

Michael V Boland

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.

111
papers

2,193
citations

25
h-index

44
g-index

129
ext. papers

2,819
ext. citations

4.4
avg, IF

5.14
L-index

#	Paper	IF	Citations
111	Choroidal thickness measured by spectral domain optical coherence tomography: factors affecting thickness in glaucoma patients. <i>Ophthalmology</i> , 2011 , 118, 1571-9	7.3	206
110	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images. <i>Cytometry</i> , 1998 , 33, 366-375		185
109	Comparative effectiveness of treatments for open-angle glaucoma: a systematic review for the U.S. Preventive Services Task Force. <i>Annals of Internal Medicine</i> , 2013 , 158, 271-9	8	152
108	Risk factors and open-angle glaucoma: classification and application. <i>Journal of Glaucoma</i> , 2007 , 16, 406-18	11.8	152
107	Special requirements for electronic health record systems in ophthalmology. <i>Ophthalmology</i> , 2011 , 118, 1681-7	7.3	78
106	Prevalence of Glaucoma in the United States: The 2005-2008 National Health and Nutrition Examination Survey 2016 , 57, 2905-2913		73
105	Adoption of electronic health records and preparations for demonstrating meaningful use: an American Academy of Ophthalmology survey. <i>Ophthalmology</i> , 2013 , 120, 1702-10	7.3	62
104	Adoption and perceptions of electronic health record systems by ophthalmologists: an American Academy of Ophthalmology survey. <i>Ophthalmology</i> , 2008 , 115, 1591-7; quiz 1597.e1-5	7.3	61
103	Optic disc morphology in open-angle glaucoma compared with anterior ischemic optic neuropathies 2010 , 51, 2003-10		58
102	Evidence-based Criteria for Assessment of Visual Field Reliability. <i>Ophthalmology</i> , 2017 , 124, 1612-1620	7.3	54
101	Automated telecommunication-based reminders and adherence with once-daily glaucoma medication dosing: the automated dosing reminder study. <i>JAMA Ophthalmology</i> , 2014 , 132, 845-50	3.9	53
100	The relationship between better-eye and integrated visual field mean deviation and visual disability. <i>Ophthalmology</i> , 2013 , 120, 2476-2484	7.3	48
99	An Artificial Intelligence Approach to Detect Visual Field Progression in Glaucoma Based on Spatial Pattern Analysis 2019 , 60, 365-375		43
98	Artificial intelligence in glaucoma. <i>Current Opinion in Ophthalmology</i> , 2019 , 30, 97-103	5.1	43
97	Electronic monitoring to assess adherence with once-daily glaucoma medications and risk factors for nonadherence: the automated dosing reminder study. <i>JAMA Ophthalmology</i> , 2014 , 132, 838-44	3.9	43
96	Visual Defects in Patients With Pituitary Adenomas: The Myth of Bitemporal Hemianopsia. <i>American Journal of Roentgenology</i> , 2015 , 205, W512-8	5.4	41
95	Diabetes, Triglyceride Levels, and Other Risk Factors for Glaucoma in the National Health and Nutrition Examination Survey 2005-2008 2016 , 57, 2152-7		40

