

Thomas S Hwang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2650959/thomas-s-hwang-publications-by-year.pdf>
Version: 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84 papers	4,263 citations	32 h-index	64 g-index
88 ext. papers	5,105 ext. citations	4.4 avg, IF	5.5 L-index

#	Paper	IF	Citations
84	A deep learning network for classifying arteries and veins in montaged wide-field OCT angiograms. <i>Ophthalmology Science</i> , 2022 , 100149		0
83	An Open-Source Deep Learning Network for Reconstruction of High-Resolution OCT Angiograms of Retinal Intermediate and Deep Capillary Plexuses. <i>Translational Vision Science and Technology</i> , 2021 , 10, 13	3.3	2
82	Artificial intelligence in OCT angiography. <i>Progress in Retinal and Eye Research</i> , 2021 , 85, 100965	20.5	13
81	Comparison of Central Macular Fluid Volume With Central Subfield Thickness in Patients With Diabetic Macular Edema Using Optical Coherence Tomography Angiography. <i>JAMA Ophthalmology</i> , 2021 , 139, 734-741	3.9	3
80	Local Anatomic Precursors to New-Onset Geographic Atrophy in Age-Related Macular Degeneration as Defined on OCT. <i>Ophthalmology Retina</i> , 2021 , 5, 396-408	3.8	2
79	Quantification of Nonperfusion Area in Montaged Widefield OCT Angiography Using Deep Learning in Diabetic Retinopathy. <i>Ophthalmology Science</i> , 2021 , 1, 100027		4
78	Plexus-specific retinal vascular anatomy and pathologies as seen by projection-resolved optical coherence tomographic angiography. <i>Progress in Retinal and Eye Research</i> , 2021 , 80, 100878	20.5	32
77	DcardNet: Diabetic Retinopathy Classification at Multiple Levels Based on Structural and Angiographic Optical Coherence Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1859-1870	5	14
76	Normative intercapillary distance and vessel density data in the temporal retina assessed by wide-field spectral-domain optical coherence tomography angiography. <i>Experimental Biology and Medicine</i> , 2021 , 246, 2230-2237	3.7	1
75	Deep learning-based signal-independent assessment of macular avascular area on 68 mm optical coherence tomography angiogram in diabetic retinopathy: a comparison to instrument-embedded software. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	1
74	Prospective evaluation of optical coherence tomography for disease detection in the Casey mobile eye clinic. <i>Experimental Biology and Medicine</i> , 2021 , 246, 2214-2221	3.7	2
73	Geographic Atrophy Progression Is Associated With Choriocapillaris Flow Deficits Measured With Optical Coherence Tomographic Angiography. 2021 , 62, 28		1
72	Robust non-perfusion area detection in three retinal plexuses using convolutional neural network in OCT angiography. <i>Biomedical Optics Express</i> , 2020 , 11, 330-345	3.5	16
71	High-resolution wide-field OCT angiography with a self-navigation method to correct microsaccades and blinks. <i>Biomedical Optics Express</i> , 2020 , 11, 3234-3245	3.5	15
70	Reconstruction of high-resolution 68-mm OCT angiograms using deep learning. <i>Biomedical Optics Express</i> , 2020 , 11, 3585-3600	3.5	17
69	Current Models for Inpatient and Emergency Room Ophthalmology Consultation in U.S. Residency Programs. <i>Journal of Academic Ophthalmology (2017)</i> , 2020 , 12, e171-e174	0.7	
68	Optical Coherence Tomography Angiography Avascular Area Association With 1-Year Treatment Requirement and Disease Progression in Diabetic Retinopathy. <i>American Journal of Ophthalmology</i> , 2020 , 217, 268-277	4.9	6

67	DETECTION OF CLINICALLY UNSUSPECTED RETINAL NEOVASCULARIZATION WITH WIDE-FIELD OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. <i>Retina</i> , 2020 , 40, 891-897	3.6	32
66	Automated Segmentation of Retinal Fluid Volumes From Structural and Angiographic Optical Coherence Tomography Using Deep Learning. <i>Translational Vision Science and Technology</i> , 2020 , 9, 54	3.3	16
