

# Tin Aung

## List of Publications by Year in descending order

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133  
papers

13,105  
citations

94433

37  
h-index

26613

107  
g-index

133  
all docs

133  
docs citations

133  
times ranked

12351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Prevalence of Glaucoma and Projections of Glaucoma Burden through 2040. <i>Ophthalmology</i> , 2014, 121, 2081-2090.	5.2	4,514
2	The Pathophysiology and Treatment of Glaucoma. <i>JAMA - Journal of the American Medical Association</i> , 2014, 311, 1901.	7.4	2,572
3	Glaucoma. <i>Lancet, The</i> , 2017, 390, 2183-2193.	13.7	890
4	Meta-analysis of genome-wide association studies in East Asian-ancestry populations identifies four new loci for body mass index. <i>Human Molecular Genetics</i> , 2014, 23, 5492-5504.	2.9	192
5	Long-term clinical course of primary angle-closure glaucoma in an Asian population. <i>Ophthalmology</i> , 2000, 107, 2300-2304.	5.2	188
6	Laser peripheral iridotomy for the prevention of angle closure: a single-centre, randomised controlled trial. <i>Lancet, The</i> , 2019, 393, 1609-1618.	13.7	175
7	Low-frequency and rare exome chip variants associate with fasting glucose and type 2 diabetes susceptibility. <i>Nature Communications</i> , 2015, 6, 5897.	12.8	173
8	Common variants near ABCA1 and in PMM2 are associated with primary open-angle glaucoma. <i>Nature Genetics</i> , 2014, 46, 1115-1119.	21.4	160
9	Glaucoma in Asia: regional prevalence variations and future projections. <i>British Journal of Ophthalmology</i> , 2016, 100, 78-85.	3.9	160
10	New loci and coding variants confer risk for age-related macular degeneration in East Asians. <i>Nature Communications</i> , 2015, 6, 6063.	12.8	147
11	Large-Scale Whole-Genome Sequencing of Three Diverse Asian Populations in Singapore. <i>Cell</i> , 2019, 179, 736-749.e15.	28.9	126
12	A Large-Scale Multi-ancestry Genome-wide Study Accounting for Smoking Behavior Identifies Multiple Significant Loci for Blood Pressure. <i>American Journal of Human Genetics</i> , 2018, 102, 375-400.	6.2	123
13	Finite Element Analysis Predicts Large Optic Nerve Head Strains During Horizontal Eye Movements. , 2016, 57, 2452.		119
14	Long-term outcomes in asians after acute primary angle closure. <i>Ophthalmology</i> , 2004, 111, 1464-1469.	5.2	117
15	Gene-Age Interactions in Blood Pressure Regulation: A Large-Scale Investigation with the CHARGE, Global BPgen, and ICBP Consortia. <i>American Journal of Human Genetics</i> , 2014, 95, 24-38.	6.2	109
16	A common variant near TGFB3 is associated with primary open angle glaucoma. <i>Human Molecular Genetics</i> , 2015, 24, 3880-3892.	2.9	105
17	A Deep Learning System for Automated Angle-Closure Detection in Anterior Segment Optical Coherence Tomography Images. <i>American Journal of Ophthalmology</i> , 2019, 203, 37-45.	3.3	105
18	The Prevalence and Types of Glaucoma in an Urban Chinese Population. <i>JAMA Ophthalmology</i> , 2015, 133, 874.	2.5	100