94	Object type recognition for automated analysis of protein subcellular location. <i>IEEE Transactions on Image Processing</i> , 2005 , 14, 1351-9	8.7	37
93	Comparison of optic nerve head topography and visual field in eyes with open-angle and angle-closure glaucoma. <i>Ophthalmology</i> , 2008 , 115, 239-245.e2	7.3	36
92	Accuracy of pupil assessment for the detection of glaucoma: a systematic review and meta-analysis. <i>Ophthalmology</i> , 2013 , 120, 2217-25	7.3	34
91	The impact of an electronic health record transition on a glaucoma subspecialty practice. <i>Ophthalmology</i> , 2013 , 120, 753-60	7.3	33
90	Development and validation of a predictive model for nonadherence with once-daily glaucoma medications. <i>Ophthalmology</i> , 2013 , 120, 1396-402	7.3	32
89	Symmetry of the pupillary light reflex and its relationship to retinal nerve fiber layer thickness and visual field defect 2013 , 54, 5596-601		32
88	Reversal of Glaucoma Hemifield Test Results and Visual Field Features in Glaucoma. <i>Ophthalmology</i> , 2018 , 125, 352-360	7.3	27
87	Adoption of Electronic Health Records and Perceptions of Financial and Clinical Outcomes Among Ophthalmologists in the United States. <i>JAMA Ophthalmology</i> , 2018 , 136, 164-170	3.9	27
86	Toward objective selection of representative microscope images. <i>Biophysical Journal</i> , 1999 , 76, 2230-7	2.9	25
85	Greater Physical Activity Is Associated with Slower Visual Field Loss in Glaucoma. <i>Ophthalmology</i> , 2019 , 126, 958-964	7.3	24
84	Evaluation of Frequency-Doubling Technology Perimetry as a Means of Screening for Glaucoma and Other Eye Diseases Using the National Health and Nutrition Examination Survey. <i>JAMA Ophthalmology</i> , 2016 , 134, 57-62	3.9	22
83	The Evolving Role of the Relationship between Optic Nerve Structure and Function in Glaucoma. <i>Ophthalmology</i> , 2017 , 124, S66-S70	7.3	22
82	Agreement and Predictors of Discordance of 6 Visual Field Progression Algorithms. <i>Ophthalmology</i> , 2019 , 126, 822-828	7.3	21
81	Incorporating a virtual curriculum into ophthalmology education in the coronavirus disease-2019 era. <i>Current Opinion in Ophthalmology</i> , 2020 , 31, 380-385	5.1	21
80	Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma 2016 , 57, 2797-804		21
79	Development and validation of an associative model for the detection of glaucoma using pupillography. <i>American Journal of Ophthalmology</i> , 2013 , 156, 1285-1296.e2	4.9	20
78	Automated analysis of patterns in fluorescence-microscope images. <i>Trends in Cell Biology</i> , 1999 , 9, 201-218.3		19
77	Cup-to-Disc Ratio Asymmetry in U.S. Adults: Prevalence and Association with Glaucoma in the 2005-2008 National Health and Nutrition Examination Survey. <i>Ophthalmology</i> , 2017 , 124, 1229-1236	7.3	17

