

Michael V Boland

List of Publications by Year in descending order

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Version: 2024-02-01

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	Choroidal Thickness Measured by Spectral Domain Optical Coherence Tomography. <i>Ophthalmology</i> , 2011, 118, 1571-1579.	2.5	221
2	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.	2.0	214
3	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images. <i>Cytometry</i> , 1998, 33, 366-375.	1.8	212
4	Risk Factors and Open-angle Glaucoma: Classification and Application. <i>Journal of Glaucoma</i> , 2007, 16, 406-418.	0.8	193
5	Prevalence of Glaucoma in the United States: The 2005–2008 National Health and Nutrition Examination Survey. , 2016, 57, 2905.		122
6	Special Requirements for Electronic Health Record Systems in Ophthalmology. <i>Ophthalmology</i> , 2011, 118, 1681-1687.	2.5	115
7	Evidence-based Criteria for Assessment of Visual Field Reliability. <i>Ophthalmology</i> , 2017, 124, 1612-1620.	2.5	114
8	Adoption of Electronic Health Records and Preparations for Demonstrating Meaningful Use. <i>Ophthalmology</i> , 2013, 120, 1702-1710.	2.5	96
9	An Artificial Intelligence Approach to Detect Visual Field Progression in Glaucoma Based on Spatial Pattern Analysis. , 2019, 60, 365.		78
10	Optic Disc Morphology in Open-Angle Glaucoma Compared with Anterior Ischemic Optic Neuropathies. , 2010, 51, 2003.		74
11	Artificial intelligence in glaucoma. <i>Current Opinion in Ophthalmology</i> , 2019, 30, 97-103.	1.3	72
12	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
13	Automated Telecommunication-Based Reminders and Adherence With Once-Daily Glaucoma Medication Dosing. <i>JAMA Ophthalmology</i> , 2014, 132, 845.	1.4	70
14	Electronic Monitoring to Assess Adherence With Once-Daily Glaucoma Medications and Risk Factors for Nonadherence. <i>JAMA Ophthalmology</i> , 2014, 132, 838.	1.4	62
15	Diabetes, Triglyceride Levels, and Other Risk Factors for Glaucoma in the National Health and Nutrition Examination Survey 2005–2008. , 2016, 57, 2152.		62
16	Accuracy of Pupil Assessment for the Detection of Glaucoma. <i>Ophthalmology</i> , 2013, 120, 2217-2225.	2.5	57
17	Visual Defects in Patients With Pituitary Adenomas: The Myth of Bitemporal Hemianopsia. <i>American Journal of Roentgenology</i> , 2015, 205, W512-W518.	1.0	56
18	The Relationship between Better-Eye and Integrated Visual Field Mean Deviation and Visual Disability. <i>Ophthalmology</i> , 2013, 120, 2476-2484.	2.5	52

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19	Greater Physical Activity Is Associated with Slower Visual Field Loss in Glaucoma. <i>Ophthalmology</i> , 2019, 126, 958-964.	2.5	47
20	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
21	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.	1.4	44
22	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
23	Assessing Glaucoma Progression Using Machine Learning Trained on Longitudinal Visual Field and Clinical Data. <i>Ophthalmology</i> , 2021, 128, 1016-1026.	2.5	43
24	Object type recognition for automated analysis of protein subcellular location. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1351-1359.	6.0	42
25	The Impact of an Electronic Health Record Transition on a Glaucoma Subspecialty Practice. <i>Ophthalmology</i> , 2013, 120, 753-760.	2.5	42
26	Development and Validation of a Predictive Model for Nonadherence with Once-Daily Glaucoma Medications. <i>Ophthalmology</i> , 2013, 120, 1396-1402.	2.5	40
27	Symmetry of the Pupillary Light Reflex and Its Relationship to Retinal Nerve Fiber Layer Thickness and Visual Field Defect. , 2013, 54, 5596.		36
28	Reversal of Glaucoma Hemifield Test Results and Visual Field Features in Glaucoma. <i>Ophthalmology</i> , 2018, 125, 352-360.	2.5	36
29	Characterization of Central Visual Field Loss in End-stage Glaucoma by Unsupervised Artificial Intelligence. <i>JAMA Ophthalmology</i> , 2020, 138, 190.	1.4	36
30	Artificial Intelligence Classification of Central Visual Field Patterns in Glaucoma. <i>Ophthalmology</i> , 2020, 127, 731-738.	2.5	33
31	Agreement and Predictors of Discordance of 6 Visual Field Progression Algorithms. <i>Ophthalmology</i> , 2019, 126, 822-828.	2.5	31
32	Toward Objective Selection of Representative Microscope Images. <i>Biophysical Journal</i> , 1999, 76, 2230-2237.	0.2	30
33	The Evolving Role of the Relationship between Optic Nerve Structure and Function in Glaucoma. <i>Ophthalmology</i> , 2017, 124, S66-S70.	2.5	30
34	Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma. , 2016, 57, 2797.		28
35	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.	1.4	27
36	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

