Michael V Boland

List of Publications by Year in Descending Order

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	Improving Visual Field Forecasting by Correcting for the Effects of Poor Visual Field Reliability. *Translational Vision Science and Technology*, **2022**, 11, 27	3.3	
110	Predicting Global Test-Retest Variability of Visual Fields in Glaucoma. *Ophthalmology Glaucoma*, **2021**, 4, 390-399	2.2	1
109	Comparison of Clinical Outcomes with Open Versus Closed Conjunctiva Implantation of the XEN45 Gel Stent. *Ophthalmology Glaucoma*, **2021**, 4, 343-349	2.2	2
108	Use of Teleophthalmology for Evaluation of Ophthalmic Emergencies by Ophthalmology Residents in the Emergency Department. *Telemedicine Journal and E-Health*, **2021**,	5.9	1
107	Developing an Ophthalmology Clinical Decision Support System to Identify Patients for Low Vision Rehabilitation. *Translational Vision Science and Technology*, **2021**, 10, 24	3.3	3
106	Predicting eyes at risk for rapid glaucoma progression based on an initial visual field test using machine learning. *PLoS ONE*, **2021**, 16, e0249856	3.7	4
105	Variability and Power to Detect Progression of Different Visual Field Patterns. *Ophthalmology Glaucoma*, **2021**, 4, 617-623	2.2	1
104	Microinvasive Glaucoma Surgery in US Ophthalmology Residency: Surgical Case Log Cross-sectional Analysis and Proposal for New Glaucoma Procedure Classification. *Journal of Glaucoma*, **2021**, 30, 621-628	2.1	1
103	The Effect of Ametropia on Glaucomatous Visual Field Loss. *Journal of Clinical Medicine*, **2021**, 10,	5.1	1
102	Development and Comparison of Machine Learning Algorithms to Determine Visual Field Progression. *Translational Vision Science and Technology*, **2021**, 10, 27	3.3	1
101	The Association Between Intraocular Pressure and Visual Field Worsening in Treated Glaucoma Patients. *Journal of Glaucoma*, **2021**, 30, 759-768	2.1	1
100	Assessing Glaucoma Progression Using Machine Learning Trained on Longitudinal Visual Field and Clinical Data. *Ophthalmology*, **2021**, 128, 1016-1026	7.3	5
99	Defining glaucomatous optic neuropathy using objective criteria from structural and functional testing. *British Journal of Ophthalmology*, **2021**, 105, 789-793	5.5	8
98	Enabling a learning healthcare system with automated computer protocols that produce replicable and personalized clinician actions. *Journal of the American Medical Informatics Association: JAMIA*, **2021**, 28, 1330-1344	8.6	4
97	Estimating the Severity of Visual Field Damage From Retinal Nerve Fiber Layer Thickness Measurements With Artificial Intelligence. *Translational Vision Science and Technology*, **2021**, 10, 16	3.3	1
96	Unplanned Return to the Operating Room After Tube Shunt Surgery. *American Journal of Ophthalmology*, **2021**, 229, 242-252	4.9	0
95	Changes in Performance of Glaucoma Surgeries 1994 through 2017 Based on Claims and Payment Data for United States Medicare Beneficiaries. *Ophthalmology Glaucoma*, **2021**, 4, 463-471	2.2	3

