

Tin Aung

List of Publications by Year in descending order

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papers

13,105
citations

108046

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docs citations

133
times ranked

13412
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#	ARTICLE	IF	CITATIONS
1	Cataract progression after Nd:YAG laser iridotomy in primary angle-closure suspect eyes. British Journal of Ophthalmology, 2023, 107, 1264-1268.	2.1	1
2	Describing the Structural Phenotype of the Glaucomatous Optic Nerve Head Using Artificial Intelligence. American Journal of Ophthalmology, 2022, 236, 172-182.	1.7	23
3	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.	1.7	9
4	Multimodal Machine Learning Using Visual Fields and Peripapillary Circular OCT Scans in Detection of Glaucomatous Optic Neuropathy. Ophthalmology, 2022, 129, 171-180.	2.5	33
5	The Singapore Asymptomatic Narrow Angles Laser Iridotomy Study. Ophthalmology, 2022, 129, 147-158.	2.5	37
6	High-Density Lipoprotein 3 Cholesterol and Primary Open-Angle Glaucoma. Ophthalmology, 2022, 129, 285-294.	2.5	13
7	Ocular Biometric Risk Factors for Progression of Primary Angle Closure Disease. Ophthalmology, 2022, 129, 267-275.	2.5	36
8	Digital Gonioscopy Based on Three-dimensional Anterior-Segment OCT. Ophthalmology, 2022, 129, 45-53.	2.5	21
9	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.	0.9	10
10	Association of the CYP39A1 G204E Genetic Variant with Increased Risk of Glaucoma and Blindness in Patients with Exfoliation Syndrome. Ophthalmology, 2022, 129, 406-413.	2.5	4
11	Retinal Nerve Fiber Layer Thickness and Rim Area Profiles in Asians. Ophthalmology, 2022, 129, 552-561.	2.5	8
12	Six-Year Incidence and Risk Factors for Primary Angle-Closure Disease. Ophthalmology, 2022, 129, 792-802.	2.5	11
13	The three-dimensional structural configuration of the central retinal vessel trunk and branches as a glaucoma biomarker. American Journal of Ophthalmology, 2022, 240, 205-216.	1.7	5
14	Acute Angle-Closure Attacks Are Uncommon in Primary Angle-Closure Suspects after Pharmacologic Mydriasis. Ophthalmology Glaucoma, 2022, 5, 581-586.	0.9	1
15	The genetic basis for adult onset glaucoma: Recent advances and future directions. Progress in Retinal and Eye Research, 2022, 90, 101066.	7.3	15
16	Comparison of machine learning approaches for structure–function modeling in glaucoma. Annals of the New York Academy of Sciences, 2022, 1515, 237-248.	1.8	3
17	Evaluation of Primary Angle-Closure Glaucoma Susceptibility Loci for Estimating Angle Closure Disease Severity. Ophthalmology, 2021, 128, 403-409.	2.5	12
18	Changes in Intraocular Pressure and Angle Structure after Dilatation in Primary Angle-Closure Suspects with Visually Significant Cataract. Ophthalmology, 2021, 128, 39-47.	2.5	8

