Wai T Wong

List of Publications by Year
in descending order

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121 papers	10,113 citations	34076 52 h-index	43868 91 g-index
127 all docs	127 docs citations	127 times ranked	9360 citing authors

#	Article	IF	Citations
1	Machine Learning OCT Predictors of Progression from Intermediate Age-Related Macular Degeneration to Geographic Atrophy and Vision Loss. Ophthalmology Science, 2022, 2, 100160.	1.0	6
2	Long-term Outcomes of Adding Lutein/Zeaxanthin and Ï‰-3 Fatty Acids to the AREDS Supplements on Age-Related Macular Degeneration Progression. JAMA Ophthalmology, 2022, 140, 692.	1.4	40
3	Innate Immunity in Age-Related Macular Degeneration. Advances in Experimental Medicine and Biology, 2021, 1256, 121-141.	0.8	15
4	The microglia response to electrical overstimulation of the retina imaged under a transparent stimulus electrode. Journal of Neural Engineering, 2021, 18, 025003.	1.8	1
5	Multimodal, multitask, multiattention (M3) deep learning detection of reticular pseudodrusen: Toward automated and accessible classification of age-related macular degeneration. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1135-1148.	2.2	11
6	Local Anatomic Precursors to New-Onset Geographic Atrophy in Age-Related Macular Degeneration as Defined on OCT. Ophthalmology Retina, 2021, 5, 396-408.	1.2	8
7	Age-related macular degeneration. Nature Reviews Disease Primers, 2021, 7, 31.	18.1	340
8	Intravitreous treatment of severe ocular von <scp>Hippelâ€“Lindau</scp> disease using a combination of the <scp>VEGF</scp> inhibitor, ranibizumab and <scp>PDGF</scp> inhibitor, <scp>E10030</scp>: Results from a phase 1/2 clinical trial. Clinical and Experimental Ophthalmology, 2021, 49, 1048-1059.	1.3	5
9	CHOROIDAL THICKNESS AND VASCULARITY VARY WITH DISEASE SEVERITY AND SUBRETINAL DRUSENOID DEPOSIT PRESENCE IN NONADVANCED AGE-RELATED MACULAR DEGENERATION. Retina, 2020, 40, 632-642.	1.0	41
10	Macular Thickness in Intermediate Age-Related Macular Degeneration Is Influenced by Disease Severity and Subretinal Drusenoid Deposit Presence. , 2020, 61, 59.		18
11	Repeatability of Scotopic Sensitivity and Dark Adaptation Using a Medmont Dark-Adapted Chromatic Perimeter in Age-related Macular Degeneration. Translational Vision Science and Technology, 2020, 9, 31.	1.1	6
12	Predicting risk of late age-related macular degeneration using deep learning. Npj Digital Medicine, 2020, 3, 111.	5.7	33
13	Deep Learning Automated Detection of Reticular Pseudodrusen from Fundus Autofluorescence Images or Color Fundus Photographs in AREDS2. Ophthalmology, 2020, 127, 1674-1687.	2.5	19
14	CSF1R blockade induces macrophage ablation and results in mouse choroidal vascular atrophy and RPE disorganization. ELife, 2020, 9, .	2.8	33
15	A Deep Learning Approach for Automated Detection of Geographic Atrophy from Color Fundus Photographs. Ophthalmology, 2019, 126, 1533-1540.	2.5	55
16	Longitudinal Study of Dark Adaptation asÂaÂFunctional Outcome Measure for Age-Related Macular Degeneration. Ophthalmology, 2019, 126, 856-865.	2.5	44
17	C3- and CR3-dependent microglial clearance protects photoreceptors in retinitis pigmentosa. Journal of Experimental Medicine, 2019, 216, 1925-1943.	4.2	82