76	Effect of patient's life expectancy on the cost-effectiveness of treatment for ocular hypertension. <i>JAMA Ophthalmology</i> , 2010 , 128, 613-8		16
75	Characterization of Central Visual Field Loss in End-stage Glaucoma by Unsupervised Artificial Intelligence. <i>JAMA Ophthalmology</i> , 2020 , 138, 190-198	3.9	16
74	The impact of risk calculation on treatment recommendations made by glaucoma specialists in cases of ocular hypertension. <i>Journal of Glaucoma</i> , 2008 , 17, 631-8	2.1	14
73	Evaluation of a combined index of optic nerve structure and function for glaucoma diagnosis. <i>BMC Ophthalmology</i> , 2011 , 11, 6	2.3	13
72	A new method for determining physician decision thresholds using empiric, uncertain recommendations. <i>BMC Medical Informatics and Decision Making</i> , 2010 , 10, 20	3.6	13
71	Artificial Intelligence Classification of Central Visual Field Patterns in Glaucoma. <i>Ophthalmology</i> , 2020 , 127, 731-738	7.3	13
70	Integration of a Physician Assistant Into an Ophthalmology Consult Service in an Academic Setting. <i>American Journal of Ophthalmology</i> , 2018 , 190, 125-133	4.9	11
69	Electronic Tracking of Patients in an Outpatient Ophthalmology Clinic to Improve Efficient Flow: A Feasibility Analysis and Benchmarking Study. <i>Quality Management in Health Care</i> , 2015 , 24, 190-9	1	11
68	Association Between Sleep Parameters and Glaucoma in the United States Population: National Health and Nutrition Examination Survey. <i>Journal of Glaucoma</i> , 2019 , 28, 97-104	2.1	10
67	Cost and Visit Duration of Same-Day Access at an Academic Ophthalmology Department vs Emergency Department. <i>JAMA Ophthalmology</i> , 2019 , 137, 729-735	3.9	10
66	A comparison of commercial and custom-made electronic tracking systems to measure patient flow through an ambulatory clinic. <i>International Journal of Health Geographics</i> , 2015 , 14, 32	3.5	9
65	Evaluation of an algorithm for detecting visual field defects due to chiasmal and postchiasmal lesions: the neurological hemifield test 2011 , 52, 7959-65		8
64	Defining glaucomatous optic neuropathy using objective criteria from structural and functional testing. <i>British Journal of Ophthalmology</i> , 2021 , 105, 789-793	5.5	8
63	Monitoring Glaucomatous Functional Loss Using an Artificial Intelligence-Enabled Dashboard. <i>Ophthalmology</i> , 2020 , 127, 1170-1178	7.3	7
62	Impact of Natural Blind Spot Location on Perimetry. <i>Scientific Reports</i> , 2017 , 7, 6143	4.9	7
61	Survey of Ehlers-Danlos Patients' Ophthalmic surgery experiences. <i>Molecular Genetics & Genomic Medicine</i> , 2020 , 8, e1155	2.3	6
60	Impact of digital imaging and communications in medicine workflow on the integration of patient demographics and ophthalmic test data. <i>Ophthalmology</i> , 2015 , 122, 227-32	7.3	6
59	Baseline Age and Mean Deviation Affect the Rate of Glaucomatous Vision Loss. <i>Journal of Glaucoma</i> , 2020 , 29, 31-38	2.1	6

58	Quantitative Analysis of the Displacement of the Anterior Visual Pathway by Pituitary Lesions and the Associated Visual Field Loss 2016 , 57, 3576-80		6
57	Association of an Electronic Health Record-Linked Glaucoma Medical Reminder With Patient Satisfaction. <i>JAMA Ophthalmology</i> , 2019 , 137, 240-245	3.9	6
56	Resident and program characteristics that impact performance on the Ophthalmic Knowledge Assessment Program (OKAP). <i>BMC Medical Education</i> , 2019 , 19, 190	3.3	5
55	The impact of physician subspecialty training, risk calculation, and patient age on treatment recommendations in ocular hypertension. <i>American Journal of Ophthalmology</i> , 2011 , 152, 638-645.e1	4.9	5
54	Assessing Glaucoma Progression Using Machine Learning Trained on Longitudinal Visual Field and Clinical Data. <i>Ophthalmology</i> , 2021 , 128, 1016-1026	7.3	5
53	National survey and outcomes of resident-performed cataract surgery in monocular patients in the United States. <i>Journal of Cataract and Refractive Surgery</i> , 2019 , 45, 939-945	2.3	4
52	Factors Predicting a Greater Likelihood of Poor Visual Field Reliability in Glaucoma Patients and Suspects. <i>Translational Vision Science and Technology</i> , 2020 , 9, 4	3.3	4
51	Low Vision Care - Out of Site. Out of Mind. <i>Ophthalmic Epidemiology</i> , 2020 , 27, 252-258	1.9	4
50	Development and validation of an improved neurological hemifield test to identify chiasmal and postchiasmal lesions by automated perimetry 2014 , 55, 1017-23		4
49	Deficiencies in Ophthalmology Residents Case Logging of Glaucoma Surgery. <i>Ophthalmology Glaucoma</i> , 2020 , 3, 218-220	2.2	4
48	Predicting eyes at risk for rapid glaucoma progression based on an initial visual field test using machine learning. <i>PLoS ONE</i> , 2021 , 16, e0249856	3.7	4
47	Management of Tube-Related Hypotony Using Ab Interno Placement of Multifilament Nylon Suture to Reduce Flow. <i>Ophthalmology Glaucoma</i> , 2019 , 2, 275-276	2.2	4
46	Enabling a learning healthcare system with automated computer protocols that produce replicable and personalized clinician actions. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021 , 28, 1330-1344	8.6	4
45	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images 1998 , 33, 366		4
44	Supervision and autonomy of ophthalmology residents in the outpatient clinic in the United States II: a survey of senior residents. <i>BMC Medical Education</i> , 2019 , 19, 202	3.3	3
43	Association of Electronic Health Record Use Above Meaningful Use Thresholds With Hospital Quality and Safety Outcomes. <i>JAMA Network Open</i> , 2020 , 3, e2012529	10.4	3
42	External neurolysis may result in early return of function in some muscle groups following brachial plexus surgery. <i>Clinical Neurology and Neurosurgery</i> , 2012 , 114, 768-75	2	3
41	Factors Influencing Postgraduate Career Decisions of Ophthalmology Residents. <i>Journal of Academic Ophthalmology (2017)</i> , 2020 , 12, e124-e133	0.7	3

