

# Thomas S Hwang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2650959/thomas-s-hwang-publications-by-citations.pdf>  
**Version:** 2024-04-10

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	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> , <b>2015</b> , 112, E2395-402	11.5	474
83	Detailed Vascular Anatomy of the Human Retina by Projection-Resolved Optical Coherence Tomography Angiography. <i>Scientific Reports</i> , <b>2017</b> , 7, 42201	4.9	406
82	OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY FEATURES OF DIABETIC RETINOPATHY. <i>Retina</i> , <b>2015</b> , 35, 2371-6	3.6	253
81	Automated Quantification of Capillary Nonperfusion Using Optical Coherence Tomography Angiography in Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , <b>2016</b> , 134, 367-73	3.9	252
80	Projection-resolved optical coherence tomographic angiography. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 8163-28	3.5	234
79	Optical Coherence Tomography Angiography <b>2016</b> , 57, OCT27-36		219
78	Retinal precursors and the development of geographic atrophy in age-related macular degeneration. <i>Ophthalmology</i> , <b>2008</b> , 115, 1026-31	7.3	160
77	Visualization of 3 Distinct Retinal Plexuses by Projection-Resolved Optical Coherence Tomography Angiography in Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , <b>2016</b> , 134, 1411-1419	3.9	130
76	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> , <b>2018</b> , 136, 29-38	3.9	121
75	DETECTION OF NONEXUDATIVE CHOROIDAL NEOVASCULARIZATION IN AGE-RELATED MACULAR DEGENERATION WITH OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. <i>Retina</i> , <b>2015</b> , 35, 2204-11	3.6	115
74	Advanced image processing for optical coherence tomographic angiography of macular diseases. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 4661-75	3.5	100
73	Subretinal Hyperreflective Material in the Comparison of Age-Related Macular Degeneration Treatments Trials. <i>Ophthalmology</i> , <b>2015</b> , 122, 1846-53.e5	7.3	96
72	Automated Quantification of Nonperfusion in Three Retinal Plexuses Using Projection-Resolved Optical Coherence Tomography Angiography in Diabetic Retinopathy <b>2016</b> , 57, 5101-5106		87
71	Evaluation of artifact reduction in optical coherence tomography angiography with real-time tracking and motion correction technology. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 3905-3915	3.5	86
70	Spectral-domain optical coherence tomography characteristics of intermediate age-related macular degeneration. <i>Ophthalmology</i> , <b>2013</b> , 120, 140-50	7.3	82
69	Evaluation of Automatically Quantified Foveal Avascular Zone Metrics for Diagnosis of Diabetic Retinopathy Using Optical Coherence Tomography Angiography <b>2018</b> , 59, 2212-2221		67
68	Automated Quantification of Nonperfusion Areas in 3 Vascular Plexuses With Optical Coherence Tomography Angiography in Eyes of Patients With Diabetes. <i>JAMA Ophthalmology</i> , <b>2018</b> , 136, 929-936	3.9	59

67	Spatial correlation between hyperpigmentary changes on color fundus photography and hyperreflective foci on SDOCT in intermediate AMD <b>2012</b> , 53, 4626-33		59
66	Reflectance-based projection-resolved optical coherence tomography angiography [Invited]. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 1536-1548	3.5	57
65	Sensitivity and Specificity of OCT Angiography to Detect Choroidal Neovascularization. <i>Ophthalmology Retina</i> , <b>2017</b> , 1, 294-303	3.8	55
64	Automated motion correction using parallel-strip registration for wide-field en face OCT angiogram. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2823-36	3.5	55
63	Automated volumetric segmentation of retinal fluid on optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 1577-89	3.5	54
62	Phenotypic Spectrum of Pentosan Polysulfate Sodium-Associated Maculopathy: A Multicenter Study. <i>JAMA Ophthalmology</i> , <b>2019</b> , 137, 1275-1282	3.9	48
61	Wide-Field OCT Angiography Investigation of the Relationship Between Radial Peripapillary Capillary Plexus Density and Nerve Fiber Layer Thickness <b>2017</b> , 58, 5188-5194		45
60	Optical Coherence Tomography Reflective Drusen Substructures Predict Progression to Geographic Atrophy in Age-related Macular Degeneration. <i>Ophthalmology</i> , <b>2016</b> , 123, 2554-2570	7.3	44
59	MEDnet, a neural network for automated detection of avascular area in OCT angiography. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 5147-5158	3.5	43
58	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> , <b>2014</b> , 98, 1205-7	5.5	41
57	Subretinal transplantation of forebrain progenitor cells in nonhuman primates: survival and intact retinal function <b>2009</b> , 50, 3425-31		41
56	Combination systemic and intravitreal antiviral therapy in the management of acute retinal necrosis syndrome. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , <b>2014</b> , 45, 399-407	1.4	40
55	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> , <b>2013</b> , 111, 70-92		35
54	Automated segmentation of retinal layer boundaries and capillary plexuses in wide-field optical coherence tomographic angiography. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 4429-4442	3.5	33
53	DETECTION OF CLINICALLY UNSUSPECTED RETINAL NEOVASCULARIZATION WITH WIDE-FIELD OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. <i>Retina</i> , <b>2020</b> , 40, 891-897	3.6	32
52	Plexus-specific retinal vascular anatomy and pathologies as seen by projection-resolved optical coherence tomographic angiography. <i>Progress in Retinal and Eye Research</i> , <b>2021</b> , 80, 100878	20.5	32
51	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> , <b>2019</b> , 10, 3257-3268	3.5	31
50	Electronic health record systems in ophthalmology: impact on clinical documentation. <i>Ophthalmology</i> , <b>2013</b> , 120, 1745-55	7.3	29