18	Age-related changes of the retinal microvasculature. PLoS ONE, 2019, 14, e0215916.	1.1	20

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19	LONGITUDINAL CHANGES IN EYES WITH HYDROXYCHLOROQUINE RETINAL TOXICITY. Retina, 2019, 39, 473-484.	1.0	25
20	Clinical-grade stem cellâ€“derived retinal pigment epithelium patch rescues retinal degeneration in rodents and pigs. Science Translational Medicine, 2019, 11, .	5.8	206
21	DeepSeeNet: A Deep Learning Model for Automated Classification of Patient-based Age-related Macular Degeneration Severity from Color Fundus Photographs. Ophthalmology, 2019, 126, 565-575.	2.5	220
22	Natural History of Drusenoid Pigment Epithelial Detachment Associated with Age-Related Macular Degeneration. Ophthalmology, 2019, 126, 261-273.	2.5	38
23	Absence of TGFÎ² signaling in retinal microglia induces retinal degeneration and exacerbates choroidal neovascularization. ELife, 2019, 8, .	2.8	75
24	A multi-task deep learning model for the classification of Age-related Macular Degeneration. AMIA Summits on Translational Science Proceedings, 2019, 2019, 505-514.	0.4	8
25	Deletion of the von Hippel-Lindau Gene in Hemangioblasts Causes Hemangioblastoma-like Lesions in Murine Retina. Cancer Research, 2018, 78, 1266-1274.	0.4	16
26	Repopulating retinal microglia restore endogenous organization and function under CX3CL1-CX3CR1 regulation. Science Advances, 2018, 4, eaap8492.	4.7	81
27	Oral Dextromethorphan for the Treatment of Diabetic Macular Edema: Results From a Phase I/II Clinical Study. Translational Vision Science and Technology, 2018, 7, 24.	1.1	5
28	Light-Dependent OCT Structure Changes in Photoreceptor Degenerative rd 10 Mouse Retina. , 2018, 59, 1084.		27
29	Microglia in the Retina: Roles in Development, Maturity, and Disease. Annual Review of Vision Science, 2018, 4, 45-77.	2.3	221
30	Optical Coherence Tomography Minimum Intensity as an Objective Measure for the Detection of Hydroxychloroquine Toxicity. , 2018, 59, 1953.		23
31	Evolution of Geographic Atrophy in Participants Treated with Ranibizumab for Neovascular Age-Related Macular Degeneration. Ophthalmology Retina, 2017, 1, 34-41.	1.2	19
32	Systemic Sunitinib Malate Treatment for Advanced Juxtapapillary Retinal Hemangioblastomas Associated with von Hippel-Lindau Disease. Ophthalmology Retina, 2017, 1, 181-187.	1.2	15
33	Microglia in the primate macula: specializations in microglial distribution and morphology with retinal position and with aging. Brain Structure and Function, 2017, 222, 2759-2771.	1.2	31
34	Tamoxifen Provides Structural and Functional Rescue in Murine Models of Photoreceptor Degeneration. Journal of Neuroscience, 2017, 37, 3294-3310.	1.7	56
35	Decreased Visual Function Scores on a Low Luminance Questionnaire Is Associated with Impaired Dark Adaptation. Ophthalmology, 2017, 124, 1332-1339.	2.5	23
36	Monocyte infiltration and proliferation reestablish myeloid cell homeostasis in the mouse retina following retinal pigment epithelial cell injury. Scientific Reports, 2017, 7, 8433.	1.6	84

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37	Photoreceptor protection via blockade of BET epigenetic readers in a murine model of inherited retinal degeneration. Journal of Neuroinflammation, 2017, 14, 14.	3.1	22
