

Gadi Wollstein

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,876
citations

28
h-index

52
g-index

100
ext. papers

3,444
ext. citations

5.4
avg, IF

4.96
L-index

#	Paper	IF	Citations
93	In Vivo Sublayer Analysis of Human Retinal Inner Plexiform Layer Obtained by Visible-Light Optical Coherence Tomography. <i>2022</i> , 63, 18		5
92	Virtual Reality Oculokinetic Perimetry Test Reproducibility and Relationship to Conventional Perimetry and OCT. <i>Ophthalmology Science</i> , 2022 , 2, 100105		1
91	3D Microstructure of the Healthy Non-Human Primate Lamina Cribrosa by Optical Coherence Tomography Imaging.. <i>Translational Vision Science and Technology</i> , 2022 , 11, 15	3.3	1
90	Comprehensive Glaucoma Imaging 2022 , 2099-2119		
89	Microstructural Deformations Within the Depth of the Lamina Cribrosa in Response to Acute In Vivo Intraocular Pressure Modulation 2022 , 63, 25		1
88	Somatosensory Impairments, Falls History and Fear of Falling in Glaucoma - A Survey Study Approach. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2021 , 65, 11-15	0.4	
87	AI and Glaucoma 2021 , 113-125		
86	Sensory integration abilities for balance in glaucoma, a preliminary study. <i>Scientific Reports</i> , 2021 , 11, 19691	4.9	
85	Interplay between intraocular and intracranial pressure effects on the optic nerve head in vivo. <i>Experimental Eye Research</i> , 2021 , 213, 108809	3.7	3
84	ASSESSING THE ABILITY OF PREOPERATIVE QUANTITATIVE SPECTRAL-DOMAIN OPTICAL COHERENCE TOMOGRAPHY CHARACTERISTICS TO PREDICT VISUAL OUTCOME IN IDIOPATHIC MACULAR HOLE SURGERY. <i>Retina</i> , 2021 , 41, 29-36	3.6	1
83	Citicoline Modulates Glaucomatous Neurodegeneration Through Intraocular Pressure-Independent Control. <i>Neurotherapeutics</i> , 2021 , 18, 1339-1359	6.4	6
82	Retinal blood flow reduction in normal-tension glaucoma with single-hemifield damage by Doppler optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2021 , 105, 124-130	5.5	6
81	Estimating Global Visual Field Indices in Glaucoma by Combining Macula and Optic Disc OCT Scans Using 3-Dimensional Convolutional Neural Networks. <i>Ophthalmology Glaucoma</i> , 2021 , 4, 102-112	2.2	7
80	Longitudinal changes in the macula and optic nerve in familial dysautonomia. <i>Journal of Neurology</i> , 2021 , 268, 1402-1409	5.5	
79	Determining the Location of the Fovea Centralis Via En-Face SLO and Cross-Sectional OCT Imaging in Patients Without Retinal Pathology. <i>Translational Vision Science and Technology</i> , 2021 , 10, 25	3.3	
78	Diffusion Tensor Imaging of Visual Pathway Abnormalities in Five Glaucoma Animal Models 2021 , 62, 21		2
77	Oral Scutellarin Treatment Ameliorates Retinal Thinning and Visual Deficits in Experimental Glaucoma. <i>Frontiers in Medicine</i> , 2021 , 8, 681169	4.9	2