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37	Automated analysis of patterns in fluorescence-microscope images. Trends in Cell Biology, 1999, 9, 201-202.	3.6	25
38	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
39	Association Between Sleep Parameters and Glaucoma in the United States Population: National Health and Nutrition Examination Survey. Journal of Glaucoma, 2019, 28, 97-104.	0.8	24
40	Effect of Patient's Life Expectancy on the Cost-effectiveness of Treatment for Ocular Hypertension. JAMA Ophthalmology, 2010, 128, 613.	2.6	23
41	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.	2.2	22
42	Predicting eyes at risk for rapid glaucoma progression based on an initial visual field test using machine learning. PLoS ONE, 2021, 16, e0249856.	1.1	22
43	Cost and Visit Duration of Same-Day Access at an Academic Ophthalmology Department vs Emergency Department. JAMA Ophthalmology, 2019, 137, 729.	1.4	21
44	Cup-to-Disc Ratio Asymmetry in U.S. Adults. Ophthalmology, 2017, 124, 1229-1236.	2.5	20
45	Comparison of Clinical Outcomes with Open Versus Closed Conjunctiva Implantation of the XEN45 Gel Stent. Ophthalmology Glaucoma, 2021, 4, 343-349.	0.9	20
46	Monitoring Glaucomatous Functional Loss Using an Artificial Intelligence-Enabled Dashboard. Ophthalmology, 2020, 127, 1170-1178.	2.5	20
47	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.	0.9	20
48	The Impact of Risk Calculation on Treatment Recommendations Made by Glaucoma Specialists in Cases of Ocular Hypertension. Journal of Glaucoma, 2008, 17, 631-638.	0.8	17
49	Evaluation of a combined index of optic nerve structure and function for glaucoma diagnosis. BMC Ophthalmology, 2011, 11, 6.	0.6	17
50	A new method for determining physician decision thresholds using empiric, uncertain recommendations. BMC Medical Informatics and Decision Making, 2010, 10, 20.	1.5	16
51	Implementing an electronic learning management system for an Ophthalmology residency program. BMC Medical Education, 2016, 16, 307.	1.0	15
52	The Effect of Transitioning from SITA Standard to SITA Faster on Visual Field Performance. Ophthalmology, 2021, 128, 1417-1425.	2.5	15
53	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
54	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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55	Survey of Ehlers-Danlos Patients'™ ophthalmic surgery experiences. <i>Molecular Genetics & Genomic Medicine</i> , 2020, 8, e1155.	0.6	13
56	Ability of Ophthalmology Residents to Self-Assess Their Performance Through Established Milestones. <i>Journal of Surgical Education</i> , 2019, 76, 1076-1087.	1.2	12
57	Meaningful Use of Electronic Health Records in Ophthalmology. <i>Ophthalmology</i> , 2010, 117, 2239-2240.	2.5	11
58	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.	1.2	11
59	Baseline Age and Mean Deviation Affect the Rate of Glaucomatous Vision Loss. <i>Journal of Glaucoma</i> , 2020, 29, 31-38.	0.8	11
60	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
61	Evaluation of an Algorithm for Detecting Visual Field Defects Due to Chiasmal and Postchiasmal Lesions: The Neurological Hemifield Test. , 2011, 52, 7959.		10
62	Impact of Digital Imaging and Communications in Medicine Workflow on the Integration of Patient Demographics and Ophthalmic Test Data. <i>Ophthalmology</i> , 2015, 122, 227-232.	2.5	10
63	Big Data, Big Challenges. <i>Ophthalmology</i> , 2016, 123, 7-8.	2.5	10
64	Impact of Natural Blind Spot Location on Perimetry. <i>Scientific Reports</i> , 2017, 7, 6143.	1.6	10
65	Resident and program characteristics that impact performance on the Ophthalmic Knowledge Assessment Program (OKAP). <i>BMC Medical Education</i> , 2019, 19, 190.	1.0	10
66	Association of an Electronic Health Record-Linked Glaucoma Medical Reminder With Patient Satisfaction. <i>JAMA Ophthalmology</i> , 2019, 137, 240.	1.4	10
67	A Case for the Use of Artificial Intelligence in Glaucoma Assessment. <i>Ophthalmology Glaucoma</i> , 2022, 5, e3-e13.	0.9	10
68	Assessing Functional Disability in Glaucoma: The Relative Importance of Central Versus Far Peripheral Visual Fields. , 2020, 61, 23.		9
69	Low Vision Care " Out of Site. <i>Out of Mind</i> . <i>Ophthalmic Epidemiology</i> , 2020, 27, 252-258.	0.8	9
70	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
71	Deficiencies in Ophthalmology Residents'™ Case Logging of Glaucoma Surgery. <i>Ophthalmology Glaucoma</i> , 2020, 3, 218-220.	0.9	9
72	Effectiveness of Trabeculectomy and Tube Shunt with versus without Concurrent Phacoemulsification. <i>Ophthalmology Glaucoma</i> , 2023, 6, 42-53.	0.9	9