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19	A common variant mapping to CACNA1A is associated with susceptibility to exfoliation syndrome. <i>Nature Genetics</i> , 2015, 47, 387-392.	21.4	97
20	Meta-analysis of genome-wide association studies identifies novel loci that influence cupping and the glaucomatous process. <i>Nature Communications</i> , 2014, 5, 4883.	12.8	89
21	Lamina Cribrosa Visibility Using Optical Coherence Tomography: Comparison of Devices and Effects of Image Enhancement Techniques. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 865-874.	3.3	86
22	In Vivo 3-Dimensional Strain Mapping Confirms Large Optic Nerve Head Deformations Following Horizontal Eye Movements. , 2016, 57, 5825.		85
23	Ethnic Differences of Intraocular Pressure and Central Corneal Thickness. <i>Ophthalmology</i> , 2014, 121, 2013-2022.	5.2	78
24	Prevalence, Risk Factors, and Visual Features of Undiagnosed Glaucoma. <i>JAMA Ophthalmology</i> , 2015, 133, 938.	2.5	74
25	Identification of myopia-associated WNT7B polymorphisms provides insights into the mechanism underlying the development of myopia. <i>Nature Communications</i> , 2015, 6, 6689.	12.8	70
26	Discriminant Function of Optical Coherence Tomography Angiography to Determine Disease Severity in Glaucoma. , 2016, 57, 6079.		70
27	ABCC5, a Gene That Influences the Anterior Chamber Depth, Is Associated with Primary Angle Closure Glaucoma. <i>PLoS Genetics</i> , 2014, 10, e1004089.	3.5	68
28	Pupillary Responses to High-Irradiance Blue Light Correlate with Glaucoma Severity. <i>Ophthalmology</i> , 2015, 122, 1777-1785.	5.2	65
29	Blindness and Long-Term Progression of Visual Field Defects in Chinese Patients With Primary Angle-Closure Glaucoma. <i>American Journal of Ophthalmology</i> , 2011, 152, 463-469.	3.3	58
30	Polymorphisms at newly identified lipid-associated loci are associated with blood lipids and cardiovascular disease in an Asian Malay population. <i>Journal of Lipid Research</i> , 2009, 50, 514-520.	4.2	53
31	Efficacy of Selective Laser Trabeculoplasty in Primary Angle-Closure Glaucoma. <i>JAMA Ophthalmology</i> , 2015, 133, 206.	2.5	53
32	Subgrouping of Primary Angle-Closure Suspects Based on Anterior Segment Optical Coherence Tomography Parameters. <i>Ophthalmology</i> , 2013, 120, 2525-2531.	5.2	52
33	Pupillary Responses to Full-Field Chromatic Stimuli Are Reduced in Patients with Early-Stage Primary Open-Angle Glaucoma. <i>Ophthalmology</i> , 2018, 125, 1362-1371.	5.2	49
34	Retinal Nerve Fiber Layer Thickness in a Multiethnic Normal Asian Population. <i>Ophthalmology</i> , 2019, 126, 702-711.	5.2	49
35	A Global Shape Index to Characterize Anterior Lamina Cribrosa Morphology and Its Determinants in Healthy Indian Eyes. , 2015, 56, 3604.		47
36	Glaucoma and Associated Visual Acuity and Field Loss Significantly Affect Glaucoma-Specific Psychosocial Functioning. <i>Ophthalmology</i> , 2015, 122, 494-501.	5.2	47