38	Optical Coherence Tomography Predictors of Risk for Progression to Non-Neovascular Atrophic Age-Related Macular Degeneration. Ophthalmology, 2017, 124, 1764-1777.	2.5	77
39	Requirement for Microglia for the Maintenance of Synaptic Function and Integrity in the Mature Retina. Journal of Neuroscience, 2016, 36, 2827-2842.	1.7	179
40	Ocular von Hippel-Lindau Disease â€“ clinical characteristics and future directions. Expert Review of Ophthalmology, 2016, 11, 329-337.	0.3	1
41	Microglial phagocytosis and activation underlying photoreceptor degeneration is regulated by CX3CL1â€CX3CR1 signaling in a mouse model of retinitis pigmentosa. Glia, 2016, 64, 1479-1491.	2.5	145
42	Optical Coherence Tomography Reflective Drusen Substructures Predict Progression to Geographic Atrophy in Age-related Macular Degeneration. Ophthalmology, 2016, 123, 2554-2570.	2.5	69
43	LONGITUDINAL STRUCTURAL CHANGES IN LATE-ONSET RETINAL DEGENERATION. Retina, 2016, 36, 2348-2356.	1.0	36
44	Aging Changes in Retinal Microglia and their Relevance to Age-related Retinal Disease. Advances in Experimental Medicine and Biology, 2016, 854, 73-78.	0.8	65
45	Microglial phagocytosis of living photoreceptors contributes to inherited retinal degeneration. EMBO Molecular Medicine, 2015, 7, 1179-1197.	3.3	340
46	Intravitreal Sirolimus for the Treatment of Geographic Atrophy: Results of a Phase I/II Clinical Trial. Investigative Ophthalmology and Visual Science, 2015, 56, 330-338.	3.3	57
47	EFFECT OF RANIBIZUMAB ON HIGH-SPEED INDOCYANINE GREEN ANGIOGRAPHY AND MINIMUM INTENSITY PROJECTION OPTICAL COHERENCE TOMOGRAPHY FINDINGS IN NEOVASCULAR AGE-RELATED MACULAR DEGENERATION. Retina, 2015, 35, 58-68.	1.0	2
48	Impairments in Dark Adaptation Are Associated with Age-Related Macular Degeneration Severity and Reticular Pseudodrusen. Ophthalmology, 2015, 122, 2053-2062.	2.5	150
49	Changes in Lens Opacities on the Age-Related Eye Disease Study Grading Scale Predict Progression to Cataract Surgery and Vision Loss. Ophthalmology, 2015, 122, 888-896.	2.5	11
50	Relationship of Central Choroidal Thickness With Age-Related Macular Degeneration Status. American Journal of Ophthalmology, 2015, 159, 617-626.e2.	1.7	77
51	7-Ketocholesterol Increases Retinal Microglial Migration, Activation and Angiogenicity: A Potential Pathogenic Mechanism Underlying Age-related Macular Degeneration. Scientific Reports, 2015, 5, 9144.	1.6	81
52	Subjective and Objective Screening Tests for HydroxychloroquineÂToxicity. Ophthalmology, 2015, 122, 356-366.	2.5	58
53	Retinal microglia: Just bystander or target for therapy?. Progress in Retinal and Eye Research, 2015, 45, 30-57.	7.3	433
54	Modeling Photo-Bleaching Kinetics to Create High Resolution Maps of Rod Rhodopsin in the Human Retina. PLoS ONE, 2015, 10, e0131881.	1.1	5

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55	Image Scaling Difference Between a Confocal Scanning Laser Ophthalmoscope and a Flash Fundus Camera. Ophthalmic Surgery Lasers and Imaging Retina, 2015, 46, 872-879.	0.4	5
56	Macroglia-Microglia Interactions via TSPO Signaling Regulates Microglial Activation in the Mouse Retina. Journal of Neuroscience, 2014, 34, 3793-3806.	1.7	176