40	Developing an Ophthalmology Clinical Decision Support System to Identify Patients for Low Vision Rehabilitation. <i>Translational Vision Science and Technology</i> , 2021 , 10, 24	3.3	3
39	The Relationship Between Quantitative Pupillometry and Estimated Ganglion Cell Counts in Patients With Glaucoma. <i>Journal of Glaucoma</i> , 2019 , 28, 238-242	2.1	3
38	Changes in Performance of Glaucoma Surgeries 1994 through 2017 Based on Claims and Payment Data for United States Medicare Beneficiaries. <i>Ophthalmology Glaucoma</i> , 2021 , 4, 463-471	2.2	3
37	The Effect of Transitioning from SITA Standard to SITA Faster on Visual Field Performance. <i>Ophthalmology</i> , 2021 , 128, 1417-1425	7.3	3
36	A Pilot Study on the Effects of Physician Gaze on Patient Satisfaction in the Setting of Electronic Health Records. <i>Journal of Academic Ophthalmology (2017)</i> , 2019 , 11, e24-e29	0.7	2
35	Ability of Ophthalmology Residents to Self-Assess Their Performance Through Established Milestones. <i>Journal of Surgical Education</i> , 2019 , 76, 1076-1087	3.4	2
34	Comparison of Clinical Outcomes with Open Versus Closed Conjunctiva Implantation of the XEN45 Gel Stent. <i>Ophthalmology Glaucoma</i> , 2021 , 4, 343-349	2.2	2
33	Calculating the "threshold to treat" in ocular hypertension. <i>Journal of Glaucoma</i> , 2014 , 23, 485-6	2.1	2
32	Leveraging Electronic Health Records to Identify and Characterize Patients with Low Vision. <i>Ophthalmic Epidemiology</i> , 2019 , 26, 132-139	1.9	2
31	Medicare Incentive Payments to United States Ophthalmologists for Use of Electronic Health Records: 2011-2016. <i>Ophthalmology</i> , 2019 , 126, 928-934	7.3	1
30	Predicting Global Test-Retest Variability of Visual Fields in Glaucoma. <i>Ophthalmology Glaucoma</i> , 2021 , 4, 390-399	2.2	1
29	Unplanned Return to the Operating Room After Trabeculectomy. <i>American Journal of Ophthalmology</i> , 2020 , 219, 132-140	4.9	1
28	Use of Teleophthalmology for Evaluation of Ophthalmic Emergencies by Ophthalmology Residents in the Emergency Department. <i>Telemedicine Journal and E-Health</i> , 2021 ,	5.9	1
27	Real-world Outcomes among Eyes with Center-Involving Diabetic Macular Edema and Good Visual Acuity. <i>Current Eye Research</i> , 2020 , 45, 879-887	2.9	1
26	Variability and Power to Detect Progression of Different Visual Field Patterns. <i>Ophthalmology Glaucoma</i> , 2021 , 4, 617-623	2.2	1
25	Microinvasive Glaucoma Surgery in US Ophthalmology Residency: Surgical Case Log Cross-sectional Analysis and Proposal for New Glaucoma Procedure Classification. <i>Journal of Glaucoma</i> , 2021 , 30, 621-628 ^{2,1}	2.1	1
24	The Effect of Ametropia on Glaucomatous Visual Field Loss. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	1
23	Development and Comparison of Machine Learning Algorithms to Determine Visual Field Progression. <i>Translational Vision Science and Technology</i> , 2021 , 10, 27	3.3	1