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37	Feasibility study of sustained-release travoprost punctum plug for intraocular pressure reduction in an Asian population. <i>Clinical Ophthalmology</i> , 2016, 10, 757.	1.8	47
38	Myopia in Asian Subjects with Primary Angle Closure. <i>Ophthalmology</i> , 2014, 121, 1566-1571.	5.2	45
39	Why does acute primary angle closure happen? Potential risk factors for acute primary angle closure. <i>Survey of Ophthalmology</i> , 2017, 62, 635-647.	4.0	44
40	Association of Systemic Medication Use With Intraocular Pressure in a Multiethnic Asian Population. <i>JAMA Ophthalmology</i> , 2017, 135, 196.	2.5	43
41	Long-term Outcomes in Fellow Eyes after Acute Primary Angle Closure in the Contralateral Eye. <i>Ophthalmology</i> , 2006, 113, 1087-1091.	5.2	41
42	Anterior Segment Imaging Predicts Incident Gonioscopic Angle Closure. <i>Ophthalmology</i> , 2015, 122, 2380-2384.	5.2	41
43	The visual field following acute primary angle closure. <i>Acta Ophthalmologica</i> , 2001, 79, 298-300.	0.3	39
44	Serum vitamin D status is associated with the presence but not the severity of primary open angle glaucoma. <i>Maturitas</i> , 2015, 81, 470-474.	2.4	39
45	Determinants of Optical Coherence Tomographyâ€Derived Minimum Neuroretinal Rim Width in a Normal Chinese Population. , 2015, 56, 3337.		38
46	Assessment of Iris Surface Features and Their Relationship with Iris Thickness in Asian Eyes. <i>Ophthalmology</i> , 2014, 121, 1007-1012.	5.2	37
47	The Singapore Asymptomatic Narrow Angles Laser Iridotomy Study. <i>Ophthalmology</i> , 2022, 129, 147-158.	5.2	37
48	Ocular Biometric Risk Factors for Progression of Primary Angle Closure Disease. <i>Ophthalmology</i> , 2022, 129, 267-275.	5.2	36
49	Association of Common SIX6 Polymorphisms With Peripapillary Retinal Nerve Fiber Layer Thickness: The Singapore Chinese Eye Study. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 478-483.	3.3	35
50	High resolution iridocorneal angle imaging system by axicon lens assisted gonioscopy. <i>Scientific Reports</i> , 2016, 6, 30844.	3.3	35
51	Anatomic Changes and Predictors of Angle Widening after Laser Peripheral Iridotomy. <i>Ophthalmology</i> , 2021, 128, 1161-1168.	5.2	35
52	Pattern of Visual Field Loss in Primary Angle-Closure Glaucoma Across Different Severity Levels. <i>Ophthalmology</i> , 2016, 123, 1957-1964.	5.2	34
53	Swept-source optical coherence tomography assessment of irisâ€trabecular contact after phacoemulsification with or without goniosynechialysis in eyes with primary angle closure glaucoma. <i>British Journal of Ophthalmology</i> , 2015, 99, 927-931.	3.9	33
54	Shape Changes of the Anterior Lamina Cribrosa in Normal, Ocular Hypertensive, and Glaucomatous Eyes Following Acute Intraocular Pressure Elevation. , 2016, 57, 4869.		33

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55	Multimodal Machine Learning Using Visual Fields and Peripapillary Circular OCT Scans in Detection of Glaucomatous Optic Neuropathy. <i>Ophthalmology</i> , 2022, 129, 171-180.	5.2	33
56	The Global Extent of Undetected Glaucoma in Adults. <i>Ophthalmology</i> , 2021, 128, 1393-1404.	5.2	33
57	Biometric Factors Associated With Acute Primary Angle Closure: Comparison of the Affected and Fellow Eye. , 2016, 57, 5320.		31
58	Association of Baseline Anterior Segment Parameters With the Development of Incident Gonioscopic Angle Closure. <i>JAMA Ophthalmology</i> , 2017, 135, 252.	2.5	30
59	Argon Laser Peripheral Iridoplasty for Primary Angle-Closure Glaucoma. <i>Ophthalmology</i> , 2016, 123, 514-521.	5.2	29
60	Cerebral neural correlates of differential melanopic photic stimulation in humans. <i>NeuroImage</i> , 2017, 146, 763-769.	4.2	29
61	Profiles of Ganglion Cell-Inner Plexiform Layer Thickness in a Multi-Ethnic Asian Population. <i>Ophthalmology</i> , 2020, 127, 1064-1076.	5.2	29
62	Lack of Association Between the rs2664538 Polymorphism in the MMP-9 Gene and Primary Angle Closure Glaucoma in Singaporean Subjects. <i>Journal of Glaucoma</i> , 2008, 17, 257-258.	1.6	28
63	Analysis of non-synonymous-coding variants of Parkinson's disease-related pathogenic and susceptibility genes in East Asian populations. <i>Human Molecular Genetics</i> , 2014, 23, 3891-3897.	2.9	28
64	Aggregate Effects of Intraocular Pressure and Cup-to-Disc Ratio Genetic Variants on Glaucoma in a Multiethnic Asian Population. <i>Ophthalmology</i> , 2015, 122, 1149-1157.	5.2	28
65	Glaucoma Genetics. <i>Asia-Pacific Journal of Ophthalmology</i> , 2016, 5, 256-259.	2.5	28
66	Beyond intraocular pressure: Optimizing patient-reported outcomes in glaucoma. <i>Progress in Retinal and Eye Research</i> , 2020, 76, 100801.	15.5	28
67	Peripapillary choroidal thickness assessed using automated choroidal segmentation software in an Asian population. <i>British Journal of Ophthalmology</i> , 2015, 99, 920-926.	3.9	27
68	The Effect of Testing Reliability on Visual Field Sensitivity in Normal Eyes. <i>Ophthalmology</i> , 2018, 125, 15-21.	5.2	27
69	Development of a Score and Probability Estimate for Detecting Angle Closure Based on Anterior Segment Optical Coherence Tomography. <i>American Journal of Ophthalmology</i> , 2014, 157, 32-38.e1.	3.3	25
70	Relationship Between Peripapillary Choroid and Retinal Nerve Fiber Layer Thickness in a Population-Based Sample of Nonglaucomatous Eyes. <i>American Journal of Ophthalmology</i> , 2016, 161, 4-11.e2.	3.3	25
71	Expression of the Primary Angle Closure Glaucoma (PACG) Susceptibility Gene <i>PLEKHA7</i> in Endothelial and Epithelial Cell Junctions in the Eye. , 2014, 55, 3833.		24
72	Evaluation of the Anterior Segment Angle-to-Angle Scan of Cirrus High-Definition Optical Coherence Tomography and Comparison With Gonioscopy and With the Visante OCT. , 2017, 58, 59.		24