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73	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.	0.7	8
74	Predicting Global Testâ€“Retest Variability of Visual Fields in Glaucoma. <i>Ophthalmology Glaucoma</i> , 2021, 4, 390-399.	0.9	8
75	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
76	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
77	Development and Validation of an Improved Neurological Hemifield Test to Identify Chiasmal and Postchiasmal Lesions by Automated Perimetry. , 2014, 55, 1017.		7
78	Quantitative Analysis of the Displacement of the Anterior Visual Pathway by Pituitary Lesions and the Associated Visual Field Loss. , 2016, 57, 3576.		7
79	Factors Influencing Postgraduate Career Decisions of Ophthalmology Residents. <i>Journal of Academic Ophthalmology</i> (2017), 2020, 12, e124-e133.	0.2	7
80	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
81	Variability and Power to Detect Progression of Different Visual Field Patterns. <i>Ophthalmology Glaucoma</i> , 2021, 4, 617-623.	0.9	7
82	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, 768-775.	0.6	6
83	American Glaucoma Society Position Statement. <i>Journal of Glaucoma</i> , 2013, 22, 174-175.	0.8	6
84	Artificial Intelligence and Glaucoma: Illuminating the Black Box. <i>Ophthalmology Glaucoma</i> , 2020, 3, 311-313.	0.9	6
85	Unplanned Return to the Operating Room After Trabeculectomy. <i>American Journal of Ophthalmology</i> , 2020, 219, 132-140.	1.7	6
86	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
87	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
88	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
89	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
90	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.	1.0	5

