	Identification of candidate genes and pathways in retinopathy of prematurity by whole exome sequencing of preterm infants enriched in phenotypic extremes. *Scientific Reports*, **2021**, 11, 4966	4.9	3
42	High-speed and widefield handheld swept-source OCT angiography with a VCSEL light source. *Biomedical Optics Express*, **2021**, 12, 3553-3570	3.5	14
41	Applications of Artificial Intelligence for Retinopathy of Prematurity Screening. *Pediatrics*, **2021**, 147,	7.4	8
40	Neurodevelopmental outcomes in preterm infants with retinopathy of prematurity. *Survey of Ophthalmology*, **2021**, 66, 877-891	6.1	5
39	Deep Learning for the Diagnosis of Stage in Retinopathy of Prematurity: Accuracy and Generalizability across Populations and Cameras. *Ophthalmology Retina*, **2021**, 5, 1027-1035	3.8	7
38	Aggressive Posterior Retinopathy of Prematurity: Clinical and Quantitative Imaging Features in a Large North American Cohort. *Ophthalmology*, **2020**, 127, 1105-1112	7.3	11
37	Plus Disease in Retinopathy of Prematurity: Convolutional Neural Network Performance Using a Combined Neural Network and Feature Extraction Approach. *Translational Vision Science and Technology*, **2020**, 9, 10	3.3	9
36	Evaluation of artificial intelligence-based telemedicine screening for retinopathy of prematurity. *Journal of AAPOS*, **2020**, 24, 160-162	1.3	12
35	Diagnosability of Synthetic Retinal Fundus Images for Plus Disease Detection in Retinopathy of Prematurity **2020**, 2020, 329-337	0.7	
34	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	0.9	1

33	Variability in Plus Disease Identified Using a Deep Learning-Based Retinopathy of Prematurity Severity Scale. *Ophthalmology Retina*, **2020**, 4, 1016-1021	3.8	4
32	Automated Fundus Image Quality Assessment in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. *Ophthalmology Retina*, **2019**, 3, 444-450	3.8	31
31	Classification and comparison via neural networks. *Neural Networks*, **2019**, 118, 65-80	9.1	11
30	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. *JAMA Ophthalmology*, **2019**,	3.9	43
29	A Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning to Monitor Disease Regression After Treatment. *JAMA Ophthalmology*, **2019**,	3.9	31
28	Accuracy and Reliability of Eye-Based vs Quadrant-Based Diagnosis of Plus Disease in Retinopathy of Prematurity. *JAMA Ophthalmology*, **2018**, 136, 648-655	3.9	15
27	Diagnostic Accuracy of Ophthalmoscopy vs Telemedicine in Examinations for Retinopathy of Prematurity. *JAMA Ophthalmology*, **2018**, 136, 498-504	3.9	27
26	Retinal Telemedicine. *Current Ophthalmology Reports*, **2018**, 6, 36-45	1.8	19
25	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. *JAMA Ophthalmology*, **2018**, 136, 803-810	3.9	246
24	Telemedical Diagnosis of Stage 4 and Stage 5 Retinopathy of Prematurity. *Ophthalmology Retina*, **2018**, 2, 59-64	3.8	5
23	Anti-Vascular Endothelial Growth Factor and the Evolving Management Paradigm for Retinopathy of Prematurity. *Asia-Pacific Journal of Ophthalmology*, **2018**, 7, 136-144	3.5	6
22	Plus Disease in Retinopathy of Prematurity: More Than Meets the ICROP?. *Asia-Pacific Journal of Ophthalmology*, **2018**, 7, 152-155	3.5	4
21	Deep Learning for Image Quality Assessment of Fundus Images in Retinopathy of Prematurity **2018** , 2018, 1224-1232	0.7	8
20	Evaluation of a deep learning image assessment system for detecting severe retinopathy of prematurity. *British Journal of Ophthalmology*, **2018**,	5.5	53
19	Plus Disease in Retinopathy of Prematurity: Diagnostic Trends in 2016 Versus 2007. *American Journal of Ophthalmology*, **2017**, 176, 70-76	4.9	8
18	Assessment of a Tele-education System to Enhance Retinopathy of Prematurity Training by International Ophthalmologists-in-Training in Mexico. *Ophthalmology*, **2017**, 124, 953-961	7.3	22
17	Changes in Relative Position of Choroidal Versus Retinal Vessels in Preterm Infants **2017**, 58, 6334-6341		4
16	Inconsistencies in the Diagnosis of Aggressive Posterior Retinopathy of Prematurity. *Journal of Vitreoretinal Diseases*, **2017**, 1, 181-186	0.7	2

15	Diagnostic Discrepancies in Retinopathy of Prematurity Classification. *Ophthalmology*, **2016**, 123, 1795-1801	7.3	40
14	Practice Patterns in Retinopathy of Prematurity Treatment for Disease Milder Than Recommended by Guidelines. *American Journal of Ophthalmology*, **2016**, 163, 1-10	4.9	24
13	Evaluation of Screening for Retinopathy of Prematurity by ROPtool or a Lay Reader. *Ophthalmology* , **2016**, 123, 385-390	7.3	35
12	Expert Diagnosis of Plus Disease in Retinopathy of Prematurity From Computer-Based Image Analysis. *JAMA Ophthalmology*, **2016**, 134, 651-7	3.9	68
11	Plus Disease in Retinopathy of Prematurity: Improving Diagnosis by Ranking Disease Severity and Using Quantitative Image Analysis. *Ophthalmology*, **2016**, 123, 2345-2351	7.3	43
10	Influence of Computer-Generated Mosaic Photographs on Retinopathy of Prematurity Diagnosis and Management. *JAMA Ophthalmology*, **2016**, 134, 1283-1289	3.9	6
9	Plus Disease in Retinopathy of Prematurity: A Continuous Spectrum of Vascular Abnormality as a Basis of Diagnostic Variability. *Ophthalmology*, **2016**, 123, 2338-2344	7.3	45
8	Color fundus photography versus fluorescein angiography in identification of the macular center and zone in retinopathy of prematurity. *American Journal of Ophthalmology*, **2015**, 159, 950-7.e2	4.9	20
7	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. *Translational Vision Science and Technology*, **2015**, 4, 5	3.3	76
6	Influence of Fluorescein Angiography on the Diagnosis and Management of Retinopathy of Prematurity. *Ophthalmology*, **2015**, 122, 1601-8	7.3	52
5	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). *Transactions of the American Ophthalmological Society*, **2015**, 113, T2		19
4	Implementation and evaluation of a tele-education system for the diagnosis of ophthalmic disease by international trainees **2015**, 2015, 366-75	0.7	14
3	Risk factors for retinopathy of prematurity: insights from outlier infants. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2014**, 252, 1669-77	3.8	25
2	Development and Evaluation of Reference Standards for Image-based Telemedicine Diagnosis and Clinical Research Studies in Ophthalmology **2014**, 2014, 1902-10	0.7	36
1	Peripheral optical coherence tomography assisted by scleral depression in retinopathy of prematurity		1