

Theodore Leng

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

3,352
citations

201385

27
h-index

174990

52
g-index

121
all docs

121
docs citations

121
times ranked

3856
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Identification of Diabetic Retinopathy Using Deep Learning. <i>Ophthalmology</i> , 2017, 124, 962-969.	2.5	872
2	SUNDROP: six years of screening for retinopathy of prematurity with telemedicine. <i>Canadian Journal of Ophthalmology</i> , 2015, 50, 101-106.	0.4	133
3	Quantitative SD-OCT Imaging Biomarkers as Indicators of Age-Related Macular Degeneration Progression. , 2014, 55, 7093.		118
4	Automated drusen segmentation and quantification in SD-OCT images. <i>Medical Image Analysis</i> , 2013, 17, 1058-1072.	7.0	106
5	THE CHICK CHORIOALLANTOIC MEMBRANE AS A MODEL TISSUE FOR SURGICAL RETINAL RESEARCH AND SIMULATION. <i>Retina</i> , 2004, 24, 427-434.	1.0	94
6	REDUCING ORAL FLORA CONTAMINATION OF INTRAVITREAL INJECTIONS WITH FACE MASK OR SILENCE. <i>Retina</i> , 2011, Publish Ahead of Print, 473-6.	1.0	87
7	DELAYED-ONSET BLEB-ASSOCIATED ENDOPHTHALMITIS (1996â€“2008). <i>Retina</i> , 2011, 31, 344-352.	1.0	86
8	Stanford University Network for Diagnosis of Retinopathy of Prematurity (SUNDROP): Five Years of Screening With Telemedicine. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2014, 45, 106-113.	0.4	71
9	The Artificial Synapse Chip: A Flexible Retinal Interface Based on Directed Retinal Cell Growth and Neurotransmitter Stimulation. <i>Artificial Organs</i> , 2003, 27, 975-985.	1.0	69
10	Fully Automated Prediction of Geographic Atrophy Growth Using Quantitative Spectral-Domain Optical Coherence Tomography Biomarkers. <i>Ophthalmology</i> , 2016, 123, 1737-1750.	2.5	63
11	Automated geographic atrophy segmentation for SD-OCT images using region-based C-V model via local similarity factor. <i>Biomedical Optics Express</i> , 2016, 7, 581.	1.5	62
12	Progression of Photoreceptor Degeneration in Geographic Atrophy Secondary to Age-related Macular Degeneration. <i>JAMA Ophthalmology</i> , 2020, 138, 1026.	1.4	58
13	Beyond Retinal Layers: A Deep Voting Model for Automated Geographic Atrophy Segmentation in SD-OCT Images. <i>Translational Vision Science and Technology</i> , 2018, 7, 1.	1.1	54
14	Semi-automatic geographic atrophy segmentation for SD-OCT images. <i>Biomedical Optics Express</i> , 2013, 4, 2729.	1.5	51
15	Microcontact Printing on Human Tissue for Retinal Cell Transplantation. <i>JAMA Ophthalmology</i> , 2002, 120, 1714.	2.6	48
16	Delayed-onset bleb-associated endophthalmitis: presentation and outcome by culture result. <i>Clinical Ophthalmology</i> , 2011, 5, 739.	0.9	44
17	Short-Term Outcomes of Aflibercept Therapy for Diabetic Macular Edema in Patients With Incomplete Response to Ranibizumab and/or Bevacizumab. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 950-954.	0.4	44
18	Foundational Considerations for Artificial Intelligence Using Ophthalmic Images. <i>Ophthalmology</i> , 2022, 129, e14-e32.	2.5	43