57	Epidemiology of Epiretinal Membrane in aÂLarge Cohort of Patients with Uveitis. Ophthalmology, 2014, 121, 2393-2398.	2.5	56
58	Secondary Analyses of the Effects of Lutein/Zeaxanthin on Age-Related Macular Degeneration Progression. JAMA Ophthalmology, 2014, 132, 142.	1.4	330
59	Vascular Associations and Dynamic Process Motility in Perivascular Myeloid Cells of the Mouse Choroid: Implications for Function and Senescent Change. , 2014, 55, 1787.		35
60	Microglia-MÃ¼ller Cell Interactions in the Retina. Advances in Experimental Medicine and Biology, 2014, 801, 333-338.	0.8	98
61	Deletion of Aryl Hydrocarbon Receptor AHR in Mice Leads to Subretinal Accumulation of Microglia and RPE Atrophy. , 2014, 55, 6031.		67
62	Gene expression changes in aging retinal microglia: relationship to microglial support functions and regulation of activation. Neurobiology of Aging, 2013, 34, 2310-2321.	1.5	100
63	A2E accumulation influences retinal microglial activation and complement regulation. Neurobiology of Aging, 2013, 34, 943-960.	1.5	87
64	Drusen Regression is Associated With Local Changes in Fundus Autofluorescence in Intermediate Age-Related Macular Degeneration. American Journal of Ophthalmology, 2013, 156, 532-542.e1.	1.7	25
65	Spectral-Domain Optical Coherence Tomography Characteristics of Intermediate Age-related Macular Degeneration. Ophthalmology, 2013, 120, 140-150.	2.5	107
66	Lutein/Zeaxanthin for the Treatment of Age-Related Cataract. JAMA Ophthalmology, 2013, 131, 843.	1.4	119
67	COMPARISON OF STANDARDIZED CLINICAL CLASSIFICATION WITH FUNDUS PHOTOGRAPH GRADING FOR THE ASSESSMENT OF DIABETIC RETINOPATHY AND DIABETIC MACULAR EDEMA SEVERITY. Retina, 2013, 33, 1393-1399.	1.0	37
68	Treatment of Geographic Atrophy With Subconjunctival Sirolimus: Results of a Phase I/II Clinical Trial. , 2013, 54, 2941.		65
69	PREVALENCE AND PROGRESSION OF PIGMENT CLUMPING ASSOCIATED WITH IDIOPATHIC MACULAR TELANGIECTASIA TYPE 2. Retina, 2013, 33, 762-770.	1.0	14
70	Perivascular Mural Cells of the Mouse Choroid Demonstrate Morphological Diversity That Is Correlated to Vasoregulatory Function. PLoS ONE, 2013, 8, e53386.	1.1	22
71	Microglial aging in the healthy CNS: phenotypes, drivers, and rejuvenation. Frontiers in Cellular Neuroscience, 2013, 7, 22.	1.8	197
72	Microglia in the Outer Retina and Their Relevance to Pathogenesis of Age-Related Macular Degeneration. Advances in Experimental Medicine and Biology, 2012, 723, 37-42.	0.8	52

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73	Fundus Autofluorescence Patterns in Stargardt Disease Over Timeâ€”Reply. JAMA Ophthalmology, 2012, 130, 1354.	2.6	3
74	TREATMENT OF NONNEOVASCULAR IDIOPATHIC MACULAR TELANGIECTASIA TYPE 2 WITH INTRAVITREAL RANIBIZUMAB. Retina, 2012, 32, 996-1006.	1.0	36
75	Centrifugal Expansion of Fundus Autofluorescence Patterns in Stargardt Disease Over Time. JAMA Ophthalmology, 2012, 130, 171.	2.6	80
76	Proliferative and Survival Effects of PUMA Promote Angiogenesis. Cell Reports, 2012, 2, 1272-1285.	2.9	28
77	Longitudinal Analysis of Retinal Hemangioblastomatosis and Visual Function in Ocular von Hippel-Lindau Disease. Ophthalmology, 2012, 119, 2622-2630.	2.5	38
78	Preservation of Cone Photoreceptors after a Rapid yet Transient Degeneration and Remodeling in Cone-OnlyNrl^{â^'/â^'}Mouse Retina. Journal of Neuroscience, 2012, 32, 528-541.	1.7	51