49	Automated registration and enhanced processing of clinical optical coherence tomography angiography. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2016</b> , 6, 391-401	3.6	28
48	Acute macular outer retinopathy (AMOR): a reappraisal of acute macular neuroretinopathy using multimodality diagnostic testing. <i>JAMA Ophthalmology</i> , <b>2011</b> , 129, 365-8		27
47	Lack of consensus in the diagnosis and treatment for ocular tuberculosis among uveitis specialists. <i>Ocular Immunology and Inflammation</i> , <b>2015</b> , 23, 25-31	2.8	25
46	Detection of Nonexudative Choroidal Neovascularization and Progression to Exudative Choroidal Neovascularization Using OCT Angiography. <i>Ophthalmology Retina</i> , <b>2019</b> , 3, 629-636	3.8	22
45	Internal en bloc resection and genetic analysis of retinal capillary hemangioblastoma. <i>JAMA Ophthalmology</i> , <b>2007</b> , 125, 1189-93		22
44	Isolated acquired unilateral horizontal gaze paresis from a putative lesion of the abducens nucleus. <i>Journal of Neuro-Ophthalmology</i> , <b>2002</b> , 22, 204-7	2.6	22
43	Plexus-Specific Detection of Retinal Vascular Pathologic Conditions with Projection-Resolved OCT Angiography. <i>Ophthalmology Retina</i> , <b>2018</b> , 2, 816-826	3.8	20
42	Classification of Choroidal Neovascularization Using Projection-Resolved Optical Coherence Tomographic Angiography <b>2018</b> , 59, 4285-4291		20
41	Optical coherence tomographic angiography of choroidal neovascularization ill-defined with fluorescein angiography. <i>British Journal of Ophthalmology</i> , <b>2017</b> , 101, 45-50	5.5	18
40	Quantitative Evaluation of Choroidal Neovascularization under Pro Re Nata Anti-Vascular Endothelial Growth Factor Therapy with OCT Angiography. <i>Ophthalmology Retina</i> , <b>2018</b> , 2, 931-941	3.8	18
39	Maximum value projection produces better OCT angiograms than mean value projection. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 6412-6424	3.5	18
38	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> , <b>2018</b> , 136, 337-345	3.9	17
37	Reconstruction of high-resolution 68-mm OCT angiograms using deep learning. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 3585-3600	3.5	17
36	Robust non-perfusion area detection in three retinal plexuses using convolutional neural network in OCT angiography. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 330-345	3.5	16
35	Automated Segmentation of Retinal Fluid Volumes From Structural and Angiographic Optical Coherence Tomography Using Deep Learning. <i>Translational Vision Science and Technology</i> , <b>2020</b> , 9, 54	3.3	16
34	Automated drusen detection in dry age-related macular degeneration by multiple-depth, optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 5049-5064	3.5	15
33	Three-dimensional structural and angiographic evaluation of foveal ischemia in diabetic retinopathy: method and validation. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 3522-3532	3.5	15
32	High-resolution wide-field OCT angiography with a self-navigation method to correct microsaccades and blinks. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 3234-3245	3.5	15