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91	The Relationship Between Quantitative Pupillometry and Estimated Ganglion Cell Counts in Patients With Glaucoma. <i>Journal of Glaucoma</i> , 2019, 28, 238-242.	0.8	5
92	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
93	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
94	Telemedicine utilization by pediatric ophthalmologists during the COVID-19 pandemic. <i>Journal of AAPOS</i> , 2021, 25, 293-295.e1.	0.2	5
95	Meaningful Use. <i>Ophthalmology</i> , 2014, 121, 1667-1669.	2.5	4
96	Glaucoma Monitoring Using Manifold Learning and Unsupervised Clustering. , 2018, , .		4
97	Medicare Incentive Payments to United States Ophthalmologists for Use of Electronic Health Records. <i>Ophthalmology</i> , 2019, 126, 928-934.	2.5	4
98	Management of Tube-Related Hypotony Using Ab Interno Placement of Multifilament Nylon Suture to Reduce Flow. <i>Ophthalmology Glaucoma</i> , 2019, 2, 275-276.	0.9	4
99	Leveraging Electronic Health Records to Identify and Characterize Patients with Low Vision. <i>Ophthalmic Epidemiology</i> , 2019, 26, 132-139.	0.8	4
100	Evidence-Based Criteria for Determining Peripapillary OCT Reliability. <i>Ophthalmology</i> , 2020, 127, 167-176.	2.5	4
101	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
102	Automated recognition of patterns characteristic of subcellular structures in fluorescence microscopy images. , 1998, 33, 366.		4
103	Calculating the "Threshold to Treat" in Ocular Hypertension. <i>Journal of Glaucoma</i> , 2014, 23, 485-486.	0.8	3
104	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.	0.2	3
105	The Effect of Ametropia on Glaucomatous Visual Field Loss. <i>Journal of Clinical Medicine</i> , 2021, 10, 2796.	1.0	3
106	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
107	Sex-Based Differences in Medicare Reimbursements among Ophthalmologists Persist across Time. <i>Ophthalmology</i> , 2022, 129, 1056-1063.	2.5	3
108	Ophthalmology Surgical Assessment of Tube Shunt Glaucoma Surgery. <i>Ophthalmology Glaucoma</i> , 2023, 6, 100-105.	0.9	3

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109	Electronic Health Records and Ophthalmology. JAMA Ophthalmology, 2015, 133, 633.	1.4	2
110	Author Response: Comments on Evaluation of Central and Peripheral Visual Field Concordance in Glaucoma. , 2016, 57, 5272.		1
111	Association of Surgical Setting and Deployment of a New Electronic Health Record With Ophthalmic Operative Times. JAMA Ophthalmology, 2019, 137, 969.	1.4	1
112	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
113	Unplanned Return to the Operating Room After Tube Shunt Surgery. American Journal of Ophthalmology, 2021, 229, 242-252.	1.7	1
114	Patterns of retinal nerve fiber layer loss in patients with glaucoma identified by deep archetypal analysis. , 2020, , .		1
115	American Glaucoma Society Position Paper: Information Sharing Using Established Standards Is Essential to the Future of Glaucoma Care. Ophthalmology Glaucoma, 2021, , .	0.9	1
116	Improving Visual Field Forecasting by Correcting for the Effects of Poor Visual Field Reliability. Translational Vision Science and Technology, 2022, 11, 27.	1.1	1
117	Pattern Analysis Meets Cell Biology. Microscopy and Microanalysis, 1999, 5, 510-511.	0.2	0
118	Author Response: Linear Relation between Structure and Function. , 2010, 51, 6891.		0
119	Author Response: Neurological Hemifield Test in Binasal Defects. , 2015, 56, 2570.		0
120	Use of Multiple Tests Improves Screening for Glaucomaâ€”Reply. JAMA Ophthalmology, 2016, 134, 948.	1.4	0
121	How Much Time Should We Be Spending With Electronic Health Records?. JAMA Ophthalmology, 2017, 135, 1257.	1.4	0
122	Reply. Ophthalmology, 2018, 125, e66-e67.	2.5	0
123	Reply. Ophthalmology, 2019, 126, e78-e79.	2.5	0
124	Reply. Ophthalmology, 2019, 126, e48-e49.	2.5	0
125	Teaching Ethics and Professionalism: A National Survey of Ophthalmology Residency Program Directors. Journal of Academic Ophthalmology (2017), 2021, 13, e82-e88.	0.2	0
126	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.	0.2	0

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127	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
128	Remote Video Monitoring of Simultaneous Visual Field Testing. <i>Journal of Glaucoma</i> , 2022, 31, 488-493.	0.8	0