

Simon S Gao

List of Publications by Citations

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49
papers

3,081
citations

26
h-index

53
g-index

53
ext. papers

3,605
ext. citations

4.2
avg, IF

5.07
L-index

#	Paper	IF	Citations
49	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
48	OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY FEATURES OF DIABETIC RETINOPATHY. <i>Retina</i> , 2015 , 35, 2371-6	3.6	253
47	Automated Quantification of Capillary Nonperfusion Using Optical Coherence Tomography Angiography in Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , 2016 , 134, 367-73	3.9	252
46	Optical Coherence Tomography Angiography 2016 , 57, OCT27-36		219
45	Projection-Resolved Optical Coherence Tomography Angiography of Macular Retinal Circulation in Glaucoma. <i>Ophthalmology</i> , 2017 , 124, 1589-1599	7.3	150
44	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
43	Advanced image processing for optical coherence tomographic angiography of macular diseases. <i>Biomedical Optics Express</i> , 2015 , 6, 4661-75	3.5	100
42	Optical Coherence Tomography Angiography of Peripapillary Retinal Blood Flow Response to Hyperoxia 2015 , 56, 3287-91		94
41	Optimization of the split-spectrum amplitude-decorrelation angiography algorithm on a spectral optical coherence tomography system. <i>Optics Letters</i> , 2015 , 40, 2305-8	3	91
40	Mechanisms of hearing loss after blast injury to the ear. <i>PLoS ONE</i> , 2013 , 8, e67618	3.7	91
39	Optical Coherence Tomography Angiography Using the Optovue Device. <i>Developments in Ophthalmology</i> , 2016 , 56, 6-12		90
38	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
37	Automated choroidal neovascularization detection algorithm for optical coherence tomography angiography. <i>Biomedical Optics Express</i> , 2015 , 6, 3564-76	3.5	83
36	Optical coherence tomography angiography: Technical principles and clinical applications in ophthalmology. <i>Taiwan Journal of Ophthalmology</i> , 2017 , 7, 115-129	1.4	69
35	Deficient forward transduction and enhanced reverse transduction in the alpha tectorin C1509G human hearing loss mutation. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 209-23	4.1	60
34	Evaluating Polypoidal Choroidal Vasculopathy With Optical Coherence Tomography Angiography 2016 , 57, OCT526-32		60
33	Compensation for Reflectance Variation in Vessel Density Quantification by Optical Coherence Tomography Angiography 2016 , 57, 4485-92		60