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19	Referral for disease-related visual impairment using retinal photograph-based deep learning: a proof-of-concept, model development study. <i>The Lancet Digital Health</i> , 2021, 3, e29-e40.	5.9	20
20	Six-Year Incidence and Risk Factors of Primary Glaucoma in the Singapore Indian Eye Study. <i>Ophthalmology Glaucoma</i> , 2021, 4, 201-208.	0.9	3
21	Omidenepag isopropyl ophthalmic solution for open-angle glaucoma and ocular hypertension: an update. <i>Expert Review of Ophthalmology</i> , 2021, 16, 243-250.	0.3	5
22	Anatomic Changes and Predictors of Angle Widening after Laser Peripheral Iridotomy. <i>Ophthalmology</i> , 2021, 128, 1161-1168.	2.5	35
23	The Global Extent of Undetected Glaucoma in Adults. <i>Ophthalmology</i> , 2021, 128, 1393-1404.	2.5	33
24	Beyond intraocular pressure: Optimizing patient-reported outcomes in glaucoma. <i>Progress in Retinal and Eye Research</i> , 2020, 76, 100801.	7.3	28
25	Plateau Iris and Severity of Primary Angle Closure Glaucoma. <i>American Journal of Ophthalmology</i> , 2020, 220, 1-8.	1.7	4
26	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.	1.6	3
27	Predictive Value of Bleb Vascularity after Mitomycin C Augmented Trabeculectomy. <i>Journal of Clinical Medicine</i> , 2020, 9, 3501.	1.0	0
28	Diagnostic Ability of Individual Macular Layers by Spectral-Domain OCT in Different Stages of Glaucoma. <i>Ophthalmology Glaucoma</i> , 2020, 3, 314-326.	0.9	21
29	Profiles of Ganglion Cell-Inner Plexiform Layer Thickness in a Multi-Ethnic Asian Population. <i>Ophthalmology</i> , 2020, 127, 1064-1076.	2.5	29
30	Integration of Genetic and Biometric Risk Factors for Detection of Primary Angle Closure Glaucoma. <i>American Journal of Ophthalmology</i> , 2019, 208, 160-165.	1.7	10
31	Large-Scale Whole-Genome Sequencing of Three Diverse Asian Populations in Singapore. <i>Cell</i> , 2019, 179, 736-749.e15.	13.5	126
32	The genetics of angle closure glaucoma. <i>Experimental Eye Research</i> , 2019, 189, 107835.	1.2	19
33	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.	0.5	6
34	Evolution of the treatment paradigm for maximum medical therapy in glaucoma. <i>Expert Review of Ophthalmology</i> , 2019, 14, 33-42.	0.3	2
35	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.	1.7	105
36	Laser peripheral iridotomy for the prevention of angle closure: a single-centre, randomised controlled trial. <i>Lancet</i> , 2019, 393, 1609-1618.	6.3	175