79	Spatial Correlation between Hyperpigmentary Changes on Color Fundus Photography and Hyperreflective Foci on SDOCT in Intermediate AMD. , 2012, 53, 4626.		80
80	Oral Minocycline for the Treatment of Diabetic Macular Edema (DME): Results of a Phase I/II Clinical Study. , 2012, 53, 3865.		94
81	Minocycline Attenuates Photoreceptor Degeneration in a Mouse Model of Subretinal Hemorrhage. American Journal of Pathology, 2011, 179, 1265-1277.	1.9	44
82	Investigation of the role of neutralizing antibodies against bevacizumab as mediators of tachyphylaxis. Acta Ophthalmologica, 2011, 89, e206-e207.	0.6	50
83	Microglial Morphology and Dynamic Behavior Is Regulated by Ionotropic Glutamatergic and GABAergic Neurotransmission. PLoS ONE, 2011, 6, e15973.	1.1	278
84	FINASTERIDE FOR CHRONIC CENTRAL SEROUS CHORIORETINOPATHY. Retina, 2011, 31, 766-771.	1.0	66
85	Treatment for atrophic macular degeneration. Current Opinion in Ophthalmology, 2011, 22, 190-193.	1.3	25
86	Ageâ€related alterations in the dynamic behavior of microglia. Aging Cell, 2011, 10, 263-276.	3.0	372
87	Subconjunctival sirolimus in the treatment of diabetic macular edema. Graefe's Archive for Clinical and Experimental Ophthalmology, 2011, 249, 1627-33.	1.0	38
88	Adaptive MÃ¼ller cell responses to microglial activation mediate neuroprotection and coordinate inflammation in the retina. Journal of Neuroinflammation, 2011, 8, 173.	3.1	187
89	Naloxone Ameliorates Retinal Lesions inCcl2/Cx3cr1Double-Deficient Mice via Modulation of Microglia. , 2011, 52, 2897.		32
90	Changes in Retinal Sensitivity in Geographic Atrophy Progression as Measured by Microperimetry. , 2011, 52, 1119.		90

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91	Regulation of microglia by ionotropic glutamatergic and GABAergic neurotransmission. Neuron Glia Biology, 2011, 7, 41-46.	2.0	27
92	FUNDUS AUTOFLUORESCENCE CHANGES IN CYTOMEGALOVIRUS RETINITIS. Retina, 2010, 30, 42-50.	1.0	76
93	RELATIONSHIP BETWEEN PHOTORECEPTOR OUTER SEGMENT LENGTH AND VISUAL ACUITY IN DIABETIC MACULAR EDEMA. Retina, 2010, 30, 63-70.	1.0	141
94	Complementary angiographic and autofluorescence findings in pseudoxanthoma elasticum. International Ophthalmology, 2010, 30, 77-79.	0.6	8
95	Treatment of Geographic Atrophy by the Topical Administration of OT-551: Results of a Phase II Clinical Trial. , 2010, 51, 6131.		104
96	Foveal Hypoautofluorescence: Does It Correlate to Visual Acuity in White Dot Syndromes?â€"Reply. JAMA Ophthalmology, 2010, 128, 1629.	2.6	0
97	Genotype-Phenotype Correlation in Ocular von Hippel-Lindau (VHL) Disease: The Effect of Missense Mutation Position on Ocular VHL Phenotype. , 2010, 51, 4464.		33
98	Fundus Autofluorescence Imaging of the White Dot Syndromes. JAMA Ophthalmology, 2010, 128, 46.	2.6	116
99	Natural History of Drusenoid Pigment Epithelial Detachment in Age-Related Macular Degeneration: Age-Related Eye Disease Study Report No. 28. Ophthalmology, 2010, 117, 489-499.	2.5	142
100	Gallium scintigraphy in the investigation of retinal inflammatory vasculopathy. Acta Ophthalmologica, 2010, 88, e291-2.	0.6	0
101	Regulation of Dynamic Behavior of Retinal Microglia by CX3CR1 Signaling. , 2009, 50, 4444.		165