94	Telemedicine utilization by pediatric ophthalmologists during the COVID-19 pandemic. *Journal of AAPOS*, **2021**, 25, 293-295.e1	1.3	1
93	The Effect of Transitioning from SITA Standard to SITA Faster on Visual Field Performance. *Ophthalmology*, **2021**, 128, 1417-1425	7.3	3
92	Teaching Ethics and Professionalism: A National Survey of Ophthalmology Residency Program Directors. *Journal of Academic Ophthalmology (2017)*, **2021**, 13, e88-e94	0.7	
91	Association of Electronic Health Record Use Above Meaningful Use Thresholds With Hospital Quality and Safety Outcomes. *JAMA Network Open*, **2020**, 3, e2012529	10.4	3
90	Unplanned Return to the Operating Room After Trabeculectomy. *American Journal of Ophthalmology*, **2020**, 219, 132-140	4.9	1
89	Factors Predicting a Greater Likelihood of Poor Visual Field Reliability in Glaucoma Patients and Suspects. *Translational Vision Science and Technology*, **2020**, 9, 4	3.3	4
88	Monitoring Glaucomatous Functional Loss Using an Artificial Intelligence-Enabled Dashboard. *Ophthalmology*, **2020**, 127, 1170-1178	7.3	7
87	Low Vision Care - Out of Site. Out of Mind. *Ophthalmic Epidemiology*, **2020**, 27, 252-258	1.9	4
86	Survey of Ehlers-Danlos PatientsSophthalmic surgery experiences. *Molecular Genetics & Genomic Medicine*, **2020**, 8, e1155	2.3	6
85	Ophthalmology Applicant Perceptions of Two Residency Application Services: The San Francisco Match Central Application Service and Electronic Residency Application Service. *Journal of Academic Ophthalmology (2017)*, **2020**, 12, e188-e194	0.7	
84	Factors Predicting a Greater Likelihood of Poor Visual Field Reliability in Glaucoma Patients and Suspects. *Translational Vision Science and Technology*, **2020**, 210, 1619	3.3	
83	Deficiencies in Ophthalmology ResidentsSCase Logging of Glaucoma Surgery. *Ophthalmology Glaucoma*, **2020**, 3, 218-220	2.2	4
82	Evidence-Based Criteria for Determining Peripapillary OCT Reliability. *Ophthalmology*, **2020**, 127, 167-176	7.3	0
81	Characterization of Central Visual Field Loss in End-stage Glaucoma by Unsupervised Artificial Intelligence. *JAMA Ophthalmology*, **2020**, 138, 190-198	3.9	16
80	Artificial Intelligence Classification of Central Visual Field Patterns in Glaucoma. *Ophthalmology*, **2020**, 127, 731-738	7.3	13
79	Real-world Outcomes among Eyes with Center-Involving Diabetic Macular Edema and Good Visual Acuity. *Current Eye Research*, **2020**, 45, 879-887	2.9	1
78	Baseline Age and Mean Deviation Affect the Rate of Glaucomatous Vision Loss. *Journal of Glaucoma*, **2020**, 29, 31-38	2.1	6
77	Assessing Functional Disability in Glaucoma: The Relative Importance of Central Versus Far Peripheral Visual Fields **2020**, 61, 23		0

76	Inter-Eye Association of Visual Field Defects in Glaucoma and Its Clinical Utility. *Translational Vision Science and Technology*, **2020**, 9, 22	3.3	0
75	Incorporating a virtual curriculum into ophthalmology education in the coronavirus disease-2019 era. *Current Opinion in Ophthalmology*, **2020**, 31, 380-385	5.1	21
74	Factors Influencing Postgraduate Career Decisions of Ophthalmology Residents. *Journal of Academic Ophthalmology (2017)*, **2020**, 12, e124-e133	0.7	3
73	A Pilot Study on the Effects of Physician Gaze on Patient Satisfaction in the Setting of Electronic Health Records. *Journal of Academic Ophthalmology (2017)*, **2019**, 11, e24-e29	0.7	2
72	Reply. *Ophthalmology*, **2019**, 126, e78-e79	7.3	
71	An Artificial Intelligence Approach to Detect Visual Field Progression in Glaucoma Based on Spatial Pattern Analysis **2019**, 60, 365-375		43
70	Association Between Sleep Parameters and Glaucoma in the United States Population: National Health and Nutrition Examination Survey. *Journal of Glaucoma*, **2019**, 28, 97-104	2.1	10
69	Association of Surgical Setting and Deployment of a New Electronic Health Record With Ophthalmic Operative Times. *JAMA Ophthalmology*, **2019**, 137, 969-974	3.9	
68	Reply. *Ophthalmology*, **2019**, 126, e48-e49	7.3	
67	Resident and program characteristics that impact performance on the Ophthalmic Knowledge Assessment Program (OKAP). *BMC Medical Education*, **2019**, 19, 190	3.3	5
66	Supervision and autonomy of ophthalmology residents in the outpatient clinic in the United States II: a survey of senior residents. *BMC Medical Education*, **2019**, 19, 202	3.3	3
65	National survey and outcomes of resident-performed cataract surgery in monocular patients in the United States. *Journal of Cataract and Refractive Surgery*, **2019**, 45, 939-945	2.3	4
64	Cost and Visit Duration of Same-Day Access at an Academic Ophthalmology Department vs Emergency Department. *JAMA Ophthalmology*, **2019**, 137, 729-735	3.9	10
63	Agreement and Predictors of Discordance of 6 Visual Field Progression Algorithms. *Ophthalmology*, **2019**, 126, 822-828	7.3	21
62	Medicare Incentive Payments to United States Ophthalmologists for Use of Electronic Health Records: 2011-2016. *Ophthalmology*, **2019**, 126, 928-934	7.3	1
61	Ability of Ophthalmology Residents to Self-Assess Their Performance Through Established Milestones. *Journal of Surgical Education*, **2019**, 76, 1076-1087	3.4	2
60	Artificial intelligence in glaucoma. *Current Opinion in Ophthalmology*, **2019**, 30, 97-103	5.1	43
59	The Relationship Between Quantitative Pupillometry and Estimated Ganglion Cell Counts in Patients With Glaucoma. *Journal of Glaucoma*, **2019**, 28, 238-242	2.1	3

