

# Michael V Boland

## List of Publications by Year in descending order

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128  
papers

3,332  
citations

201385

27  
h-index

189595

50  
g-index

129  
all docs

129  
docs citations

129  
times ranked

3204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ophthalmology Surgical Assessment of Tube Shunt Glaucoma Surgery. <i>Ophthalmology Glaucoma</i> , 2023, 6, 100-105.	0.9	3
2	Effectiveness of Trabeculectomy and Tube Shunt with versus without Concurrent Phacoemulsification. <i>Ophthalmology Glaucoma</i> , 2023, 6, 42-53.	0.9	9
3	Corneal Edema and Keratoplasty: Risk Factors in Eyes With Previous Glaucoma Drainage Devices. <i>American Journal of Ophthalmology</i> , 2022, 238, 27-35.	1.7	6
4	A Case for the Use of Artificial Intelligence in Glaucoma Assessment. <i>Ophthalmology Glaucoma</i> , 2022, 5, e3-e13.	0.9	10
5	Sex-Based Differences in Medicare Reimbursements among Ophthalmologists Persist across Time. <i>Ophthalmology</i> , 2022, 129, 1056-1063.	2.5	3
6	Improving Visual Field Forecasting by Correcting for the Effects of Poor Visual Field Reliability. <i>Translational Vision Science and Technology</i> , 2022, 11, 27.	1.1	1
7	Remote Video Monitoring of Simultaneous Visual Field Testing. <i>Journal of Glaucoma</i> , 2022, 31, 488-493.	0.8	0
8	Machine-Identified Patterns of Visual Field Loss and an Association with Rapid Progression in the Ocular Hypertension Treatment Study. <i>Ophthalmology</i> , 2022, 129, 1402-1411.	2.5	11
9	Predicting Global Testâ€“Retest Variability of Visual Fields in Glaucoma. <i>Ophthalmology Glaucoma</i> , 2021, 4, 390-399.	0.9	8
10	Comparison of Clinical Outcomes with Open Versus Closed Conjunctiva Implantation of the XEN45 Gel Stent. <i>Ophthalmology Glaucoma</i> , 2021, 4, 343-349.	0.9	20
11	Defining glaucomatous optic neuropathy using objective criteria from structural and functional testing. <i>British Journal of Ophthalmology</i> , 2021, 105, 789-793.	2.1	26
12	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.	2.2	22
13	Developing an Ophthalmology Clinical Decision Support System to Identify Patients for Low Vision Rehabilitation. <i>Translational Vision Science and Technology</i> , 2021, 10, 24.	1.1	5
14	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.	1.1	22
15	Variability and Power to Detect Progression of Different Visual Field Patterns. <i>Ophthalmology Glaucoma</i> , 2021, 4, 617-623.	0.9	7
16	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.	0.8	9
17	The Effect of Ametropia on Glaucomatous Visual Field Loss. <i>Journal of Clinical Medicine</i> , 2021, 10, 2796.	1.0	3
18	Development and Comparison of Machine Learning Algorithms to Determine Visual Field Progression. <i>Translational Vision Science and Technology</i> , 2021, 10, 27.	1.1	8

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19	The Association Between Intraocular Pressure and Visual Field Worsening in Treated Glaucoma Patients. <i>Journal of Glaucoma</i> , 2021, 30, 759-768.	0.8	6
20	Assessing Glaucoma Progression Using Machine Learning Trained on Longitudinal Visual Field and Clinical Data. <i>Ophthalmology</i> , 2021, 128, 1016-1026.	2.5	43
21	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.	1.1	8
22	Unplanned Return to the Operating Room After Tube Shunt Surgery. <i>American Journal of Ophthalmology</i> , 2021, 229, 242-252.	1.7	1
23	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.	0.9	20
24	Telemedicine utilization by pediatric ophthalmologists during the COVID-19 pandemic. <i>Journal of AAPOS</i> , 2021, 25, 293-295.e1.	0.2	5
25	The Effect of Transitioning from SITA Standard to SITA Faster on Visual Field Performance. <i>Ophthalmology</i> , 2021, 128, 1417-1425.	2.5	15
26	Teaching Ethics and Professionalism: A National Survey of Ophthalmology Residency Program Directors. <i>Journal of Academic Ophthalmology (2017)</i> , 2021, 13, e82-e88.	0.2	0
27	Use of Teleophthalmology for Evaluation of Ophthalmic Emergencies by Ophthalmology Residents in the Emergency Department. <i>Telemedicine Journal and E-Health</i> , 2021, , .	1.6	3
28	American Glaucoma Society Position Paper: Information Sharing Using Established Standards Is Essential to the Future of Glaucoma Care. <i>Ophthalmology Glaucoma</i> , 2021, , .	0.9	1
29	Evidence-Based Criteria for Determining Peripapillary OCT Reliability. <i>Ophthalmology</i> , 2020, 127, 167-176.	2.5	4
30	Characterization of Central Visual Field Loss in End-stage Glaucoma by Unsupervised Artificial Intelligence. <i>JAMA Ophthalmology</i> , 2020, 138, 190.	1.4	36
31	Artificial Intelligence Classification of Central Visual Field Patterns in Glaucoma. <i>Ophthalmology</i> , 2020, 127, 731-738.	2.5	33
32	Real-world Outcomes among Eyes with Center-Involving Diabetic Macular Edema and Good Visual Acuity. <i>Current Eye Research</i> , 2020, 45, 879-887.	0.7	4
33	Baseline Age and Mean Deviation Affect the Rate of Glaucomatous Vision Loss. <i>Journal of Glaucoma</i> , 2020, 29, 31-38.	0.8	11
34	Assessing Functional Disability in Glaucoma: The Relative Importance of Central Versus Far Peripheral Visual Fields. , 2020, 61, 23.		9
35	Inter-Eye Association of Visual Field Defects in Glaucoma and Its Clinical Utility. <i>Translational Vision Science and Technology</i> , 2020, 9, 22.	1.1	5
36	Incorporating a virtual curriculum into ophthalmology education in the coronavirus disease-2019 era. <i>Current Opinion in Ophthalmology</i> , 2020, 31, 380-385.	1.3	43

