

Michael Goldbaum

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

8,990
citations

257101

24
h-index

288905

40
g-index

51
all docs

51
docs citations

51
times ranked

8248
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying Medical Diagnoses and Treatable Diseases by Image-Based Deep Learning. Cell, 2018, 172, 1122-1131.e9.	13.5	2,822
2	Locating blood vessels in retinal images by piecewise threshold probing of a matched filter response. IEEE Transactions on Medical Imaging, 2000, 19, 203-210.	5.4	1,861
3	Detection of blood vessels in retinal images using two-dimensional matched filters. IEEE Transactions on Medical Imaging, 1989, 8, 263-269.	5.4	1,374
4	Locating the optic nerve in a retinal image using the fuzzy convergence of the blood vessels. IEEE Transactions on Medical Imaging, 2003, 22, 951-958.	5.4	620
5	Evaluation and accurate diagnoses of pediatric diseases using artificial intelligence. Nature Medicine, 2019, 25, 433-438.	15.2	386
6	Measurement and classification of retinal vascular tortuosity. International Journal of Medical Informatics, 1999, 53, 239-252.	1.6	266
7	Comparison of machine learning and traditional classifiers in glaucoma diagnosis. IEEE Transactions on Biomedical Engineering, 2002, 49, 963-974.	2.5	173
8	Deep Learning Approaches Predict Glaucomatous Visual Field Damage from OCT Optic Nerve Head En Face Images and Retinal Nerve Fiber Layer Thickness Maps. Ophthalmology, 2020, 127, 346-356.	2.5	106
9	Heidelberg Retina Tomograph Measurements of the Optic Disc and Parapapillary Retina for Detecting Glaucoma Analyzed by Machine Learning Classifiers. , 2004, 45, 3144.		91
10	Macular and perimacular vascular remodelling sickling haemoglobinopathies.. British Journal of Ophthalmology, 1976, 60, 431-453.	2.1	75
11	Optic Neuropathy Associated With Cryptococcal Arachnoiditis in AIDS Patients. American Journal of Ophthalmology, 1989, 107, 523-527.	1.7	75
12	Relevance Vector Machine and Support Vector Machine Classifier Analysis of Scanning Laser Polarimetry Retinal Nerve Fiber Layer Measurements. , 2005, 46, 1322.		75
13	Assessing Susceptibility to Age-Related Macular Degeneration With Genetic Markers and Environmental Factors. JAMA Ophthalmology, 2011, 129, 344.	2.6	75
14	Bayesian Machine Learning Classifiers for Combining Structural and Functional Measurements to Classify Healthy and Glaucomatous Eyes. , 2008, 49, 945.		66
15	Confocal Scanning Laser Ophthalmoscopy Classifiers and Stereophotograph Evaluation for Prediction of Visual Field Abnormalities in Glaucoma-Suspect Eyes. , 2004, 45, 2255.		61
16	Unsupervised Machine Learning with Independent Component Analysis to Identify Areas of Progression in Glaucomatous Visual Fields. , 2005, 46, 3684.		55
17	Retinal Depression Sign Indicating a Small Retinal Infarct. American Journal of Ophthalmology, 1978, 86, 45-55.	1.7	53
18	Learning From Data: Recognizing Glaucomatous Defect Patterns and Detecting Progression From Visual Field Measurements. IEEE Transactions on Biomedical Engineering, 2014, 61, 2112-2124.	2.5	53