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19	Medical school and residency influence on choice of an academic career and academic productivity among neurosurgery faculty in the United States. <i>Journal of Neurosurgery</i> , 2011, 115, 380-386.	0.9	42
20	SELECTIVE RETINAL THERAPY WITH MICROSECOND EXPOSURES USING A CONTINUOUS LINE SCANNING LASER. <i>Retina</i> , 2011, 31, 380-388.	1.0	39
21	SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY CHARACTERISTICS OF CUTICULAR DRUSEN. <i>Retina</i> , 2009, 29, 988-993.	1.0	38
22	Stanford University Network for Diagnosis of Retinopathy of Prematurity (SUNDROP): Four-years of Screening with Telemedicine. <i>Current Eye Research</i> , 2013, 38, 283-291.	0.7	38
23	Prediction of age-related macular degeneration disease using a sequential deep learning approach on longitudinal SD-OCT imaging biomarkers. <i>Scientific Reports</i> , 2020, 10, 15434.	1.6	37
24	Intraoperative Use of Three-Dimensional Spectral-Domain Optical Coherence Tomography. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2010, 41, 250-254.	0.4	37
25	Reductions in final visual acuity occur even within the first 3 days after a macula-off retinal detachment. <i>British Journal of Ophthalmology</i> , 2019, 103, 1503-1506.	2.1	35
26	MS-CAM: Multi-Scale Class Activation Maps for Weakly-Supervised Segmentation of Geographic Atrophy Lesions in SD-OCT Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3443-3455.	3.9	34
27	Frequency of Urgent or Emergent Vitreoretinal Surgical Procedures in the United States During the COVID-19 Pandemic. <i>JAMA Ophthalmology</i> , 2021, 139, 456.	1.4	33
28	Directed Retinal Nerve Cell Growth for Use in a Retinal Prosthesis Interface. , 2004, 45, 4132.		31
29	Automated intraretinal segmentation of SD-OCT images in normal and age-related macular degeneration eyes. <i>Biomedical Optics Express</i> , 2017, 8, 1926.	1.5	31
30	Imaging, Genetic, and Demographic Factors Associated With Conversion to Neovascular Age-Related Macular Degeneration. <i>JAMA Ophthalmology</i> , 2019, 137, 738.	1.4	31
31	FOVEAL CAVITATION AS AN OPTICAL COHERENCE TOMOGRAPHY FINDING IN CENTRAL CONE DYSFUNCTION. <i>Retina</i> , 2012, 32, 1411-1419.	1.0	27
32	A Multitask Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multicenter Analysis. <i>Diabetes Care</i> , 2021, 44, 2078-2088.	4.3	27
33	Povidone-Iodine Before Lidocaine Gel Anesthesia Achieves Surface Antisepsis. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2011, 42, 346-349.	0.4	27
34	MULTIMODAL IMAGING AND MULTIFOCAL ELECTRORETINOGRAPHY DEMONSTRATE AUTOSOMAL RECESSIVE STARGARDT DISEASE MAY PRESENT LIKE OCCULT MACULAR DYSTROPHY. <i>Retina</i> , 2014, 34, 1567-1575.	1.0	26
35	Visual Prognosis of Eyes Recovering From Macular Hole Surgery Through Automated Quantitative Analysis of Spectral-Domain Optical Coherence Tomography (SD-OCT) Scans. , 2015, 56, 4631.		23
36	Automated segmentation of optic disc in SD-OCT images and cup-to-disc ratios quantification by patch searching-based neural canal opening detection. <i>Optics Express</i> , 2015, 23, 31216.	1.7	22

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37	AFLIBERCEPT FOR THE TREATMENT OF RETINAL PIGMENT EPITHELIAL DETACHMENTS. <i>Retina</i> , 2016, 36, 492-498.	1.0	22
38	FOCAL PERIOCCULAR CARBOPLATIN CHEMOTHERAPY AVOIDS SYSTEMIC CHEMOTHERAPY FOR UNILATERAL, PROGRESSIVE RETINOBLASTOMA. <i>Retina</i> , 2010, 30, S66-S68.	1.0	21
39	PROSPECTIVE TRIAL OF ENDOGENOUS FUNGAL ENDOPHTHALMITIS AND CHORIORETINITIS RATES, CLINICAL COURSE, AND OUTCOMES IN PATIENTS WITH FUNGEMIA. <i>Retina</i> , 2016, 36, 1357-1363.	1.0	21
40	Individual Drusen Segmentation and Repeatability and Reproducibility of Their Automated Quantification in Optical Coherence Tomography Images. <i>Translational Vision Science and Technology</i> , 2017, 6, 12.	1.1	20
41	Imaging and artificial intelligence for progression of age-related macular degeneration. <i>Experimental Biology and Medicine</i> , 2021, 246, 2159-2169.	1.1	20
42	Effect of Lidocaine Gel Anesthesia on Endophthalmitis Rates Following Intravitreal Injection. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2012, 43, 115-120.	0.4	20
43	Automatic Identification of Referral-Warranted Diabetic Retinopathy Using Deep Learning on Mobile Phone Images. <i>Translational Vision Science and Technology</i> , 2020, 9, 60.	1.1	18
44	Automated and Computer-Assisted Detection, Classification, and Diagnosis of Diabetic Retinopathy. <i>Telemedicine Journal and E-Health</i> , 2020, 26, 544-550.	1.6	17
45	Improving the therapeutic window of retinal photocoagulation by spatial and temporal modulation of the laser beam. <i>Journal of Biomedical Optics</i> , 2011, 16, 028004.	1.4	15
46	Medical School and Residency Influence on Choice of an Academic Career and Academic Productivity Among US Neurology Faculty. <i>Archives of Neurology</i> , 2011, 68, 999.	4.9	15
47	Geographic atrophy segmentation in SD-OCT images using synthesized fundus autofluorescence imaging. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 182, 105101.	2.6	15
48	Branch Retinal Artery Occlusion After Septoplasty. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2010, 41, e1-2.	0.4	15
49	Intravitreal Dexamethasone in the Management of Delayed-Onset Bleb-Associated Endophthalmitis. <i>International Journal of Inflammation</i> , 2012, 2012, 1-5.	0.9	14
50	Application of Improved Homogeneity Similarity-Based Denoising in Optical Coherence Tomography Retinal Images. <i>Journal of Digital Imaging</i> , 2015, 28, 346-361.	1.6	14
51	The superficial and deep retinal capillary plexus in cases of fovea plana imaged by spectral-domain optical coherence tomography angiography. <i>American Journal of Ophthalmology Case Reports</i> , 2017, 6, 41-44.	0.4	14
52	Probabilistic Forecasting of Anti-VEGF Treatment Frequency in Neovascular Age-Related Macular Degeneration. <i>Translational Vision Science and Technology</i> , 2021, 10, 30.	1.1	14
53	Carbon Nanotube Bucky Paper as an Artificial Support Membrane for Retinal Cell Transplantation. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2013, 44, 73-76.	0.4	14
54	Spectral-Domain Optical Coherence Tomography Angiography of Central Retinal Artery Occlusion. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016, 47, 467-470.	0.4	14