76	Optical Coherence Tomography and Glaucoma. <i>Annual Review of Vision Science</i> , 2021 , 7, 693-726	8.2	2
75	Attention-Guided 3D-CNN Framework for Glaucoma Detection and Structural-Functional Association Using Volumetric Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 3421-3430	7.2	10
74	Forecasting Retinal Nerve Fiber Layer Thickness from Multimodal Temporal Data Incorporating OCT Volumes. <i>Ophthalmology Glaucoma</i> , 2020 , 3, 14-24	2.2	1
73	Comprehensive Glaucoma Imaging 2020 , 1-21		
72	OCT Technique: Past, Present and Future 2020 , 7-31		1
71	Designing visible-light optical coherence tomography towards clinics. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019 , 9, 769-781	3.6	11
70	Widespread brain reorganization perturbs visuomotor coordination in early glaucoma. <i>Scientific Reports</i> , 2019 , 9, 14168	4.9	15
69	Cholinergic nervous system and glaucoma: From basic science to clinical applications. <i>Progress in Retinal and Eye Research</i> , 2019 , 72, 100767	20.5	45
68	Association of a Primary Open-Angle Glaucoma Genetic Risk Score With Earlier Age at Diagnosis. <i>JAMA Ophthalmology</i> , 2019 , 137, 1190-1194	3.9	15
67	A feature agnostic approach for glaucoma detection in OCT volumes. <i>PLoS ONE</i> , 2019 , 14, e0219126	3.7	75
66	Evaluating Glaucoma Treatment Effect on Intraocular Pressure Reduction Using Propensity Score Weighted Regression. <i>Scientific Reports</i> , 2019 , 9, 15496	4.9	2
65	Reply. <i>Ophthalmology</i> , 2019 , 126, e17	7.3	
64	Clinical Prediction Performance of Glaucoma Progression Using a 2-Dimensional Continuous-Time Hidden Markov Model with Structural and Functional Measurements. <i>Ophthalmology</i> , 2018 , 125, 1354-1361	7.3	7
63	Age-related Changes in Eye, Brain and Visuomotor Behavior in the DBA/2J Mouse Model of Chronic Glaucoma. <i>Scientific Reports</i> , 2018 , 8, 4643	4.9	17
62	Can Macula and Optic Nerve Head Parameters Detect Glaucoma Progression in Eyes with Advanced Circumpapillary Retinal Nerve Fiber Layer Damage?. <i>Ophthalmology</i> , 2018 , 125, 1907-1912	7.3	35
61	Increased Inner Retinal Layer Reflectivity in Eyes With Acute CRVO Correlates With Worse Visual Outcomes at 12 Months 2018 , 59, 3503-3510		7
60	Tortuous Pore Path Through the Glaucomatous Lamina Cribrosa. <i>Scientific Reports</i> , 2018 , 8, 7281	4.9	11
59	Testosterone Pathway Genetic Polymorphisms in Relation to Primary Open-Angle Glaucoma: An Analysis in Two Large Datasets 2018 , 59, 629-636		9

58	Retinal optical coherence tomography image enhancement via deep learning. <i>Biomedical Optics Express</i> , 2018 , 9, 6205-6221	3.5	50
57	Analysis of Morphological Changes of Lamina Cribrosa Under Acute Intraocular Pressure Change. <i>Lecture Notes in Computer Science</i> , 2018 , 11071, 364-371	0.9	1
56	Seeing the Hidden Lamina: Effects of Exsanguination on the Optic Nerve Head 2018 , 59, 2564-2575		5
55	Reply. <i>Ophthalmology</i> , 2017 , 124, e24	7.3	1
54	Adaptive optics optical coherence tomography in glaucoma. <i>Progress in Retinal and Eye Research</i> , 2017 , 57, 76-88	20.5	34
53	Thick Prelaminar Tissue Decreases Lamina Cribrosa Visibility 2017 , 58, 1751-1757		10
52	Genetic correlations between intraocular pressure, blood pressure and primary open-angle glaucoma: a multi-cohort analysis. <i>European Journal of Human Genetics</i> , 2017 , 25, 1261-1267	5.3	9
51	Location of the Central Retinal Vessel Trunk in the Laminar and Prelaminar Tissue of Healthy and Glaucomatous Eyes. <i>Scientific Reports</i> , 2017 , 7, 9930	4.9	8
50	The Future of Imaging in Detecting Glaucoma Progression. <i>Ophthalmology</i> , 2017 , 124, S76-S82	7.3	11
49	Formalin Fixation and Cryosectioning Cause Only Minimal Changes in Shape or Size of Ocular Tissues. <i>Scientific Reports</i> , 2017 , 7, 12065	4.9	26
48	In-vivo effects of intraocular and intracranial pressures on the lamina cribrosa microstructure. <i>PLoS ONE</i> , 2017 , 12, e0188302	3.7	30
47	Signal Normalization Reduces Image Appearance Disparity Among Multiple Optical Coherence Tomography Devices. <i>Translational Vision Science and Technology</i> , 2017 , 6, 13	3.3	1
46	Influence diagnostics for multivariate growth curve models 2017 , 51, 1-16		
45	Structural and Functional Evaluations for the Early Detection of Glaucoma. <i>Expert Review of Ophthalmology</i> , 2016 , 11, 367-376	1.5	14
44	Non-invasive MRI Assessments of Tissue Microstructures and Macromolecules in the Eye upon Biomechanical or Biochemical Modulation. <i>Scientific Reports</i> , 2016 , 6, 32080	4.9	27
43	Retinal Structures and Visual Cortex Activity are Impaired Prior to Clinical Vision Loss in Glaucoma. <i>Scientific Reports</i> , 2016 , 6, 31464	4.9	55
42	Structural and functional correlates of visual field asymmetry in the human brain by diffusion kurtosis MRI and functional MRI. <i>NeuroReport</i> , 2016 , 27, 1225-31	1.7	10
41	Glaucoma Structural and Functional Progression in American and Korean Cohorts. <i>Ophthalmology</i> , 2016 , 123, 783-8	7.3	16