58	Surgical Outcomes and Quality Assessment of Trabeculectomy: Leveraging Electronic Health Records for Clinical Data Visualization. *Journal of Glaucoma*, **2019**, 28, 1023-1028	2.1	0
57	Management of Tube-Related Hypotony Using Ab Interno Placement of Multifilament Nylon Suture to Reduce Flow. *Ophthalmology Glaucoma*, **2019**, 2, 275-276	2.2	4
56	Greater Physical Activity Is Associated with Slower Visual Field Loss in Glaucoma. *Ophthalmology*, **2019**, 126, 958-964	7.3	24
55	Leveraging Electronic Health Records to Identify and Characterize Patients with Low Vision. *Ophthalmic Epidemiology*, **2019**, 26, 132-139	1.9	2
54	Association of an Electronic Health Record-Linked Glaucoma Medical Reminder With Patient Satisfaction. *JAMA Ophthalmology*, **2019**, 137, 240-245	3.9	6
53	Reversal of Glaucoma Hemifield Test Results and Visual Field Features in Glaucoma. *Ophthalmology* , **2018**, 125, 352-360	7.3	27
52	Adoption of Electronic Health Records and Perceptions of Financial and Clinical Outcomes Among Ophthalmologists in the United States. *JAMA Ophthalmology*, **2018**, 136, 164-170	3.9	27
51	Integration of a Physician Assistant Into an Ophthalmology Consult Service in an Academic Setting. *American Journal of Ophthalmology*, **2018**, 190, 125-133	4.9	11
50	Reply. *Ophthalmology*, **2018**, 125, e66-e67	7.3	
49	Cup-to-Disc Ratio Asymmetry in U.S. Adults: Prevalence and Association with Glaucoma in the 2005-2008 National Health and Nutrition Examination Survey. *Ophthalmology*, **2017**, 124, 1229-1236	7.3	17
48	How Much Time Should We Be Spending With Electronic Health Records?. *JAMA Ophthalmology*, **2017**, 135, 1257-1258	3.9	
47	Impact of Natural Blind Spot Location on Perimetry. *Scientific Reports*, **2017**, 7, 6143	4.9	7
46	The Evolving Role of the Relationship between Optic Nerve Structure and Function in Glaucoma. *Ophthalmology*, **2017**, 124, S66-S70	7.3	22
45	Evidence-based Criteria for Assessment of Visual Field Reliability. *Ophthalmology*, **2017**, 124, 1612-1620	7.3	54
44	Use of Multiple Tests Improves Screening for Glaucoma-Reply. *JAMA Ophthalmology*, **2016**, 134, 948	3.9	
43	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. *JAMA Ophthalmology*, **2016**, 134, 57-62	3.9	22
42	Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma **2016**, 57, 2797-804		21
41	Prevalence of Glaucoma in the United States: The 2005-2008 National Health and Nutrition Examination Survey **2016**, 57, 2905-2913		73

40	Quantitative Analysis of the Displacement of the Anterior Visual Pathway by Pituitary Lesions and the Associated Visual Field Loss **2016**, 57, 3576-80		6
39	Author Response: Comments on Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma **2016**, 57, 5272		1
38	Diabetes, Triglyceride Levels, and Other Risk Factors for Glaucoma in the National Health and Nutrition Examination Survey 2005-2008 **2016**, 57, 2152-7		40
37	A comparison of commercial and custom-made electronic tracking systems to measure patient flow through an ambulatory clinic. *International Journal of Health Geographics*, **2015**, 14, 32	3.5	9
36	Electronic Tracking of Patients in an Outpatient Ophthalmology Clinic to Improve Efficient Flow: A Feasibility Analysis and Benchmarking Study. *Quality Management in Health Care*, **2015**, 24, 190-9	1	11
35	Author Response: Neurological Hemifield Test in Binasal Defects **2015**, 56, 2570		
34	Visual Defects in Patients With Pituitary Adenomas: The Myth of Bitemporal Hemianopsia. *American Journal of Roentgenology*, **2015**, 205, W512-8	5.4	41
33	Impact of digital imaging and communications in medicine workflow on the integration of patient demographics and ophthalmic test data. *Ophthalmology*, **2015**, 122, 227-32	7.3	6
32	Calculating the "threshold to treat" in ocular hypertension. *Journal of Glaucoma*, **2014**, 23, 485-6	2.1	2
31	Electronic monitoring to assess adherence with once-daily glaucoma medications and risk factors for nonadherence: the automated dosing reminder study. *JAMA Ophthalmology*, **2014**, 132, 838-44	3.9	43
30	Automated telecommunication-based reminders and adherence with once-daily glaucoma medication dosing: the automated dosing reminder study. *JAMA Ophthalmology*, **2014**, 132, 845-50	3.9	53
29	Development and validation of an improved neurological hemifield test to identify chiasmal and postchiasmal lesions by automated perimetry **2014**, 55, 1017-23		4
28	Development and validation of a predictive model for nonadherence with once-daily glaucoma medications. *Ophthalmology*, **2013**, 120, 1396-402	7.3	32
27	Accuracy of pupil assessment for the detection of glaucoma: a systematic review and meta-analysis. *Ophthalmology*, **2013**, 120, 2217-25	7.3	34
26	Symmetry of the pupillary light reflex and its relationship to retinal nerve fiber layer thickness and visual field defect **2013**, 54, 5596-601		32
25	The impact of an electronic health record transition on a glaucoma subspecialty practice. *Ophthalmology*, **2013**, 120, 753-60	7.3	33
24	Adoption of electronic health records and preparations for demonstrating meaningful use: an American Academy of Ophthalmology survey. *Ophthalmology*, **2013**, 120, 1702-10	7.3	62
23	Development and validation of an associative model for the detection of glaucoma using pupillography. *American Journal of Ophthalmology*, **2013**, 156, 1285-1296.e2	4.9	20