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37	Factors Influencing Postgraduate Career Decisions of Ophthalmology Residents. <i>Journal of Academic Ophthalmology</i> (2017), 2020, 12, e124-e133.	0.2	7
38	Artificial Intelligence and Glaucoma: Illuminating the Black Box. <i>Ophthalmology Glaucoma</i> , 2020, 3, 311-313.	0.9	6
39	Association of Electronic Health Record Use Above Meaningful Use Thresholds With Hospital Quality and Safety Outcomes. <i>JAMA Network Open</i> , 2020, 3, e2012529.	2.8	7
40	Unplanned Return to the Operating Room After Trabeculectomy. <i>American Journal of Ophthalmology</i> , 2020, 219, 132-140.	1.7	6
41	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.	1.1	6
42	Monitoring Glaucomatous Functional Loss Using an Artificial Intelligence-Enabled Dashboard. <i>Ophthalmology</i> , 2020, 127, 1170-1178.	2.5	20
43	Low Vision Care - Out of Site. <i>Out of Mind. Ophthalmic Epidemiology</i> , 2020, 27, 252-258.	0.8	9
44	Survey of Ehlers-Danlos Patients' ophthalmic surgery experiences. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2020, 8, e1155.	0.6	13
45	Deficiencies in Ophthalmology Residents' Case Logging of Glaucoma Surgery. <i>Ophthalmology Glaucoma</i> , 2020, 3, 218-220.	0.9	9
46	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</i> (2017), 2020, 12, e188-e194.	0.2	0
47	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.	1.1	0
48	Patterns of retinal nerve fiber layer loss in patients with glaucoma identified by deep archetypal analysis. , 2020, , .		1
49	A Pilot Study on the Effects of Physician Gaze on Patient Satisfaction in the Setting of Electronic Health Records. <i>Journal of Academic Ophthalmology</i> (2017), 2019, 11, e24-e29.	0.2	3
50	Reply. <i>Ophthalmology</i> , 2019, 126, e78-e79.	2.5	0
51	An Artificial Intelligence Approach to Detect Visual Field Progression in Glaucoma Based on Spatial Pattern Analysis. , 2019, 60, 365.		78
52	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.	0.8	24
53	Association of Surgical Setting and Deployment of a New Electronic Health Record With Ophthalmic Operative Times. <i>JAMA Ophthalmology</i> , 2019, 137, 969.	1.4	1
54	Reply. <i>Ophthalmology</i> , 2019, 126, e48-e49.	2.5	0