40	Genome-wide association analysis identifies TXNRD2, ATXN2 and FOXC1 as susceptibility loci for primary open-angle glaucoma. <i>Nature Genetics</i> , 2016 , 48, 189-94	36.3	159
39	A Problem of Proportions in OCT-Based Morphometry and a Proposed Solution 2016 , 57, 484-5		10
38	Optic Nerve Head Measurements With Optical Coherence Tomography: A Phantom-Based Study Reveals Differences Among Clinical Devices 2016 , 57, OCT413-20		9
37	Decreased Lamina Cribrosa Beam Thickness and Pore Diameter Relative to Distance From the Central Retinal Vessel Trunk 2016 , 57, 3088-92		8
36	Virtual Averaging Making Nonframe-Averaged Optical Coherence Tomography Images Comparable to Frame-Averaged Images. <i>Translational Vision Science and Technology</i> , 2016 , 5, 1	3.3	8
35	Clinical Utility of Optical Coherence Tomography in Glaucoma 2016 , 57, OCT556-67		52
34	A Common Variant in MIR182 Is Associated With Primary Open-Angle Glaucoma in the NEIGHBORHOOD Consortium 2016 , 57, 4528-4535		31
33	Assessing the Association of Mitochondrial Genetic Variation With Primary Open-Angle Glaucoma Using Gene-Set Analyses 2016 , 57, 5046-5052		29
32	New developments in optical coherence tomography. <i>Current Opinion in Ophthalmology</i> , 2015 , 26, 110-55.1		30
31	Evaluating glaucoma damage: emerging imaging technologies. <i>Expert Review of Ophthalmology</i> , 2015 , 10, 183-195	1.5	4
30	Agreement among graders on Heidelberg retina tomograph (HRT) topographic change analysis (TCA) glaucoma progression interpretation. <i>British Journal of Ophthalmology</i> , 2015 , 99, 519-23	5.5	7
29	Trabecular Meshwork Response to Pressure Elevation in the Living Human Eye. <i>Journal of Visualized Experiments</i> , 2015 , e52611	1.6	6
28	Histogram Matching Extends Acceptable Signal Strength Range on Optical Coherence Tomography Images 2015 , 56, 3810-9		11
27	In Vivo Evaluation of White Matter Integrity and Anterograde Transport in Visual System After Excitotoxic Retinal Injury With Multimodal MRI and OCT 2015 , 56, 3788-800		24
26	Cardiac-Gated En Face Doppler Measurement of Retinal Blood Flow Using Swept-Source Optical Coherence Tomography at 100,000 Axial Scans per Second 2015 , 56, 2522-30		15
25	Polarization microscopy for characterizing fiber orientation of ocular tissues. <i>Biomedical Optics Express</i> , 2015 , 6, 4705-18	3.5	59
24	OCT for glaucoma diagnosis, screening and detection of glaucoma progression. <i>British Journal of Ophthalmology</i> , 2014 , 98 Suppl 2, ii15-9	5.5	222
23	Association of CAV1/CAV2 genomic variants with primary open-angle glaucoma overall and by gender and pattern of visual field loss. <i>Ophthalmology</i> , 2014 , 121, 508-16	7.3	73