22	The Association Between Intraocular Pressure and Visual Field Worsening in Treated Glaucoma Patients. <i>Journal of Glaucoma</i> , 2021 , 30, 759-768	2.1	1
21	Author Response: Comments on Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma 2016 , 57, 5272		1
20	Estimating the Severity of Visual Field Damage From Retinal Nerve Fiber Layer Thickness Measurements With Artificial Intelligence. <i>Translational Vision Science and Technology</i> , 2021 , 10, 16	3.3	1
19	Telemedicine utilization by pediatric ophthalmologists during the COVID-19 pandemic. <i>Journal of AAPOS</i> , 2021 , 25, 293-295.e1	1.3	1
18	Evidence-Based Criteria for Determining Peripapillary OCT Reliability. <i>Ophthalmology</i> , 2020 , 127, 167-176.3	6.3	0
17	Assessing Functional Disability in Glaucoma: The Relative Importance of Central Versus Far Peripheral Visual Fields 2020 , 61, 23		0
16	Inter-Eye Association of Visual Field Defects in Glaucoma and Its Clinical Utility. <i>Translational Vision Science and Technology</i> , 2020 , 9, 22	3.3	0
15	Surgical Outcomes and Quality Assessment of Trabeculectomy: Leveraging Electronic Health Records for Clinical Data Visualization. <i>Journal of Glaucoma</i> , 2019 , 28, 1023-1028	2.1	0
14	Unplanned Return to the Operating Room After Tube Shunt Surgery. <i>American Journal of Ophthalmology</i> , 2021 , 229, 242-252	4.9	0
13	How Much Time Should We Be Spending With Electronic Health Records?. <i>JAMA Ophthalmology</i> , 2017 , 135, 1257-1258	3.9	
12	Reply. <i>Ophthalmology</i> , 2019 , 126, e78-e79	7.3	
11	Association of Surgical Setting and Deployment of a New Electronic Health Record With Ophthalmic Operative Times. <i>JAMA Ophthalmology</i> , 2019 , 137, 969-974	3.9	
10	Reply. <i>Ophthalmology</i> , 2019 , 126, e48-e49	7.3	
9	Use of Multiple Tests Improves Screening for Glaucoma-Reply. <i>JAMA Ophthalmology</i> , 2016 , 134, 948	3.9	
8	Reply. <i>Ophthalmology</i> , 2018 , 125, e66-e67	7.3	
7	Author Response: Neurological Hemifield Test in Binasal Defects 2015 , 56, 2570		
6	Author Response: Linear Relation between Structure and Function 2010 , 51, 6891		
5	Pattern Analysis Meets Cell Biology. <i>Microscopy and Microanalysis</i> , 1999 , 5, 510-511	0.5	

4	Ophthalmology Applicant Perceptions of Two Residency Application Services: The San Francisco Match Central Application Service and Electronic Residency Application Service. <i>Journal of Academic Ophthalmology (2017)</i> , 2020 , 12, e188-e194	0.7
3	Factors Predicting a Greater Likelihood of Poor Visual Field Reliability in Glaucoma Patients and Suspects. <i>Translational Vision Science and Technology</i> , 2020 , 210, 1619	3.3
2	Teaching Ethics and Professionalism: A National Survey of Ophthalmology Residency Program Directors. <i>Journal of Academic Ophthalmology (2017)</i> , 2021 , 13, e88-e94	0.7
1	Improving Visual Field Forecasting by Correcting for the Effects of Poor Visual Field Reliability. <i>Translational Vision Science and Technology</i> , 2022 , 11, 27	3.3