22	The relationship between better-eye and integrated visual field mean deviation and visual disability. *Ophthalmology*, **2013**, 120, 2476-2484	7.3	48
21	Comparative effectiveness of treatments for open-angle glaucoma: a systematic review for the U.S. Preventive Services Task Force. *Annals of Internal Medicine*, **2013**, 158, 271-9	8	152
20	External neurolysis may result in early return of function in some muscle groups following brachial plexus surgery. *Clinical Neurology and Neurosurgery*, **2012**, 114, 768-75	2	3
19	The impact of physician subspecialty training, risk calculation, and patient age on treatment recommendations in ocular hypertension. *American Journal of Ophthalmology*, **2011**, 152, 638-645.e1	4.9	5
18	Choroidal thickness measured by spectral domain optical coherence tomography: factors affecting thickness in glaucoma patients. *Ophthalmology*, **2011**, 118, 1571-9	7.3	206
17	Special requirements for electronic health record systems in ophthalmology. *Ophthalmology*, **2011**, 118, 1681-7	7.3	78
16	Evaluation of an algorithm for detecting visual field defects due to chiasmal and postchiasmal lesions: the neurological hemifield test **2011**, 52, 7959-65		8
15	Evaluation of a combined index of optic nerve structure and function for glaucoma diagnosis. *BMC Ophthalmology*, **2011**, 11, 6	2.3	13
14	Optic disc morphology in open-angle glaucoma compared with anterior ischemic optic neuropathies **2010**, 51, 2003-10		58
13	Author Response: Linear Relation between Structure and Function **2010**, 51, 6891		
12	Effect of patients' life expectancy on the cost-effectiveness of treatment for ocular hypertension. *JAMA Ophthalmology*, **2010**, 128, 613-8		16
11	A new method for determining physician decision thresholds using empiric, uncertain recommendations. *BMC Medical Informatics and Decision Making*, **2010**, 10, 20	3.6	13
10	Comparison of optic nerve head topography and visual field in eyes with open-angle and angle-closure glaucoma. *Ophthalmology*, **2008**, 115, 239-245.e2	7.3	36
9	Adoption and perceptions of electronic health record systems by ophthalmologists: an American Academy of Ophthalmology survey. *Ophthalmology*, **2008**, 115, 1591-7; quiz 1597.e1-5	7.3	61
8	The impact of risk calculation on treatment recommendations made by glaucoma specialists in cases of ocular hypertension. *Journal of Glaucoma*, **2008**, 17, 631-8	2.1	14
7	Risk factors and open-angle glaucoma: classification and application. *Journal of Glaucoma*, **2007**, 16, 406-18	2.8	152
6	Object type recognition for automated analysis of protein subcellular location. *IEEE Transactions on Image Processing*, **2005**, 14, 1351-9	8.7	37
5	Pattern Analysis Meets Cell Biology. *Microscopy and Microanalysis*, **1999**, 5, 510-511	0.5	

4	Automated analysis of patterns in fluorescence-microscope images. *Trends in Cell Biology*, **1999**, 9, 201-218.3		19
3	Toward objective selection of representative microscope images. *Biophysical Journal*, **1999**, 76, 2230-7	2.9	25
2	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images. *Cytometry*, **1998**, 33, 366-375		185
1	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images **1998**, 33, 366		4