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37	Retinal Nerve Fiber Layer Thickness in a Multiethnic Normal Asian Population. <i>Ophthalmology</i> , 2019, 126, 702-711.	2.5	49
38	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.	2.6	123
39	Evaluation of Primary Angle-Closure Glaucoma Susceptibility Loci in Patients with Early Stages of Angle-Closure Disease. <i>Ophthalmology</i> , 2018, 125, 664-670.	2.5	22
40	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.	2.5	49
41	Glaucoma – Authors' reply. <i>Lancet, The</i> , 2018, 391, 740.	6.3	6
42	Long-term outcomes after acute primary angle closure of Caucasian chronic angle closure glaucoma patients. <i>Clinical and Experimental Ophthalmology</i> , 2018, 46, 232-239.	1.3	8
43	The Effect of Testing Reliability on Visual Field Sensitivity in Normal Eyes. <i>Ophthalmology</i> , 2018, 125, 15-21.	2.5	27
44	Association of Systemic Medication Use With Intraocular Pressure in a Multiethnic Asian Population. <i>JAMA Ophthalmology</i> , 2017, 135, 196.	1.4	43
45	Association of Baseline Anterior Segment Parameters With the Development of Incident Gonioscopic Angle Closure. <i>JAMA Ophthalmology</i> , 2017, 135, 252.	1.4	30
46	Why does acute primary angle closure happen? Potential risk factors for acute primary angle closure. <i>Survey of Ophthalmology</i> , 2017, 62, 635-647.	1.7	44
47	Comparison of Corneal Biomechanical Properties between Indian and Chinese Adults. <i>Ophthalmology</i> , 2017, 124, 1271-1279.	2.5	11
48	Glaucoma. <i>Lancet, The</i> , 2017, 390, 2183-2193.	6.3	890
49	Reply. <i>Ophthalmology</i> , 2017, 124, e34-e35.	2.5	0
50	Visual Field Progression in Patients with Primary Angle-Closure Glaucoma Using Pointwise Linear Regression Analysis. <i>Ophthalmology</i> , 2017, 124, 1065-1071.	2.5	20
51	Residual Angle Closure One Year After Laser Peripheral Iridotomy in Primary Angle Closure Suspects. <i>American Journal of Ophthalmology</i> , 2017, 183, 111-117.	1.7	23
52	Intraocular pressure change after phacoemulsification in angle-closure eyes without medical therapy. <i>Journal of Cataract and Refractive Surgery</i> , 2017, 43, 767-773.	0.7	4
53	Cerebral neural correlates of differential melanopic photic stimulation in humans. <i>NeuroImage</i> , 2017, 146, 763-769.	2.1	29
54	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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55	A Digital Staining Algorithm for Optical Coherence Tomography Images of the Optic Nerve Head. Translational Vision Science and Technology, 2017, 6, 8.	1.1	7
56	Disrupted Eye Movements in Preperimetric Primary Open-Angle Glaucoma. , 2017, 58, 2430.		24
57	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
58	Feasibility study of sustained-release travoprost punctum plug for intraocular pressure reduction in an Asian population. Clinical Ophthalmology, 2016, 10, 757.	0.9	47
59	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.	0.9	16
60	Inter-Relationships Between Retinal Vascular Caliber, Retinal Nerve Fiber Layer Thickness, and Glaucoma: A Mediation Analysis Approach. , 2016, 57, 3803.		12
61	Shape Changes of the Anterior Lamina Cribrosa in Normal, Ocular Hypertensive, and Glaucomatous Eyes Following Acute Intraocular Pressure Elevation. , 2016, 57, 4869.		33
62	In Vivo 3-Dimensional Strain Mapping Confirms Large Optic Nerve Head Deformations Following Horizontal Eye Movements. , 2016, 57, 5825.		85
63	Discriminant Function of Optical Coherence Tomography Angiography to Determine Disease Severity in Glaucoma. , 2016, 57, 6079.		70
64	Finite Element Analysis Predicts Large Optic Nerve Head Strains During Horizontal Eye Movements. , 2016, 57, 2452.		119
65	Biometric Factors Associated With Acute Primary Angle Closure: Comparison of the Affected and Fellow Eye. , 2016, 57, 5320.		31
66	High resolution iridocorneal angle imaging system by axicon lens assisted gonioscopy. Scientific Reports, 2016, 6, 30844.	1.6	35
67	Reply. Ophthalmology, 2016, 123, e50-e51.	2.5	0
68	Reply. Ophthalmology, 2016, 123, e53-e54.	2.5	1
69	Iris Crypts Influence Dynamic Changes of Iris Volume. Ophthalmology, 2016, 123, 2077-2084.	2.5	19
70	Visual Impairment in Old and Very Old Community-dwelling Asian Adults. Ophthalmology, 2016, 123, 2436-2438.	2.5	8
71	Pattern of Visual Field Loss in Primary Angle-Closure Glaucoma Across Different Severity Levels. Ophthalmology, 2016, 123, 1957-1964.	2.5	34
72	Glaucoma Genetics. Asia-Pacific Journal of Ophthalmology, 2016, 5, 256-259.	1.3	28