65	Detection of Reduced Retinal Vessel Density in Eyes with Geographic Atrophy Secondary to Age-Related Macular Degeneration Using Projection-Resolved Optical Coherence Tomography Angiography. <i>American Journal of Ophthalmology</i> , 2020 , 209, 206-212	4.9	13
64	Phenotypic Spectrum of Pentosan Polysulfate Sodium-Associated Maculopathy: A Multicenter Study. <i>JAMA Ophthalmology</i> , 2019 , 137, 1275-1282	3.9	48
63	Teaching Ophthalmology Residents Clinical Optics Via a Flipped Classroom Curriculum. <i>Journal of Academic Ophthalmology (2017)</i> , 2019 , 11, e16-e21	0.7	1
62	Changes in Electronic Health Record Use Time and Documentation over the Course of a Decade. <i>Ophthalmology</i> , 2019 , 126, 783-791	7.3	10
61	Medicare Incentive Payments to United States Ophthalmologists for Use of Electronic Health Records: 2011-2016. <i>Ophthalmology</i> , 2019 , 126, 928-934	7.3	1
60	Detection of Nonexudative Choroidal Neovascularization and Progression to Exudative Choroidal Neovascularization Using OCT Angiography. <i>Ophthalmology Retina</i> , 2019 , 3, 629-636	3.8	22
59	Invariant features-based automated registration and montage for wide-field OCT angiography. <i>Biomedical Optics Express</i> , 2019 , 10, 120-136	3.5	10
58	Development and validation of a deep learning algorithm for distinguishing the nonperfusion area from signal reduction artifacts on OCT angiography. <i>Biomedical Optics Express</i> , 2019 , 10, 3257-3268	3.5	31
57	Three-dimensional structural and angiographic evaluation of foveal ischemia in diabetic retinopathy: method and validation. <i>Biomedical Optics Express</i> , 2019 , 10, 3522-3532	3.5	15
56	Culture-Proven Endophthalmitis After Intravitreal Injection: A 10-Year Analysis. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2019 , 50, 33-38	1.4	6
55	Comparison of Monthly vs Treat-and-Extend Regimens for Individuals With Macular Edema Who Respond Well to Anti-Vascular Endothelial Growth Factor Medications: Secondary Outcomes From the SCORE2 Randomized Clinical Trial. <i>JAMA Ophthalmology</i> , 2018 , 136, 337-345	3.9	17
54	Quantitative Evaluation of Choroidal Neovascularization under Pro Re Nata Anti-Vascular Endothelial Growth Factor Therapy with OCT Angiography. <i>Ophthalmology Retina</i> , 2018 , 2, 931-941	3.8	18
53	Plexus-Specific Detection of Retinal Vascular Pathologic Conditions with Projection-Resolved OCT Angiography. <i>Ophthalmology Retina</i> , 2018 , 2, 816-826	3.8	20
52	Assessing total retinal blood flow in diabetic retinopathy using multiplane en face Doppler optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2018 , 102, 126-130	5.5	11
51	Evaluation of Automatically Quantified Foveal Avascular Zone Metrics for Diagnosis of Diabetic Retinopathy Using Optical Coherence Tomography Angiography 2018 , 59, 2212-2221		67
50	Automated Quantification of Nonperfusion Areas in 3 Vascular Plexuses With Optical Coherence Tomography Angiography in Eyes of Patients With Diabetes. <i>JAMA Ophthalmology</i> , 2018 , 136, 929-936	3.9	59

49	MEDnet, a neural network for automated detection of avascular area in OCT angiography. <i>Biomedical Optics Express</i> , 2018 , 9, 5147-5158	3.5	43
48	Maximum value projection produces better OCT angiograms than mean value projection. <i>Biomedical Optics Express</i> , 2018 , 9, 6412-6424	3.5	18
47	Effect of Adding Dexamethasone to Continued Ranibizumab Treatment in Patients With Persistent Diabetic Macular Edema: A DRCR Network Phase 2 Randomized Clinical Trial. <i>JAMA Ophthalmology</i> , 2018 , 136, 29-38	3.9	121
46	Automated segmentation of retinal layer boundaries and capillary plexuses in wide-field optical coherence tomographic angiography. <i>Biomedical Optics Express</i> , 2018 , 9, 4429-4442	3.5	33
