

Bianca S Gerendas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1888239/publications.pdf>

Version: 2024-02-01

69
papers

3,231
citations

361045

20
h-index

182168

51
g-index

74
all docs

74
docs citations

74
times ranked

2843
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic response in the HAWK and HARRIER trials using deep learning in retinal fluid volume and compartment analysis. <i>Eye</i> , 2023, 37, 1160-1169.	1.1	14
2	Segmentation of macular neovascularization and leakage in fluorescein angiography images in neovascular age-related macular degeneration using deep learning. <i>Eye</i> , 2023, 37, 1439-1444.	1.1	5
3	Automated quantification of macular fluid in retinal diseases and their response to anti-VEGF therapy. <i>British Journal of Ophthalmology</i> , 2022, 106, 113-120.	2.1	27
4	The RAP study, report 3: Discoloration of the macular region in patients with macular neovascularization type 3. <i>Acta Ophthalmologica</i> , 2022, 100, .	0.6	7
5	The RAP study, report 4: morphological and topographical characteristics of multifocal macular neovascularization type 3. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2022, 260, 141-147.	1.0	7
6	THE RAP STUDY, REPORT 5: REDISCOVERING MACULAR NEOVASCULARIZATION TYPE 3. <i>Retina</i> , 2022, 42, 485-493.	1.0	11
7	Comparison of early diabetic retinopathy staging in asymptomatic patients between autonomous AI-based screening and human-graded ultra-widefield colour fundus images. <i>Eye</i> , 2022, 36, 510-516.	1.1	12
8	Correspondence. <i>Retina</i> , 2022, 42, e18-e20.	1.0	1
9	Improving foveal avascular zone segmentation in fluorescein angiograms by leveraging manual vessel labels from public color fundus pictures. <i>Biomedical Optics Express</i> , 2022, 13, 2566.	1.5	1
10	Association of microvascular biomarkers in fluorescein angiography with macrovascular-related mortality in clinical routine data. <i>PLoS ONE</i> , 2022, 17, e0266423.	1.1	1
11	The impact of structural optical coherence tomography changes on visual function in retinal vein occlusion. <i>Acta Ophthalmologica</i> , 2021, 99, 418-426.	0.6	13
12	RAP study, report 1: novel subtype of macular neovascularisation type III, cilioretinal MNV3. <i>British Journal of Ophthalmology</i> , 2021, 105, 113-117.	2.1	11
13	IMPACT OF RESIDUAL SUBRETINAL FLUID VOLUMES ON TREATMENT OUTCOMES IN A SUBRETINAL FLUID-“TOLERANT TREAT-AND-EXTEND REGIMEN. <i>Retina</i> , 2021, 41, 2221-2228.	1.0	17
14	Deep Learning-“Based Automated Optical Coherence Tomography Segmentation in Clinical Routine. <i>JAMA Ophthalmology</i> , 2021, 139, 973.	1.4	2
15	Optical coherence tomography in multiple sclerosis: A 3-“year prospective multicenter study. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 2235-2251.	1.7	36
16	Effect of posterior vitreous detachment on treat-and-extend versus monthly ranibizumab for neovascular age-related macular degeneration. <i>British Journal of Ophthalmology</i> , 2020, 104, 899-903.	2.1	5
17	Ganglion cell layer thickening in well-“controlled patients with type 1 diabetes: an early sign for diabetic retinopathy?. <i>Acta Ophthalmologica</i> , 2020, 98, e292-e300.	0.6	6
18	MORPHOLOGICAL AND FUNCTIONAL CHARACTERISTICS AT THE ONSET OF EXUDATIVE CONVERSION IN AGE-RELATED MACULAR DEGENERATION. <i>Retina</i> , 2020, 40, 1070-1078.	1.0	11