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55	Resident and program characteristics that impact performance on the Ophthalmic Knowledge Assessment Program (OKAP). BMC Medical Education, 2019, 19, 190.	1.0	10
56	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.	1.0	5
57	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.	0.7	8
58	Cost and Visit Duration of Same-Day Access at an Academic Ophthalmology Department vs Emergency Department. JAMA Ophthalmology, 2019, 137, 729.	1.4	21
59	Agreement and Predictors of Discordance of 6 Visual Field Progression Algorithms. Ophthalmology, 2019, 126, 822-828.	2.5	31
60	Medicare Incentive Payments to United States Ophthalmologists for Use of Electronic Health Records. Ophthalmology, 2019, 126, 928-934.	2.5	4
61	Ability of Ophthalmology Residents to Self-Assess Their Performance Through Established Milestones. Journal of Surgical Education, 2019, 76, 1076-1087.	1.2	12
62	Artificial intelligence in glaucoma. Current Opinion in Ophthalmology, 2019, 30, 97-103.	1.3	72
63	The Relationship Between Quantitative Pupillometry and Estimated Ganglion Cell Counts in Patients With Glaucoma. Journal of Glaucoma, 2019, 28, 238-242.	0.8	5
64	Surgical Outcomes and Quality Assessment of Trabeculectomy: Leveraging Electronic Health Records for Clinical Data Visualization. Journal of Glaucoma, 2019, 28, 1023-1028.	0.8	1
65	Management of Tube-Related Hypotony Using Ab Interno Placement of Multifilament Nylon Suture to Reduce Flow. Ophthalmology Glaucoma, 2019, 2, 275-276.	0.9	4
66	Greater Physical Activity Is Associated with Slower Visual Field Loss in Glaucoma. Ophthalmology, 2019, 126, 958-964.	2.5	47
67	Leveraging Electronic Health Records to Identify and Characterize Patients with Low Vision. Ophthalmic Epidemiology, 2019, 26, 132-139.	0.8	4
68	Association of an Electronic Health Recordâ€œLinked Glaucoma Medical Reminder With Patient Satisfaction. JAMA Ophthalmology, 2019, 137, 240.	1.4	10
69	Reversal of Glaucoma Hemifield Test Results and Visual Field Features in Glaucoma. Ophthalmology, 2018, 125, 352-360.	2.5	36
70	Adoption of Electronic Health Records and Perceptions of Financial and Clinical Outcomes Among Ophthalmologists in the United States. JAMA Ophthalmology, 2018, 136, 164.	1.4	44
71	Integration of a Physician Assistant Into an Ophthalmology Consult Service in an Academic Setting. American Journal of Ophthalmology, 2018, 190, 125-133.	1.7	14
72	Glaucoma Monitoring Using Manifold Learning and Unsupervised Clustering. , 2018, , .		4

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73	Reply. Ophthalmology, 2018, 125, e66-e67.	2.5	0
74	Cup-to-Disc Ratio Asymmetry in U.S. Adults. Ophthalmology, 2017, 124, 1229-1236.	2.5	20
75	How Much Time Should We Be Spending With Electronic Health Records?. JAMA Ophthalmology, 2017, 135, 1257.	1.4	0
76	Impact of Natural Blind Spot Location on Perimetry. Scientific Reports, 2017, 7, 6143.	1.6	10
77	The Evolving Role of the Relationship between Optic Nerve Structure and Function in Glaucoma. Ophthalmology, 2017, 124, S66-S70.	2.5	30
78	Evidence-based Criteria for Assessment of Visual Field Reliability. Ophthalmology, 2017, 124, 1612-1620.	2.5	114
79	Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma. , 2016, 57, 2797.		28
80	Prevalence of Glaucoma in the United States: The 2005â€“2008 National Health and Nutrition Examination Survey. , 2016, 57, 2905.		122
81	Quantitative Analysis of the Displacement of the Anterior Visual Pathway by Pituitary Lesions and the Associated Visual Field Loss. , 2016, 57, 3576.		7
82	Author Response: Comments on Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma. , 2016, 57, 5272.		1
83	Diabetes, Triglyceride Levels, and Other Risk Factors for Glaucoma in the National Health and Nutrition Examination Survey 2005â€“2008. , 2016, 57, 2152.		62
84	Use of Multiple Tests Improves Screening for Glaucomaâ€”Reply. JAMA Ophthalmology, 2016, 134, 948.	1.4	0
85	Implementing an electronic learning management system for an Ophthalmology residency program. BMC Medical Education, 2016, 16, 307.	1.0	15
86	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.	1.4	27
87	Big Data, Big Challenges. Ophthalmology, 2016, 123, 7-8.	2.5	10
88	Electronic Health Records and Ophthalmology. JAMA Ophthalmology, 2015, 133, 633.	1.4	2
89	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.	1.2	11
90	Electronic Tracking of Patients in an Outpatient Ophthalmology Clinic to Improve Efficient Flow. Quality Management in Health Care, 2015, 24, 190-199.	0.4	13