45	Classification of Choroidal Neovascularization Using Projection-Resolved Optical Coherence Tomographic Angiography 2018 , 59, 4285-4291		20
44	Automated three-dimensional registration and volume rebuilding for wide-field angiographic and structural optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2017 , 22, 26001	3.5	13
43	Optical coherence tomographic angiography of choroidal neovascularization ill-defined with fluorescein angiography. <i>British Journal of Ophthalmology</i> , 2017 , 101, 45-50	5.5	18
42	Detailed Vascular Anatomy of the Human Retina by Projection-Resolved Optical Coherence Tomography Angiography. <i>Scientific Reports</i> , 2017 , 7, 42201	4.9	406
41	Wide-Field OCT Angiography Investigation of the Relationship Between Radial Peripapillary Capillary Plexus Density and Nerve Fiber Layer Thickness 2017 , 58, 5188-5194		45
40	Sensitivity and Specificity of OCT Angiography to Detect Choroidal Neovascularization. <i>Ophthalmology Retina</i> , 2017 , 1, 294-303	3.8	55
39	Automated boundary detection of the optic disc and layer segmentation of the peripapillary retina in volumetric structural and angiographic optical coherence tomography. <i>Biomedical Optics Express</i> , 2017 , 8, 1306-1318	3.5	12
38	Automated detection of dilated capillaries on optical coherence tomography angiography. <i>Biomedical Optics Express</i> , 2017 , 8, 1101-1109	3.5	12
37	Reflectance-based projection-resolved optical coherence tomography angiography [Invited]. <i>Biomedical Optics Express</i> , 2017 , 8, 1536-1548	3.5	57
36	Automated drusen detection in dry age-related macular degeneration by multiple-depth, optical coherence tomography. <i>Biomedical Optics Express</i> , 2017 , 8, 5049-5064	3.5	15
35	Automated detection of photoreceptor disruption in mild diabetic retinopathy on volumetric optical coherence tomography. <i>Biomedical Optics Express</i> , 2017 , 8, 5384-5398	3.5	13
34	Optical Coherence Tomography Reflective Drusen Substructures Predict Progression to Geographic Atrophy in Age-related Macular Degeneration. <i>Ophthalmology</i> , 2016 , 123, 2554-2570	7.3	44
33	Visualization of 3 Distinct Retinal Plexuses by Projection-Resolved Optical Coherence Tomography Angiography in Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , 2016 , 134, 1411-1419	3.9	130
32	Automated Quantification of Capillary Nonperfusion Using Optical Coherence Tomography Angiography in Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , 2016 , 134, 367-73	3.9	252

31	Automated registration and enhanced processing of clinical optical coherence tomography angiography. <i>Quantitative Imaging in Medicine and Surgery</i> , 2016 , 6, 391-401	3.6	28
30	Automated volumetric segmentation of retinal fluid on optical coherence tomography. <i>Biomedical Optics Express</i> , 2016 , 7, 1577-89	3.5	54
29	Automated motion correction using parallel-strip registration for wide-field en face OCT angiogram. <i>Biomedical Optics Express</i> , 2016 , 7, 2823-36	3.5	55
28	Evaluation of artifact reduction in optical coherence tomography angiography with real-time tracking and motion correction technology. <i>Biomedical Optics Express</i> , 2016 , 7, 3905-3915	3.5	86
27	Automated Quantification of Nonperfusion in Three Retinal Plexuses Using Projection-Resolved Optical Coherence Tomography Angiography in Diabetic Retinopathy 2016 , 57, 5101-5106		87
26	Optical Coherence Tomography Angiography 2016 , 57, OCT27-36		219
25	Projection-resolved optical coherence tomographic angiography. <i>Biomedical Optics Express</i> , 2016 , 7, 8163-8	3.5	234
24	Improving the Transition to Ophthalmology Residency: A Survey of First-Year Ophthalmology Residents 2016 , 08, e10-e18		2