#	ARTICLE	IF	CITATIONS
19	Peripheral proliferative retinopathies. Survey of Ophthalmology, 1980, 25, 1-14.	1.7	46
20	Predicting Glaucoma before Onset Using Deep Learning. Ophthalmology Glaucoma, 2020, 3, 262-268.	0.9	45
21	Using Unsupervised Learning with Independent Component Analysis to Identify Patterns of Glaucomatous Visual Field Defects. , 2005, 46, 3676.		41
22	Using Unsupervised Learning with Variational Bayesian Mixture of Factor Analysis to Identify Patterns of Glaucomatous Visual Field Defects. , 2004, 45, 2596.		40
23	Evolution of the retinal black sunburst in sickling haemoglobinopathies.. British Journal of Ophthalmology, 1975, 59, 710-716.	2.1	38
24	Ophthalmic manifestations of tuberous sclerosis: a review. Clinical and Experimental Ophthalmology, 2017, 45, 81-86.	1.3	38
25	Geometric Analysis of Radial Buckling. American Journal of Ophthalmology, 1975, 79, 958-965.	1.7	37
26	Peripheral proliferative retinopathies: An update on angiogenesis, etiologies and management. Survey of Ophthalmology, 1994, 38, 519-540.	1.7	36
27	Glaucomatous Patterns in Frequency Doubling Technology (FDT) Perimetry Data Identified by Unsupervised Machine Learning Classifiers. PLoS ONE, 2014, 9, e85941.	1.1	36
28	Common Variant in VEGFA and Response to Anti-VEGF Therapy for Neovascular Age-Related Macular Degeneration. Current Molecular Medicine, 2013, 13, 929-934.	0.6	36
29	Foveal hypoplasia demonstrated in vivo with optical coherence tomography. American Journal of Ophthalmology, 2003, 135, 112-114.	1.7	34
30	Machine Learning Classifiers in Glaucoma. Optometry and Vision Science, 2008, 85, 396-405.	0.6	27
31	A new perspective on Bruch's membrane and the retinal pigment epithelium.. British Journal of Ophthalmology, 1982, 66, 17-25.	2.1	26
32	Combining Functional and Structural Tests Improves the Diagnostic Accuracy of Relevance Vector Machine Classifiers. Journal of Glaucoma, 2010, 19, 167-175.	0.8	24
33	Cryotherapy of proliferative sickle retinopathy, II: triple freeze-thaw cycle.. British Journal of Ophthalmology, 1979, 63, 97-101.	2.1	23
34	A Bayesian network based sequential inference for diagnosis of diseases from retinal images. Pattern Recognition Letters, 2005, 26, 459-470.	2.6	20
35	Comparison of conventional color fundus photography and multicolor imaging in choroidal or retinal lesions. Graefe's Archive for Clinical and Experimental Ophthalmology, 2018, 256, 643-649.	1.0	20
36	Comparison of 4 mg versus 20 mg intravitreal triamcinolone acetone injections. British Journal of Ophthalmology, 2008, 92, 810-813.	2.1	18

#	ARTICLE	IF	CITATIONS
37	DYNAMICS OF THE MACULAR HOLE-SILICONE OIL TAMPONADE INTERFACE WITH PATIENT POSITIONING AS IMAGED BY SPECTRAL DOMAIN-OPTICAL COHERENCE TOMOGRAPHY. <i>Retina</i> , 2010, 30, 924-929.	1.0	16
38	Association of LIPC and advanced age-related macular degeneration. <i>Eye</i> , 2013, 27, 265-271.	1.1	16
39	Useful adjuncts for vitreoretinal surgery.. <i>British Journal of Ophthalmology</i> , 1989, 73, 435-439.	2.1	15
40	Assessing Visual Field Clustering Schemes Using Machine Learning Classifiers in Standard Perimetry. , 2007, 48, 5582.		14
41	Pattern recognition can detect subtle field defects in eyes of HIV individuals without retinitis under HAART. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2011, 249, 491-498.	1.0	11
42	Microangiographic Changes in the Traumatized Brain. <i>Acta Radiologica: Diagnosis</i> , 1966, 5, 341-351.	0.4	10
43	Magnetic Resonance Imaging in the Evaluation of Vitreoretinal Disease in Eyes with Intraocular Silicone Oil. <i>American Journal of Ophthalmology</i> , 1990, 110, 366-370.	1.7	10
44	GNAQ and PMS1 Mutations Associated with Uveal Melanoma, Ocular Surface Melanosis, and Nevus of Ota. <i>Ocular Oncology and Pathology</i> , 2019, 5, 267-272.	0.5	8
45	BILATERAL ENDOGENOUS ESCHERICHIA COLI ENDOPHTHALMITIS IN A NEONATE WITH MENINGITIS. <i>Retina</i> , 1996, 16, 341-342.	1.0	7
46	A modified COMS plaque for iris melanoma. <i>Journal of Contemporary Brachytherapy</i> , 2011, 3, 131-133.	0.4	7
47	Optic nerve head problem. <i>Survey of Ophthalmology</i> , 2019, 64, 579-583.	1.7	2
48	Late intraocular pressure rise after repeat intravitreal triamcinolone acetonide injections. <i>Seminars in Ophthalmology</i> , 2004, 19, 119-121.	0.8	1
49	Visual phenomena perceived during pars plana vitrectomy under peribulbar block and monitored anaesthesia care. <i>British Journal of Ophthalmology</i> , 2016, 100, 777-781.	2.1	1
50	The fishmouth phenomenon in retinal detachment.. <i>British Journal of Ophthalmology</i> , 1980, 64, 383-384.	2.1	0