32	Vibration of the organ of Corti within the cochlear apex in mice. <i>Journal of Neurophysiology</i> , 2014 , 112, 1192-204	3.2	58
31	Sensitivity and Specificity of OCT Angiography to Detect Choroidal Neovascularization. <i>Ophthalmology Retina</i> , 2017 , 1, 294-303	3.8	55
30	Optical Coherence Tomography Angiography in Choroideremia: Correlating Choriocapillaris Loss With Overlying Degeneration. <i>JAMA Ophthalmology</i> , 2016 , 134, 697-702	3.9	52
29	Prestin regulation and function in residual outer hair cells after noise-induced hearing loss. <i>PLoS ONE</i> , 2013 , 8, e82602	3.7	46
28	Quantitative imaging of cochlear soft tissues in wild-type and hearing-impaired transgenic mice by spectral domain optical coherence tomography. <i>Optics Express</i> , 2011 , 19, 15415-28	3.3	44
27	In vivo vibrometry inside the apex of the mouse cochlea using spectral domain optical coherence tomography. <i>Biomedical Optics Express</i> , 2013 , 4, 230	3.5	43
26	Signal Strength Reduction Effects in OCT Angiography. <i>Ophthalmology Retina</i> , 2019 , 3, 835-842	3.8	41
25	OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY OF CHOROIDAL NEOVASCULARIZATION IN FOUR INHERITED RETINAL DYSTROPHIES. <i>Retina</i> , 2016 , 36, 2339-2347	3.6	30
24	In vivo vibrometry inside the apex of the mouse cochlea using spectral domain optical coherence tomography. <i>Biomedical Optics Express</i> , 2013 , 4, 230-40	3.5	29
23	Correlation of Outer Retinal Degeneration and Choriocapillaris Loss in Stargardt Disease Using En Face Optical Coherence Tomography and Optical Coherence Tomography Angiography. <i>American Journal of Ophthalmology</i> , 2019 , 202, 79-90	4.9	26
22	En face Doppler total retinal blood flow measurement with 70 kHz spectral optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2015 , 20, 066004	3.5	25
21	Postprocessing algorithms to minimize fixed-pattern artifact and reduce trigger jitter in swept source optical coherence tomography. <i>Optics Express</i> , 2015 , 23, 9824-34	3.3	25
20	Biophysical mechanisms underlying outer hair cell loss associated with a shortened tectorial membrane. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2011 , 12, 577-94	3.3	22
19	Plexus-Specific Detection of Retinal Vascular Pathologic Conditions with Projection-Resolved OCT Angiography. <i>Ophthalmology Retina</i> , 2018 , 2, 816-826	3.8	20
18	Calibration of optical coherence tomography angiography with a microfluidic chip. <i>Journal of Biomedical Optics</i> , 2016 , 21, 86015	3.5	20
17	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
16	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
15	Quantification of choroidal neovascularization vessel length using optical coherence tomography angiography. <i>Journal of Biomedical Optics</i> , 2016 , 21, 76010	3.5	18

14	The candidate splicing factor Sfswap regulates growth and patterning of inner ear sensory organs. <i>PLoS Genetics</i> , 2014 , 10, e1004055	6	18
13	A TRPA1 inhibitor suppresses neurogenic inflammation and airway contraction for asthma treatment. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	18
12	Choriocapillaris evaluation in choroideremia using optical coherence tomography angiography. <i>Biomedical Optics Express</i> , 2017 , 8, 48-56	3.5	17
11	Imaging high-frequency periodic motion in the mouse ear with coherently interleaved optical coherence tomography. <i>Optics Letters</i> , 2011 , 36, 4716-8	3	17
10	Characterization of Choriorretinopathy Associated with Mitochondrial Trifunctional Protein Disorders: Long-Term Follow-up of 21 Cases. <i>Ophthalmology</i> , 2016 , 123, 2183-95	7.3	13
9	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
8	Automated detection of dilated capillaries on optical coherence tomography angiography. <i>Biomedical Optics Express</i> , 2017 , 8, 1101-1109	3.5	12
7	Calcium imaging of inner ear hair cells within the cochlear epithelium of mice using two-photon microscopy. <i>Journal of Biomedical Optics</i> , 2010 , 15, 016002	3.5	12
6	Spectral fractionation detection of gold nanorod contrast agents using optical coherence tomography. <i>Optics Express</i> , 2015 , 23, 4212-25	3.3	10
5	A point mutation in the gene for asparagine-linked glycosylation 10B (Alg10b) causes nonsyndromic hearing impairment in mice (<i>Mus musculus</i>). <i>PLoS ONE</i> , 2013 , 8, e80408	3.7	4
4	Development of AITC-induced dermal blood flow as a translational in vivo biomarker of TRPA1 activity in human and rodent skin. <i>British Journal of Clinical Pharmacology</i> , 2021 , 87, 129-139	3.8	4
3	Methodology for assessment of structural vibrations by spectral domain optical coherence tomography 2012 ,		2
2	Translational and pharmacokinetic-pharmacodynamic application for the clinical development of GDC-0334, a novel TRPA1 inhibitor. <i>Clinical and Translational Science</i> , 2021 , 14, 1945-1954	4.9	2
1	Optische Kohärenztomographie-Angiographie mit dem Optovue-System. <i>Karger Kompass Ophthalmologie</i> , 2017 , 3, 58-63	0	