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55	Descemet Stripping Automated Endothelial Keratoplasty Tissue Preparation With Femtosecond Laser and Contact Lens. <i>Cornea</i> , 2010, 29, 93-98.	0.9	13
56	Retinal breaks due to intravitreal ocriplasmin. <i>Clinical Ophthalmology</i> , 2014, 8, 1591.	0.9	13
57	Complete RPE and outer retinal atrophy in patients receiving anti-VEGF treatment for neovascular age-related macular degeneration. <i>PLoS ONE</i> , 2020, 15, e0232353.	1.1	13
58	Subconjunctival Air Leakage After Descemet's Stripping Automated Endothelial Keratoplasty(DSAEK) in a Post-Trabeculectomy Eye. <i>Open Ophthalmology Journal</i> , 2009, 3, 1-2.	0.1	13
59	A model retinal interface based on directed neuronal growth for single cell stimulation. <i>Biomedical Microdevices</i> , 2006, 8, 141-150.	1.4	12
60	ENDOPHTHALMITIS CAUSED BY PROTEUS SPECIES. <i>Retina</i> , 2009, 29, 1019-1024.	1.0	12
61	Restricted Summed-Area Projection for Geographic Atrophy Visualization in SD-OCT Images. <i>Translational Vision Science and Technology</i> , 2015, 4, 2.	1.1	12
62	Fabrication of healthy and disease-mimicking retinal phantoms with tapered foveal pits for optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2015, 20, 085004.	1.4	12
63	An integrated time adaptive geographic atrophy prediction model for SD-OCT images. <i>Medical Image Analysis</i> , 2021, 68, 101893.	7.0	12
64	Effect of Human Central Nervous System Stem Cell Subretinal Transplantation on Progression of Geographic Atrophy Secondary to Nonneovascular Age-Related Macular Degeneration. <i>Ophthalmology Retina</i> , 2021, 5, 32-40.	1.2	12
65	A FALSE COLOR FUSION STRATEGY FOR DRUSEN AND GEOGRAPHIC ATROPHY VISUALIZATION IN OPTICAL COHERENCE TOMOGRAPHY IMAGES. <i>Retina</i> , 2014, 34, 2346-2358.	1.0	11
66	Ophthalmology and COVID-19: The Impact of the Pandemic on Patient Care and Outcomes: An IRIS [®] Registry Study. <i>Ophthalmology</i> , 2021, 128, 1782-1784.	2.5	11
67	Ocular adverse events following intravitreal brolucizumab for neovascular age-related macular degeneration at a single tertiary care center. <i>European Journal of Ophthalmology</i> , 2022, 32, 2747-2751.	0.7	11
68	Predicting Systemic Health Features from Retinal Fundus Images Using Transfer-Learning-Based Artificial Intelligence Models. <i>Diagnostics</i> , 2022, 12, 1714.	1.3	11
69	Traumatic Airbag Maculopathy. <i>JAMA Ophthalmology</i> , 2013, 131, 685.	1.4	10
70	AN IMPROVED OPTICAL COHERENCE TOMOGRAPHY-DERIVED FUNDUS PROJECTION IMAGE FOR DRUSEN VISUALIZATION. <i>Retina</i> , 2014, 34, 996-1005.	1.0	9
71	Automated detection of foveal center in <sc>SD</sc>-OCT images using the saliency of retinal thickness maps. <i>Medical Physics</i> , 2017, 44, 6390-6403.	1.6	9
72	Cannula-Based 25-Gauge Vitreous Tap And Injection. <i>Retina</i> , 2012, 32, 1021-1022.	1.0	8