23	Subretinal Hyperreflective Material in the Comparison of Age-Related Macular Degeneration Treatments Trials. <i>Ophthalmology</i> , 2015 , 122, 1846-53.e5	7.3	96
22	Quantitative optical coherence tomography angiography of vascular abnormalities in the living human eye. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E2395-402	11.5	474
21	Lack of consensus in the diagnosis and treatment for ocular tuberculosis among uveitis specialists. <i>Ocular Immunology and Inflammation</i> , 2015 , 23, 25-31	2.8	25
20	DETECTION OF NONEXUDATIVE CHOROIDAL NEOVASCULARIZATION IN AGE-RELATED MACULAR DEGENERATION WITH OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. <i>Retina</i> , 2015 , 35, 2204-11	3.6	115
19	OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY FEATURES OF DIABETIC RETINOPATHY. <i>Retina</i> , 2015 , 35, 2371-6	3.6	253
18	EFFECT OF SYSTEMIC BETA-BLOCKERS, ACE INHIBITORS, AND ANGIOTENSIN RECEPTOR BLOCKERS ON DEVELOPMENT OF CHOROIDAL NEOVASCULARIZATION IN PATIENTS WITH AGE-RELATED MACULAR DEGENERATION. <i>Retina</i> , 2015 , 35, 1964-8	3.6	13
17	Advanced image processing for optical coherence tomographic angiography of macular diseases. <i>Biomedical Optics Express</i> , 2015 , 6, 4661-75	3.5	100
16	Injection frequency and anatomic outcomes 1 year following conversion to aflibercept in patients with neovascular age-related macular degeneration. <i>British Journal of Ophthalmology</i> , 2014 , 98, 1205-7	5.5	41
15	Combination systemic and intravitreal antiviral therapy in the management of acute retinal necrosis syndrome. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2014 , 45, 399-407	1.4	40
14	Electronic health record systems in ophthalmology: impact on clinical documentation. <i>Ophthalmology</i> , 2013 , 120, 1745-55	7.3	29

13	Spectral-domain optical coherence tomography characteristics of intermediate age-related macular degeneration. <i>Ophthalmology</i> , 2013 , 120, 140-50	7.3	82
12	Evaluation of electronic health record implementation in ophthalmology at an academic medical center (an American Ophthalmological Society thesis). <i>Transactions of the American Ophthalmological Society</i> , 2013 , 111, 70-92		35
11	Spatial correlation between hyperpigmentary changes on color fundus photography and hyperreflective foci on SDOCT in intermediate AMD 2012 , 53, 4626-33		59
10	Acute macular outer retinopathy (AMOR): a reappraisal of acute macular neuroretinopathy using multimodality diagnostic testing. <i>JAMA Ophthalmology</i> , 2011 , 129, 365-8		27
9	Subretinal transplantation of forebrain progenitor cells in nonhuman primates: survival and intact retinal function 2009 , 50, 3425-31		41
8	Comparison of digital fundus photographic and echographic measurements for maximal linear dimension from eyes with choroidal melanoma. <i>Retina</i> , 2009 , 29, 1321-7	3.6	9
7	Retinal precursors and the development of geographic atrophy in age-related macular degeneration. <i>Ophthalmology</i> , 2008 , 115, 1026-31	7.3	160
6	Internal en bloc resection and genetic analysis of retinal capillary hemangioblastoma. <i>JAMA Ophthalmology</i> , 2007 , 125, 1189-93		22
5	Binasal visual field defects from simultaneous bilateral retinal infarctions in sickle cell disease. <i>American Journal of Ophthalmology</i> , 2007 , 143, 893-6	4.9	10
4	Clinicopathologic correlation of stage 2 macular hole. <i>Retina</i> , 2006 , 26, 92-5	3.6	3
3	Disinfection capacity of PuriLens contact lens cleaning unit against <i>Acanthamoeba</i> . <i>Eye and Contact Lens</i> , 2004 , 30, 42-3	3.2	7
2	Isolated acquired unilateral horizontal gaze paresis from a putative lesion of the abducens nucleus. <i>Journal of Neuro-Ophthalmology</i> , 2002 , 22, 204-7	2.6	22
1	Cases from the Osler Medical Service at Johns Hopkins University. Herpetic keratitis. <i>American Journal of Medicine</i> , 2002 , 113, 242-3	2.4	