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73	Disrupted Eye Movements in Preperimetric Primary Open-Angle Glaucoma. , 2017, 58, 2430.		24
74	Residual Angle Closure One Year After Laser Peripheral Iridotomy in Primary Angle Closure Suspects. American Journal of Ophthalmology, 2017, 183, 111-117.	3.3	23
75	Describing the Structural Phenotype of the Glaucomatous Optic Nerve Head Using Artificial Intelligence. American Journal of Ophthalmology, 2022, 236, 172-182.	3.3	23
76	CMPK1 and RBP3 are associated with corneal curvature in Asian populations. Human Molecular Genetics, 2014, 23, 6129-6136.	2.9	22
77	Evaluation of Primary Angle-Closure Glaucoma Susceptibility Loci in Patients with Early Stages of Angle-Closure Disease. Ophthalmology, 2018, 125, 664-670.	5.2	22
78	Diagnostic Ability of Individual Macular Layers by Spectral-Domain OCT in Different Stages of Glaucoma. Ophthalmology Glaucoma, 2020, 3, 314-326.	1.9	21
79	Digital Gonioscopy Based on Three-dimensional Anterior-Segment OCT. Ophthalmology, 2022, 129, 45-53.	5.2	21
80	Clinical effectiveness of brinzolamide 1%&ndash;brimonidine 0.2% fixed combination for primary open-angle glaucoma and ocular hypertension. Clinical Ophthalmology, 2015, 9, 2201.	1.8	20
81	A Vision "Bolt-On" Item Could Increase the Discriminatory Power of the EQ-5D Index Score. Value in Health, 2015, 18, 1037-1042.	0.3	20
82	A Genetic Variant in TGFBR3-CDC7 Is Associated with Visual Field Progression in Primary Open-Angle Glaucoma Patients from Singapore. Ophthalmology, 2015, 122, 2416-2422.	5.2	20
83	Visual Field Progression in Patients with Primary Angle-Closure Glaucoma Using Pointwise Linear Regression Analysis. Ophthalmology, 2017, 124, 1065-1071.	5.2	20
84	Referral for disease-related visual impairment using retinal photograph-based deep learning: a proof-of-concept, model development study. The Lancet Digital Health, 2021, 3, e29-e40.	12.3	20
85	Iris Crypts Influence Dynamic Changes of Iris Volume. Ophthalmology, 2016, 123, 2077-2084.	5.2	19
86	The genetics of angle closure glaucoma. Experimental Eye Research, 2019, 189, 107835.	2.6	19
87	Relationship Between Iris Surface Features and Angle Width in Asian Eyes. Investigative Ophthalmology and Visual Science, 2014, 55, 8144-8148.	3.3	18
88	Performance of the Moorfields Motion Displacement Test for Identifying Eyes with Glaucoma. Ophthalmology, 2014, 121, 88-92.	5.2	17
89	Integrated flexible handheld probe for imaging and evaluation of iridocorneal angle. Journal of Biomedical Optics, 2015, 20, 016014.	2.6	16
90	Inter-eye comparison of retinal oximetry and vessel caliber between eyes with asymmetrical glaucoma severity in different glaucoma subtypes. Clinical Ophthalmology, 2016, Volume 10, 1315-1321.	1.8	16