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91	Author Response: Neurological Hemifield Test in Binasal Defects. , 2015, 56, 2570.		0
92	Visual Defects in Patients With Pituitary Adenomas: The Myth of Bitemporal Hemianopsia. American Journal of Roentgenology, 2015, 205, W512-W518.	1.0	56
93	Impact of Digital Imaging and Communications in Medicine Workflow on the Integration of Patient Demographics and Ophthalmic Test Data. Ophthalmology, 2015, 122, 227-232.	2.5	10
94	Meaningful Use. Ophthalmology, 2014, 121, 1667-1669.	2.5	4
95	Calculating the "Threshold to Treat" in Ocular Hypertension. Journal of Glaucoma, 2014, 23, 485-486.	0.8	3
96	Electronic Monitoring to Assess Adherence With Once-Daily Glaucoma Medications and Risk Factors for Nonadherence. JAMA Ophthalmology, 2014, 132, 838.	1.4	62
97	Automated Telecommunication-Based Reminders and Adherence With Once-Daily Glaucoma Medication Dosing. JAMA Ophthalmology, 2014, 132, 845.	1.4	70
98	Development and Validation of an Improved Neurological Hemifield Test to Identify Chiasmal and Postchiasmal Lesions by Automated Perimetry. , 2014, 55, 1017.		7
99	Development and Validation of a Predictive Model for Nonadherence with Once-Daily Glaucoma Medications. Ophthalmology, 2013, 120, 1396-1402.	2.5	40
100	Accuracy of Pupil Assessment for the Detection of Glaucoma. Ophthalmology, 2013, 120, 2217-2225.	2.5	57
101	Symmetry of the Pupillary Light Reflex and Its Relationship to Retinal Nerve Fiber Layer Thickness and Visual Field Defect. , 2013, 54, 5596.		36
102	The Impact of an Electronic Health Record Transition on a Glaucoma Subspecialty Practice. Ophthalmology, 2013, 120, 753-760.	2.5	42
103	Adoption of Electronic Health Records and Preparations for Demonstrating Meaningful Use. Ophthalmology, 2013, 120, 1702-1710.	2.5	96
104	Development and Validation of an Associative Model for the Detection of Glaucoma Using Pupillography. American Journal of Ophthalmology, 2013, 156, 1285-1296.e2.	1.7	25
105	The Relationship between Better-Eye and Integrated Visual Field Mean Deviation and Visual Disability. Ophthalmology, 2013, 120, 2476-2484.	2.5	52
106	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.	2.0	214
107	American Glaucoma Society Position Statement. Journal of Glaucoma, 2013, 22, 174-175.	0.8	6
108	External neurectomy may result in early return of function in some muscle groups following brachial plexus surgery. Clinical Neurology and Neurosurgery, 2012, 114, 768-775.	0.6	6

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109	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.	1.7	5
110	Choroidal Thickness Measured by Spectral Domain Optical Coherence Tomography. <i>Ophthalmology</i> , 2011, 118, 1571-1579.	2.5	221
111	Special Requirements for Electronic Health Record Systems in Ophthalmology. <i>Ophthalmology</i> , 2011, 118, 1681-1687.	2.5	115
112	Evaluation of an Algorithm for Detecting Visual Field Defects Due to Chiasmal and Postchiasmal Lesions: The Neurological Hemifield Test. , 2011, 52, 7959.		10
113	Evaluation of a combined index of optic nerve structure and function for glaucoma diagnosis. <i>BMC Ophthalmology</i> , 2011, 11, 6.	0.6	17
114	Effect of Patient's Life Expectancy on the Cost-effectiveness of Treatment for Ocular Hypertension. <i>JAMA Ophthalmology</i> , 2010, 128, 613.	2.6	23
115	A new method for determining physician decision thresholds using empiric, uncertain recommendations. <i>BMC Medical Informatics and Decision Making</i> , 2010, 10, 20.	1.5	16
116	Optic Disc Morphology in Open-Angle Glaucoma Compared with Anterior Ischemic Optic Neuropathies. , 2010, 51, 2003.		74
117	Author Response: Linear Relation between Structure and Function. , 2010, 51, 6891.		0
118	Meaningful Use of Electronic Health Records in Ophthalmology. <i>Ophthalmology</i> , 2010, 117, 2239-2240.	2.5	11
119	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.	2.5	46
120	Adoption and Perceptions of Electronic Health Record Systems by Ophthalmologists: An American Academy of Ophthalmology Survey. <i>Ophthalmology</i> , 2008, 115, 1591-1597.e5.	2.5	71
121	The Impact of Risk Calculation on Treatment Recommendations Made by Glaucoma Specialists in Cases of Ocular Hypertension. <i>Journal of Glaucoma</i> , 2008, 17, 631-638.	0.8	17
122	Risk Factors and Open-angle Glaucoma: Classification and Application. <i>Journal of Glaucoma</i> , 2007, 16, 406-418.	0.8	193
123	Object type recognition for automated analysis of protein subcellular location. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1351-1359.	6.0	42
124	Pattern Analysis Meets Cell Biology. <i>Microscopy and Microanalysis</i> , 1999, 5, 510-511.	0.2	0
125	Automated analysis of patterns in fluorescence-microscope images. <i>Trends in Cell Biology</i> , 1999, 9, 201-202.	3.6	25
126	Toward Objective Selection of Representative Microscope Images. <i>Biophysical Journal</i> , 1999, 76, 2230-2237.	0.2	30



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127	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images. Cytometry, 1998, 33, 366-375.	1.8	212
128	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images. , 1998, 33, 366.		4