102	Relentless Placoid Chorioretinitis Associated With Central Nervous System Lesions Treated With Mycophenolate Mofetil. JAMA Ophthalmology, 2009, 127, 341.	2.6	21
103	Retinal vascular repair and neovascularization are not dependent on CX3CR1 signaling in a model of ischemic retinopathy. Experimental Eye Research, 2009, 88, 1004-1013.	1.2	30
104	Ocular and Systemic Autoimmunity after Successful Tumor-Infiltrating Lymphocyte Immunotherapy for Recurrent, Metastatic Melanoma. Ophthalmology, 2009, 116, 981-989.e1.	2.5	88
105	Fundus Autofluorescence in Type 2 Idiopathic Macular Telangiectasia: Correlation with Optical Coherence Tomography and Microperimetry. American Journal of Ophthalmology, 2009, 148, 573-583.	1.7	88
106	TACHYPHYLAXIS AFTER INTRAVITREAL BEVACIZUMAB FOR EXUDATIVE AGE-RELATED MACULAR DEGENERATION. Retina, 2009, 29, 723-731.	1.0	170
107	Microglia in the Mouse Retina Alter the Structure and Function of Retinal Pigmented Epithelial Cells: A Potential Cellular Interaction Relevant to AMD. PLoS ONE, 2009, 4, e7945.	1.1	178
108	Clinical Characterization of Retinal Capillary Hemangioblastomas in a Large Population of Patients with von Hippelâ€"Lindau Disease. Ophthalmology, 2008, 115, 181-188.	2.5	154

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109	Clinical Course of Retrobulbar Hemangioblastomas in von Hippelâ€“Lindau Disease. Ophthalmology, 2008, 115, 1382-1389.	2.5	22
110	Intravitreal Ranibizumab Therapy for Retinal Capillary Hemangioblastoma Related to von Hippel-Lindau Disease. Ophthalmology, 2008, 115, 1957-1964.e3.	2.5	99
111	Evaluation of Time Domain and Spectral Domain Optical Coherence Tomography in the Measurement of Diabetic Macular Edema. , 2008, 49, 4290.		176
112	Retinal Vascular Proliferation as an Ocular Manifestation of von Hippel-Lindau Disease. JAMA Ophthalmology, 2008, 126, 637.	2.6	30
113	Ocular von Hippelâ€“Lindau disease: clinical update and emerging treatments. Current Opinion in Ophthalmology, 2008, 19, 213-217.	1.3	53
114	Ex Vivo Dynamic Imaging of Retinal Microglia Using Time-Lapse Confocal Microscopy. Investigative Ophthalmology and Visual Science, 2008, 49, 4169-4176.	3.3	170
115	Oral Supplementation of Lutein/Zeaxanthin and Omega-3 Long Chain Polyunsaturated Fatty Acids in Persons Aged 60 Years or Older, with or without AMD. , 2008, 49, 3864.		45
116	Genotype-Phenotype Correlation in von Hippel-Lindau Disease With Retinal Angiomatosis. JAMA Ophthalmology, 2007, 125, 239.	2.6	70
117	Changing specificity of neurotransmitter regulation of rapid dendritic remodeling during synaptogenesis. Nature Neuroscience, 2001, 4, 351-352.	7.1	89
118	Rapid dendritic movements during synapse formation and rearrangement. Current Opinion in Neurobiology, 2000, 10, 118-124.	2.0	116
119	Rapid Dendritic Remodeling in the Developing Retina: Dependence on Neurotransmission and Reciprocal Regulation by Rac and Rho. Journal of Neuroscience, 2000, 20, 5024-5036.	1.7	226
120	Developmental Changes in the Neurotransmitter Regulation of Correlated Spontaneous Retinal Activity. Journal of Neuroscience, 2000, 20, 351-360.	1.7	133
121	Developmentally Regulated Spontaneous Activity in the Embryonic Chick Retina. Journal of Neuroscience, 1998, 18, 8839-8852.	1.7	168