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73	Two cases of X-linked retinoschisis with different spectral domain optical coherence tomography findings. <i>Clinical Ophthalmology</i> , 2012, 6, 1563.	0.9	8
74	THINKING LEAN. <i>Retina</i> , 2016, 36, 335-341.	1.0	8
75	Three-Dimensional Spectral Domain Optical Coherence Tomography of a Clear Corneal Cataract Incision. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2008, 39, S132-4.	0.4	8
76	Acute Retinal Necrosis Secondary to Herpes Simplex Virus Type 2 in Neonates. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 499-501.	0.4	8
77	Idiopathic pigmented vitreous cyst. <i>Acta Ophthalmologica</i> , 2016, 94, e83-4.	0.6	7
78	Multi-Modal Longitudinal Evaluation of Subthreshold Laser Lesions in Human Retina, Including Scanning Laser Ophthalmoscope-Adaptive Optics Imaging. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016, 47, 268-275.	0.4	7
79	Manual Removal of Intraocular Lens Silicone Oil Droplets and Dystrophic Calcifications Using a Nitinol Loop: A Case Series. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2017, 48, 422-426.	0.4	7
80	Noninvasive detection of microaneurysms in diabetic retinopathy by swept-source optical coherence tomography. <i>Clinical Ophthalmology</i> , 2016, Volume 10, 1791-1795.	0.9	6
81	Rapid Fluctuation of Subretinal Fluid on Encorafenib and Binimetinib. <i>Retina</i> , 2020, 40, e66-e67.	1.0	6
82	Management of repository corticotropin injection therapy for non-infectious uveitis: a Delphi study. <i>Acta Ophthalmologica</i> , 2021, 99, 669-678.	0.6	6
83	Artificial intelligence and ophthalmic surgery. <i>Current Opinion in Ophthalmology</i> , 2021, 32, 425-430.	1.3	6
84	En Face Imaging of Epiretinal Membranes and the Retinal Nerve Fiber Layer Using Swept-Source Optical Coherence Tomography. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016, 47, 730-734.	0.4	6
85	Preventing Progression in Nonexudative Age-Related Macular Degeneration With Subthreshold Laser Therapy: A Systematic Review. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2019, 50, e61-e70.	0.4	6
86	Quantitative Evaluation of Drusen on Photographs. <i>Ophthalmology</i> , 2013, 120, 644-644.e2.	2.5	5
87	Manual Removal of Dystrophic Calcifications From Silicone Intraocular Lenses Using a 27-Gauge Nitinol Loop With Concave Tines. <i>Retina</i> , 2015, 35, 2650-2651.	1.0	5
88	Subthreshold laser therapy for macular oedema from branch retinal vein occlusion: focused review. <i>British Journal of Ophthalmology</i> , 2020, 104, bjophthalmol-2019-315192.	2.1	5
89	Retinal Vascular Tumor and Peripheral Retinal Vasculitis in the Setting of Systemic Tuberculosis. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2009, 40, 409-412.	0.4	5
90	Experience With Aflibercept for the Treatment of Neovascular Age-Related Macular Degeneration. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 542-549.	0.4	5