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91	Lack of Association Between Corneal Hysteresis and Corneal Resistance Factor With Glaucoma Severity in Primary Angle Closure Glaucoma. , 2015, 56, 6879.		15
92	The genetic basis for adult onset glaucoma: Recent advances and future directions. Progress in Retinal and Eye Research, 2022, 90, 101066.	15.5	15
93	Evaluation of Choroidal Thickness, Intraocular Pressure, and Serum Osmolality After the Water Drinking Test in Eyes With Primary Angle Closure. , 2015, 56, 2135.		14
94	High-Density Lipoprotein 3 Cholesterol and Primary Open-Angle Glaucoma. Ophthalmology, 2022, 129, 285-294.	5.2	13
95	Impact of Measurement Error on Testing Genetic Association with Quantitative Traits. PLoS ONE, 2014, 9, e87044.	2.5	12
96	Inter-Relationships Between Retinal Vascular Caliber, Retinal Nerve Fiber Layer Thickness, and Glaucoma: A Mediation Analysis Approach. , 2016, 57, 3803.		12
97	Evaluation of Primary Angle-Closure Glaucoma Susceptibility Loci for Estimating Angle Closure Disease Severity. Ophthalmology, 2021, 128, 403-409.	5.2	12
98	Author Response: Peripapillary Suprachoroidal Cavitation, Parapapillary Gamma Zone and Optic Disc Rotation Due to the Biomechanics of the Optic Nerve Dura Mater. , 2016, 57, 4374.		11
99	Comparison of Corneal Biomechanical Properties between Indian and Chinese Adults. Ophthalmology, 2017, 124, 1271-1279.	5.2	11
100	Six-Year Incidence and Risk Factors for Primary Angle-Closure Disease. Ophthalmology, 2022, 129, 792-802.	5.2	11
101	Integration of Genetic and Biometric Risk Factors for Detection of Primary Angle Closure Glaucoma. American Journal of Ophthalmology, 2019, 208, 160-165.	3.3	10
102	Multivariate Normative Comparison, a Novel Method for Improved Use of Retinal Nerve Fiber Layer Thickness to Detect Early Glaucoma. Ophthalmology Glaucoma, 2022, 5, 359-368.	1.9	10
103	Flavonoids and glaucoma: revisiting therapies from the past. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 1839-1840.	1.9	9
104	Evaluation of the Diagnostic Performance of Swept-Source Anterior Segment Optical Coherence Tomography in Primary Angle Closure Disease. American Journal of Ophthalmology, 2022, 233, 68-77.	3.3	9
105	Visual Impairment in Old and Very Old Community-dwelling Asian Adults. Ophthalmology, 2016, 123, 2436-2438.	5.2	8
106	Long-term outcomes after acute primary angle closure of <sc>Caucasian</sc> chronic angle closure glaucoma patients. Clinical and Experimental Ophthalmology, 2018, 46, 232-239.	2.6	8
107	Changes in Intraocular Pressure and Angle Structure after Dilation in Primary Angle-Closure Suspects with Visually Significant Cataract. Ophthalmology, 2021, 128, 39-47.	5.2	8
108	Determinants of Posterior Corneal Biometric Measurements in a Multi-Ethnic Asian Population. PLoS ONE, 2014, 9, e101483.	2.5	8