22	Gold nanorods as a contrast agent for Doppler optical coherence tomography. <i>PLoS ONE</i> , 2014 , 9, e906907	3.7	20
21	Reproducibility of in-vivo OCT measured three-dimensional human lamina cribrosa microarchitecture. <i>PLoS ONE</i> , 2014 , 9, e95526	3.7	20
20	In vivo three-dimensional characterization of the healthy human lamina cribrosa with adaptive optics spectral-domain optical coherence tomography 2014 , 55, 6459-66		46
19	In vivo assessment of aqueous humor dynamics upon chronic ocular hypertension and hypotensive drug treatment using gadolinium-enhanced MRI 2014 , 55, 3747-57		25
18	Characterisation of Schlemm's canal cross-sectional area. <i>British Journal of Ophthalmology</i> , 2014 , 98 Suppl 2, ii10-4	5.5	24
17	Repeatability of in vivo 3D lamina cribrosa microarchitecture using adaptive optics spectral domain optical coherence tomography. <i>Biomedical Optics Express</i> , 2014 , 5, 1114-23	3.5	35
16	DNA copy number variants of known glaucoma genes in relation to primary open-angle glaucoma. <i>Investigative Ophthalmology and Visual Science</i> , 2014 , 55, 8251-8		24
15	Imaging of the optic nerve and retinal nerve fiber layer: an essential part of glaucoma diagnosis and monitoring. <i>Survey of Ophthalmology</i> , 2014 , 59, 458-67	6.1	27
14	Automated lamina cribrosa microstructural segmentation in optical coherence tomography scans of healthy and glaucomatous eyes. <i>Biomedical Optics Express</i> , 2013 , 4, 2596-608	3.5	45
13	Imaging of the lamina cribrosa in glaucoma: perspectives of pathogenesis and clinical applications. <i>Current Eye Research</i> , 2013 , 38, 903-9	2.9	45
12	In vivo lamina cribrosa micro-architecture in healthy and glaucomatous eyes as assessed by optical coherence tomography 2013 , 54, 8270-4		72
11	Longitudinal modeling of glaucoma progression using 2-dimensional continuous-time hidden Markov model. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 444-51	0.9	14
10	Macular assessment using optical coherence tomography for glaucoma diagnosis. <i>British Journal of Ophthalmology</i> , 2012 , 96, 1452-5	5.5	57
9	Retinal nerve fibre layer and visual function loss in glaucoma: the tipping point. <i>British Journal of Ophthalmology</i> , 2012 , 96, 47-52	5.5	116
8	Current Imaging Approaches and Further Imaging Needs in Clinical Medicine: A Clinician's Perspective 2011 , 47-83		
7	Effects of age on optical coherence tomography measurements of healthy retinal nerve fiber layer, macula, and optic nerve head. <i>Ophthalmology</i> , 2009 , 116, 1119-24	7.3	152
6	Local quality assessment for optical coherence tomography 2008 ,		3
5	Effect of corneal drying on optical coherence tomography. <i>Ophthalmology</i> , 2006 , 113, 985-991	7.3	71

4	Ultrahigh-resolution optical coherence tomography in glaucoma. <i>Ophthalmology</i> , 2005 , 112, 229-37	7.3	69
3	Comparison of three optical coherence tomography scanning areas for detection of glaucomatous damage. <i>American Journal of Ophthalmology</i> , 2005 , 139, 39-43	4.9	201
2	Optical coherence tomography longitudinal evaluation of retinal nerve fiber layer thickness in glaucoma. <i>JAMA Ophthalmology</i> , 2005 , 123, 464-70		277
1	Optical coherence tomography (OCT) macular and peripapillary retinal nerve fiber layer measurements and automated visual fields. <i>American Journal of Ophthalmology</i> , 2004 , 138, 218-25	4.9	167