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91	Wiggling Subcutaneous Lumps. <i>Clinical Infectious Diseases</i> , 2003, 37, 591-592.	2.9	4
92	West African Crystalline Maculopathy in Sickle Cell Retinopathy. <i>Case Reports in Ophthalmological Medicine</i> , 2015, 2015, 1-3.	0.3	4
93	Thomas A. Swift's Electric Rifle Injuries to the Eye and Ocular Adnexa. <i>Ophthalmology Retina</i> , 2019, 3, 258-269.	1.2	4
94	Novel Interface to Biological Systems for Retinal Prosthetics. <i>Materials Research Society Symposia Proceedings</i> , 2002, 729, 441.	0.1	3
95	Kinetics of central macular thickness reduction in patients with macular edema after intravitreal drug therapy. <i>Clinical Ophthalmology</i> , 2011, 5, 1751.	0.9	3
96	Neovascularization in Purtscher's retinopathy. <i>Clinical Ophthalmology</i> , 2011, 5, 1585.	0.9	3
97	Correspondence. <i>Retina</i> , 2011, 31, 426.	1.0	3
98	Photodynamic Therapy Rescue for Subretinal Fluid Exacerbation After Focal Laser Treatment in Idiopathic Central Serous Chorioretinopathy. <i>Open Ophthalmology Journal</i> , 2011, 5, 6-9.	0.1	3
99	Risk Factors for Respiratory Depression in Patients Undergoing Retrobulbar Block for Vitreoretinal Surgery. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 243-247.	0.4	3
100	En Face Optical Coherence Tomography Angiography Imaging Versus Fundus Photography in the Measurement of Choroidal Nevi. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2017, 48, 741-747.	0.4	3
101	Factors Associated With Poor Response to Aflibercept After Switching From Ranibizumab or Bevacizumab in Neovascular Age-related Macular Degeneration. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016, 47, 458-465.	0.4	3
102	A Multi-Scale Deep Convolutional Neural Network For Joint Segmentation And Prediction Of Geographic Atrophy In SD-OCT Images. , 2019, , .		2
103	Rationale for American Society of Retina Specialists Best Practice Recommendations for Conducting Vitreoretinal Surgery During the Coronavirus Disease-19 Era. <i>Journal of Vitreoretinal Diseases</i> , 2020, 4, 420-429.	0.2	2
104	Retinotomy Closure Following Subretinal Stem Cell Transplant With a 30-Gauge Needle. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016, 47, 869-873.	0.4	2
105	Mobile Health in the Retinal Clinic Population: Access to and Interest in Self-Tracking. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016, 47, 252-257.	0.4	2
106	Retinal Capillary Hemangioma in von Hippel-Lindau Disease. <i>JAMA Ophthalmology</i> , 2010, 128, 425.	2.6	1
107	Retinopathy of prematurity in an infant with Aicardi's syndrome. <i>Eye</i> , 2011, 25, 257-258.	1.1	1
108	Optical Coherence Tomography Angiography in Retinal Vein Occlusion: Quantifying Macular Ischemia. <i>Current Ophthalmology Reports</i> , 2018, 6, 1-6.	0.5	1

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109	Visual acuity and progression of macular atrophy in patients receiving intravitreal anti-VEGF for age-related macular degeneration. <i>European Journal of Ophthalmology</i> , 2021, , 112067212110017.	0.7	1
110	Valved 25-Gauge Cannula for Vitreous Tap and Injection. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2017, 48, 916-917.	0.4	1
111	A buoyant mass in the brain: Intraventricular migration of silicone oil. <i>American Journal of Ophthalmology Case Reports</i> , 2022, 25, 101399.	0.4	1
112	Reply. <i>Clinical Infectious Diseases</i> , 2003, 37, 607-608.	2.9	0
113	Optic Nerve Pitâ€“Associated Choroidal Cleft. <i>JAMA Ophthalmology</i> , 2014, 132, 1142.	1.4	0
114	Optical Coherence Tomographyâ€“Guided Short-Duration Positioning after Macular Hole Surgery. <i>Ophthalmology Retina</i> , 2017, 1, 176-178.e1.	1.2	0
115	Spectral Domain Optical Coherence Tomography Angiography in Stargardt's Macular Dystrophy. <i>Ophthalmology Retina</i> , 2017, 1, 452-454.	1.2	0
116	Segmentation of Optic Disc and Cup-to-Disc Ratio Quantification Based on OCT Scans. <i>Biological and Medical Physics Series</i> , 2019, , 193-209.	0.3	0
117	Intraocular Nematode Affixed to Posterior Lens Capsule. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 1066-1067.	0.4	0
118	Significant Bilateral Response in Diabetic Macular Edema After Single Unilateral Intravitreal Aflibercept Injection. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2017, 48, 167-169.	0.4	0
119	Segmentation and Visualization of Drusen and Geographic Atrophy in SD-OCT Images. <i>Biological and Medical Physics Series</i> , 2019, , 281-344.	0.3	0