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109	Retinal Nerve Fiber Layer Thickness and Rim Area Profiles in Asians. <i>Ophthalmology</i> , 2022, 129, 552-561.	5.2	8
110	A Digital Staining Algorithm for Optical Coherence Tomography Images of the Optic Nerve Head. <i>Translational Vision Science and Technology</i> , 2017, 6, 8.	2.2	7
111	Plasma endothelin-1 and single nucleotide polymorphisms of as risk factors for normal tension glaucoma. <i>Molecular Vision</i> , 2016, 22, 1256-1266.	1.1	7
112	Changes in anterior segment dimensions over 4â€¦years in a cohort of Singaporean subjects with open angles. <i>British Journal of Ophthalmology</i> , 2015, 99, 1097-1102.	3.9	6
113	Glaucoma â€“ Authors' reply. <i>Lancet, The</i> , 2018, 391, 740.	13.7	6
114	Estrogen receptor gene polymorphisms and their influence on clinical status of Caucasian patients with primary open angle glaucoma. <i>Ophthalmic Genetics</i> , 2019, 40, 323-328.	1.2	6
115	Omidenepag isopropyl ophthalmic solution for open-angle glaucoma and ocular hypertension: an update. <i>Expert Review of Ophthalmology</i> , 2021, 16, 243-250.	0.6	5
116	The three-dimensional structural configuration of the central retinal vessel trunk and branches as a glaucoma biomarker. <i>American Journal of Ophthalmology</i> , 2022, 240, 205-216.	3.3	5
117	Determinants of pupil diameters and pupil dynamics in an adult Chinese population. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 929-936.	1.9	4
118	Intraocular pressure change after phacoemulsification in angle-closure eyes without medical therapy. <i>Journal of Cataract and Refractive Surgery</i> , 2017, 43, 767-773.	1.5	4
119	Plateau Iris and Severity of Primary Angle Closure Glaucoma. <i>American Journal of Ophthalmology</i> , 2020, 220, 1-8.	3.3	4
120	Association of the CYP39A1 G204E Genetic Variant with Increased Risk of Glaucoma and Blindness in Patients with Exfoliation Syndrome. <i>Ophthalmology</i> , 2022, 129, 406-413.	5.2	4
121	Lens Status Influences the Association between CFH Polymorphisms and Age-Related Macular Degeneration: Findings from Two Population-Based Studies in Singapore. <i>PLoS ONE</i> , 2015, 10, e0119570.	2.5	3
122	Longitudinal assessment of optic nerve head changes using optical coherence tomography in a primate microbead model of ocular hypertension. <i>Scientific Reports</i> , 2020, 10, 14709.	3.3	3
123	Six-Year Incidence and Risk Factors of Primary Glaucoma in the Singapore Indian Eye Study. <i>Ophthalmology Glaucoma</i> , 2021, 4, 201-208.	1.9	3
124	Comparison of machine learning approaches for structureâ€“function modeling in glaucoma. <i>Annals of the New York Academy of Sciences</i> , 2022, 1515, 237-248.	3.8	3
125	Can an inexperienced observer accurately plot disc contours using Heidelberg retinal Tomograph?. <i>Canadian Journal of Ophthalmology</i> , 2014, 49, 249-255.	0.7	2
126	Evolution of the treatment paradigm for maximum medical therapy in glaucoma. <i>Expert Review of Ophthalmology</i> , 2019, 14, 33-42.	0.6	2



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127	Reply. Ophthalmology, 2016, 123, e53-e54.	5.2	1
128	Cataract progression after Nd:YAG laser iridotomy in primary angle-closure suspect eyes. British Journal of Ophthalmology, 2023, 107, 1264-1268.	3.9	1
129	Acute Angle-Closure Attacks Are Uncommon in Primary Angle-Closure Suspects after Pharmacologic Mydriasis. Ophthalmology Glaucoma, 2022, 5, 581-586.	1.9	1
130	Reply. Ophthalmology, 2016, 123, e50-e51.	5.2	0
131	Reply. Ophthalmology, 2017, 124, e34-e35.	5.2	0
132	Predictive Value of Bleb Vascularity after Mitomycin C Augmented Trabeculectomy. Journal of Clinical Medicine, 2020, 9, 3501.	2.4	0
133	Myopia and Glaucoma. , 2010, , 121-135.		0