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73	Argon Laser Peripheral Iridoplasty for Primary Angle-Closure Glaucoma. <i>Ophthalmology</i> , 2016, 123, 514-521.	2.5	29
74	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.	1.0	4
75	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.	1.7	25
76	Glaucoma in Asia: regional prevalence variations and future projections. <i>British Journal of Ophthalmology</i> , 2016, 100, 78-85.	2.1	160
77	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
78	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
79	Evaluation of Choroidal Thickness, Intraocular Pressure, and Serum Osmolality After the Water Drinking Test in Eyes With Primary Angle Closure. , 2015, 56, 2135.		14
80	Determinants of Optical Coherence Tomographyâ€œDerived Minimum Neuroretinal Rim Width in a Normal Chinese Population. , 2015, 56, 3337.		38
81	A Global Shape Index to Characterize Anterior Lamina Cribrosa Morphology and Its Determinants in Healthy Indian Eyes. , 2015, 56, 3604.		47
82	Lack of Association Between Corneal Hysteresis and Corneal Resistance Factor With Glaucoma Severity in Primary Angle Closure Glaucoma. , 2015, 56, 6879.		15
83	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.	1.1	3
84	Clinical effectiveness of brinzolamide 1%–brimonidine 0.2% fixed combination for primary open-angle glaucoma and ocular hypertension. <i>Clinical Ophthalmology</i> , 2015, 9, 2201.	0.9	20
85	Efficacy of Selective Laser Trabeculoplasty in Primary Angle-Closure Glaucoma. <i>JAMA Ophthalmology</i> , 2015, 133, 206.	1.4	53
86	The Prevalence and Types of Glaucoma in an Urban Chinese Population. <i>JAMA Ophthalmology</i> , 2015, 133, 874.	1.4	100
87	A common variant near TGFBR3 is associated with primary open angle glaucoma. <i>Human Molecular Genetics</i> , 2015, 24, 3880-3892.	1.4	105
88	A Vision â€œBolt-Onâ€œItem Could Increase the Discriminatory Power of the EQ-5D Index Score. <i>Value in Health</i> , 2015, 18, 1037-1042.	0.1	20
89	New loci and coding variants confer risk for age-related macular degeneration in East Asians. <i>Nature Communications</i> , 2015, 6, 6063.	5.8	147
90	Changes in anterior segment dimensions over 4â€œyears in a cohort of Singaporean subjects with open angles. <i>British Journal of Ophthalmology</i> , 2015, 99, 1097-1102.	2.1	6

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91	Glaucoma and Associated Visual Acuity and Field Loss Significantly Affect Glaucoma-Specific Psychosocial Functioning. <i>Ophthalmology</i> , 2015, 122, 494-501.	2.5	47
92	Low-frequency and rare exome chip variants associate with fasting glucose and type 2 diabetes susceptibility. <i>Nature Communications</i> , 2015, 6, 5897.	5.8	173
93	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
94	A common variant mapping to CACNA1A is associated with susceptibility to exfoliation syndrome. <i>Nature Genetics</i> , 2015, 47, 387-392.	9.4	97
95	Swept-source optical coherence tomography assessment of iris 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.	2.1	33
96	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.	1.0	39
97	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.	2.5	28
98	Peripapillary choroidal thickness assessed using automated choroidal segmentation software in an Asian population. <i>British Journal of Ophthalmology</i> , 2015, 99, 920-926.	2.1	27
99	Integrated flexible handheld probe for imaging and evaluation of iridocorneal angle. <i>Journal of Biomedical Optics</i> , 2015, 20, 016014.	1.4	16
100	Identification of myopia-associated WNT7B polymorphisms provides insights into the mechanism underlying the development of myopia. <i>Nature Communications</i> , 2015, 6, 6689.	5.8	70
101	Anterior Segment Imaging Predicts Incident Gonioscopic Angle Closure. <i>Ophthalmology</i> , 2015, 122, 2380-2384.	2.5	41
102	Flavonoids and glaucoma: revisiting therapies from the past. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2015, 253, 1839-1840.	1.0	9
103	Pupillary Responses to High-Irradiance Blue Light Correlate with Glaucoma Severity. <i>Ophthalmology</i> , 2015, 122, 1777-1785.	2.5	65
104	Prevalence, Risk Factors, and Visual Features of Undiagnosed Glaucoma. <i>JAMA Ophthalmology</i> , 2015, 133, 938.	1.4	74
105	A Genetic Variant in TGFBR3-CDC7 Is Associated with Visual Field Progression in Primary Open-Angle Glaucoma Patients from Singapore. <i>Ophthalmology</i> , 2015, 122, 2416-2422.	2.5	20
106	Impact of Measurement Error on Testing Genetic Association with Quantitative Traits. <i>PLoS ONE</i> , 2014, 9, e87044.	1.1	12
107	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.	1.4	28
108	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.	1.4	192