#	ARTICLE	IF	CITATIONS
19	Quantification of Fluid Resolution and Visual Acuity Gain in Patients With Diabetic Macular Edema Using Deep Learning. <i>JAMA Ophthalmology</i> , 2020, 138, 945.	1.4	49
20	THE RAP STUDY, REPORT TWO. <i>Retina</i> , 2020, 40, 2255-2262.	1.0	17
21	Functional versus functional and anatomical criteria-guided ranibizumab treatment in patients with neovascular age-related macular degeneration " results from the randomized, phase IIIb OCTAVE study. <i>BMC Ophthalmology</i> , 2020, 20, 18.	0.6	8
22	Automated Quantification of Photoreceptor alteration in macular disease using Optical Coherence Tomography and Deep Learning. <i>Scientific Reports</i> , 2020, 10, 5619.	1.6	21
23	Microvascular abnormalities and long-term efficacy after stereotactic radiotherapy under continued intravitreal anti-VEGF treatment for neovascular AMD. <i>British Journal of Ophthalmology</i> , 2020, , bjophthalmol-2020-317563.	2.1	2
24	Reducing image variability across OCT devices with unsupervised unpaired learning for improved segmentation of retina. <i>Biomedical Optics Express</i> , 2020, 11, 346.	1.5	36
25	Guidelines for the Management of Retinal Vein Occlusion by the European Society of Retina Specialists (EURETINA). <i>Ophthalmologica</i> , 2019, 242, 123-162.	1.0	153
26	Using Cyclegans for Effectively Reducing Image Variability Across OCT Devices and Improving Retinal Fluid Segmentation. , 2019, , .		13
27	U2-Net: A Bayesian U-Net Model With Epistemic Uncertainty Feedback For Photoreceptor Layer Segmentation In Pathological OCT Scans. , 2019, , .		34
28	The prevalence of retinopathy in patients with type 1 diabetes treated with education-based intensified insulin therapy and its association with parameters of glucose control. <i>Diabetes Research and Clinical Practice</i> , 2019, 148, 234-239.	1.1	4
29	Intravitreal Fluocinolone Acetonide May Decelerate Diabetic Retinal Neurodegeneration. , 2019, 60, 2134.		12
30	RETOUCH: The Retinal OCT Fluid Detection and Segmentation Benchmark and Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1858-1874.	5.4	139
31	Unsupervised Identification of Disease Marker Candidates in Retinal OCT Imaging Data. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1037-1047.	5.4	67
32	Neuroretinal atrophy following resolution of macular oedema in retinal vein occlusion. <i>British Journal of Ophthalmology</i> , 2019, 103, 36-42.	2.1	13
33	Foveal Avascular Zone Segmentation in Clinical Routine Fluorescein Angiographies Using Multitask Learning. <i>Lecture Notes in Computer Science</i> , 2019, , 35-42.	1.0	3
34	An Amplified-Target Loss Approach for Photoreceptor Layer Segmentation in Pathological OCT Scans. <i>Lecture Notes in Computer Science</i> , 2019, , 26-34.	1.0	2
35	Association of Changes in Macular Perfusion With Ranibizumab Treatment for Diabetic Macular Edema. <i>JAMA Ophthalmology</i> , 2018, 136, 315.	1.4	24
36	Correlation between morphological characteristics in spectral"domain"optical coherence tomography, different functional tests and a patient's subjective handicap in acute central serous chorioretinopathy. <i>Acta Ophthalmologica</i> , 2018, 96, e776-e782.	0.6	10