31	DcardNet: Diabetic Retinopathy Classification at Multiple Levels Based on Structural and Angiographic Optical Coherence Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 1859-1870	5	14
30	Automated three-dimensional registration and volume rebuilding for wide-field angiographic and structural optical coherence tomography. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 26001	3.5	13
29	Automated detection of photoreceptor disruption in mild diabetic retinopathy on volumetric optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 5384-5398	3.5	13
28	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> , <b>2015</b> , 35, 1964-8	3.6	13
27	Artificial intelligence in OCT angiography. <i>Progress in Retinal and Eye Research</i> , <b>2021</b> , 85, 100965	20.5	13
26	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> , <b>2020</b> , 209, 206-212	4.9	13
25	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> , <b>2017</b> , 8, 1306-1318	3.5	12
24	Automated detection of dilated capillaries on optical coherence tomography angiography. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 1101-1109	3.5	12
23	Assessing total retinal blood flow in diabetic retinopathy using multiplane en face Doppler optical coherence tomography. <i>British Journal of Ophthalmology</i> , <b>2018</b> , 102, 126-130	5.5	11
22	Changes in Electronic Health Record Use Time and Documentation over the Course of a Decade. <i>Ophthalmology</i> , <b>2019</b> , 126, 783-791	7.3	10
21	Binasal visual field defects from simultaneous bilateral retinal infarctions in sickle cell disease. <i>American Journal of Ophthalmology</i> , <b>2007</b> , 143, 893-6	4.9	10
20	Invariant features-based automated registration and montage for wide-field OCT angiography. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 120-136	3.5	10
19	Comparison of digital fundus photographic and echographic measurements for maximal linear dimension from eyes with choroidal melanoma. <i>Retina</i> , <b>2009</b> , 29, 1321-7	3.6	9
18	Disinfection capacity of PuriLens contact lens cleaning unit against <i>Acanthamoeba</i> . <i>Eye and Contact Lens</i> , <b>2004</b> , 30, 42-3	3.2	7
17	Culture-Proven Endophthalmitis After Intravitreal Injection: A 10-Year Analysis. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , <b>2019</b> , 50, 33-38	1.4	6
16	Optical Coherence Tomography Angiography Avascular Area Association With 1-Year Treatment Requirement and Disease Progression in Diabetic Retinopathy. <i>American Journal of Ophthalmology</i> , <b>2020</b> , 217, 268-277	4.9	6
15	Quantification of Nonperfusion Area in Montaged Widefield OCT Angiography Using Deep Learning in Diabetic Retinopathy. <i>Ophthalmology Science</i> , <b>2021</b> , 1, 100027		4
14	Clinicopathologic correlation of stage 2 macular hole. <i>Retina</i> , <b>2006</b> , 26, 92-5	3.6	3

13	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> , <b>2021</b> , 139, 734-741	3.9	3
12	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> , <b>2021</b> , 10, 13	3.3	2
11	Local Anatomic Precursors to New-Onset Geographic Atrophy in Age-Related Macular Degeneration as Defined on OCT. <i>Ophthalmology Retina</i> , <b>2021</b> , 5, 396-408	3.8	2
10	Improving the Transition to Ophthalmology Residency: A Survey of First-Year Ophthalmology Residents <b>2016</b> , 08, e10-e18		2
9	Prospective evaluation of optical coherence tomography for disease detection in the Casey mobile eye clinic. <i>Experimental Biology and Medicine</i> , <b>2021</b> , 246, 2214-2221	3.7	2
8	Teaching Ophthalmology Residents Clinical Optics Via a Flipped Classroom Curriculum. <i>Journal of Academic Ophthalmology (2017)</i> , <b>2019</b> , 11, e16-e21	0.7	1
7	Medicare Incentive Payments to United States Ophthalmologists for Use of Electronic Health Records: 2011-2016. <i>Ophthalmology</i> , <b>2019</b> , 126, 928-934	7.3	1
6	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> , <b>2021</b> , 246, 2230-2237	3.7	1
5	Deep learning-based signal-independent assessment of macular avascular area on 6x mm optical coherence tomography angiogram in diabetic retinopathy: a comparison to instrument-embedded software. <i>British Journal of Ophthalmology</i> , <b>2021</b> ,	5.5	1
4	Geographic Atrophy Progression Is Associated With Choriocapillaris Flow Deficits Measured With Optical Coherence Tomographic Angiography. <b>2021</b> , 62, 28		1
3	A deep learning network for classifying arteries and veins in montaged wide-field OCT angiograms. <i>Ophthalmology Science</i> , <b>2022</b> , 100149		0
2	Cases from the Osler Medical Service at Johns Hopkins University. Herpetic keratitis. <i>American Journal of Medicine</i> , <b>2002</b> , 113, 242-3	2.4	
1	Current Models for Inpatient and Emergency Room Ophthalmology Consultation in U.S. Residency Programs. <i>Journal of Academic Ophthalmology (2017)</i> , <b>2020</b> , 12, e171-e174	0.7	