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109	ABCC5, a Gene That Influences the Anterior Chamber Depth, Is Associated with Primary Angle Closure Glaucoma. <i>PLoS Genetics</i> , 2014, 10, e1004089.	1.5	68
110	Meta-analysis of genome-wide association studies identifies novel loci that influence cupping and the glaucomatous process. <i>Nature Communications</i> , 2014, 5, 4883.	5.8	89
111	The Pathophysiology and Treatment of Glaucoma. <i>JAMA - Journal of the American Medical Association</i> , 2014, 311, 1901.	3.8	2,572
112	CMPK1 and RBP3 are associated with corneal curvature in Asian populations. <i>Human Molecular Genetics</i> , 2014, 23, 6129-6136.	1.4	22
113	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.	1.7	25
114	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
115	Relationship Between Iris Surface Features and Angle Width in Asian Eyes. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 8144-8148.	3.3	18
116	Global Prevalence of Glaucoma and Projections of Glaucoma Burden through 2040. <i>Ophthalmology</i> , 2014, 121, 2081-2090.	2.5	4,514
117	Ethnic Differences of Intraocular Pressure and Central Corneal Thickness. <i>Ophthalmology</i> , 2014, 121, 2013-2022.	2.5	78
118	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.	2.6	109
119	Common variants near ABCA1 and in PMM2 are associated with primary open-angle glaucoma. <i>Nature Genetics</i> , 2014, 46, 1115-1119.	9.4	160
120	Myopia in Asian Subjects with Primary Angle Closure. <i>Ophthalmology</i> , 2014, 121, 1566-1571.	2.5	45
121	Assessment of Iris Surface Features and Their Relationship with Iris Thickness in Asian Eyes. <i>Ophthalmology</i> , 2014, 121, 1007-1012.	2.5	37
122	Performance of the Moorfields Motion Displacement Test for Identifying Eyes with Glaucoma. <i>Ophthalmology</i> , 2014, 121, 88-92.	2.5	17
123	Can an inexperienced observer accurately plot disc contours using Heidelberg retinal Tomograph?. <i>Canadian Journal of Ophthalmology</i> , 2014, 49, 249-255.	0.4	2
124	Determinants of Posterior Corneal Biometric Measurements in a Multi-Ethnic Asian Population. <i>PLoS ONE</i> , 2014, 9, e101483.	1.1	8
125	Subgrouping of Primary Angle-Closure Suspects Based on Anterior Segment Optical Coherence Tomography Parameters. <i>Ophthalmology</i> , 2013, 120, 2525-2531.	2.5	52
126	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.	1.7	58

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127	Myopia and Glaucoma. , 2010, , 121-135.		0
128	Polymorphisms at newly identified lipid-associated loci are associated with blood lipids and cardiovascular disease in an Asian Malay population. Journal of Lipid Research, 2009, 50, 514-520.	2.0	53
129	Lack of Association Between the rs2664538 Polymorphism in the MMP-9 Gene and Primary Angle Closure Glaucoma in Singaporean Subjects. Journal of Glaucoma, 2008, 17, 257-258.	0.8	28
130	Long-term Outcomes in Fellow Eyes after Acute Primary Angle Closure in the Contralateral Eye. Ophthalmology, 2006, 113, 1087-1091.	2.5	41
131	Long-term outcomes in asians after acute primary angle closure. Ophthalmology, 2004, 111, 1464-1469.	2.5	117
132	The visual field following acute primary angle closure. Acta Ophthalmologica, 2001, 79, 298-300.	0.4	39
133	Long-term clinical course of primary angle-closure glaucoma in an Asian population. Ophthalmology, 2000, 107, 2300-2304.	2.5	188