#	ARTICLE	IF	CITATIONS
37	Machine Learning to Analyze the Prognostic Value of Current Imaging Biomarkers in Neovascular Age-Related Macular Degeneration. <i>Ophthalmology Retina</i> , 2018, 2, 24-30.	1.2	143
38	Predictive imaging biomarkers relevant for functional and anatomical outcomes during ranibizumab therapy of diabetic macular oedema. <i>British Journal of Ophthalmology</i> , 2018, 102, 195-203.	2.1	68
39	Fully Automated Detection and Quantification of Macular Fluid in OCT Using Deep Learning. <i>Ophthalmology</i> , 2018, 125, 549-558.	2.5	384
40	Prediction of Individual Disease Conversion in Early AMD Using Artificial Intelligence. , 2018, 59, 3199.		144
41	Artificial intelligence in retina. <i>Progress in Retinal and Eye Research</i> , 2018, 67, 1-29.	7.3	469
42	Supervised learning and dimension reduction techniques for quantification of retinal fluid in optical coherence tomography images. <i>Eye</i> , 2017, 31, 1212-1220.	1.1	22
43	Guidelines for the Management of Diabetic Macular Edema by the European Society of Retina Specialists (EURETINA). <i>Ophthalmologica</i> , 2017, 237, 185-222.	1.0	456
44	Predicting Macular Edema Recurrence from Spatio-Temporal Signatures in Optical Coherence Tomography Images. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1773-1783.	5.4	38
45	Computational image analysis for prognosis determination in DME. <i>Vision Research</i> , 2017, 139, 204-210.	0.7	42
46	Evaluating the impact of vitreomacular adhesion on anti-VEGF therapy for retinal vein occlusion using machine learning. <i>Scientific Reports</i> , 2017, 7, 2928.	1.6	18
47	Joint retinal layer and fluid segmentation in OCT scans of eyes with severe macular edema using unsupervised representation and auto-context. <i>Biomedical Optics Express</i> , 2017, 8, 1874.	1.5	82
48	Analyzing and Predicting Visual Acuity Outcomes of Anti-VEGF Therapy by a Longitudinal Mixed Effects Model of Imaging and Clinical Data. , 2017, 58, 4173.		29
49	The Distribution of Leakage on Fluorescein Angiography in Diabetic Macular Edema: A New Approach to Its Etiology. , 2017, 58, 3986.		25
50	Impact of B-Scan Averaging on Spectralis Optical Coherence Tomography Image Quality before and after Cataract Surgery. <i>Journal of Ophthalmology</i> , 2017, 2017, 1-8.	0.6	4
51	Prediction of Anti-VEGF Treatment Requirements in Neovascular AMD Using a Machine Learning Approach. , 2017, 58, 3240.		128
52	Spatial Correspondence Between Intraretinal Fluid, Subretinal Fluid, and Pigment Epithelial Detachment in Neovascular Age-Related Macular Degeneration. , 2017, 58, 4039.		30
53	Automated Fovea Detection in Spectral Domain Optical Coherence Tomography Scans of Exudative Macular Disease. <i>International Journal of Biomedical Imaging</i> , 2016, 2016, 1-9.	3.0	16
54	Multivendor Spectral-Domain Optical Coherence Tomography Dataset, Observer Annotation Performance Evaluation, and Standardized Evaluation Framework for Intraretinal Cystoid Fluid Segmentation. <i>Journal of Ophthalmology</i> , 2016, 2016, 1-8.	0.6	22

#	ARTICLE	IF	CITATIONS
55	Improve synthetic retinal OCT images with present of pathologies and textural information. , 2016, , .		2
56	A novel benchmark model for intelligent annotation of spectral-domain optical coherence tomography scans using the example of cyst annotation. Computer Methods and Programs in Biomedicine, 2016, 130, 93-105.	2.6	9
57	Correlation of 3-Dimensionally Quantified Intraretinal and Subretinal Fluid With Visual Acuity in Neovascular Age-Related Macular Degeneration. JAMA Ophthalmology, 2016, 134, 182.	1.4	80
58	Geodesic denoising for optical coherence tomography images. , 2016, , .		0
59	Choroidal thickness maps from spectral domain and swept source optical coherence tomography: algorithmic versus ground truth annotation. British Journal of Ophthalmology, 2016, 100, 1372-1376.	2.1	34
60	Choroidal Line Scan Measurements in Swept-Source Optical Coherence Tomography as Surrogates for Volumetric Thickness Assessment. American Journal of Ophthalmology, 2016, 162, 150-158.e1.	1.7	5
61	Comparison of penetration depth in choroidal imaging using swept source vs spectral domain optical coherence tomography. Eye, 2015, 29, 409-415.	1.1	54
62	Quantitative comparison of macular segmentation performance using identical retinal regions across multiple spectral-domain optical coherence tomography instruments. British Journal of Ophthalmology, 2015, 99, 794-800.	2.1	34
63	Automated retinal fovea type distinction in spectral-domain optical coherence tomography of retinal vein occlusion. Proceedings of SPIE, 2015, , .	0.8	1
64	Spatio-Temporal Signatures to Predict Retinal Disease Recurrence. Lecture Notes in Computer Science, 2015, 24, 152-163.	1.0	16
65	Neovascular Age-Related Macular Degeneration. , 2014, , 89-99.		0
66	Automated vessel shadow segmentation of fovea-centered spectral-domain images from multiple OCT devices. Proceedings of SPIE, 2014, , .	0.8	0
67	Three-Dimensional Automated Choroidal Volume Assessment on Standard Spectral-Domain Optical Coherence Tomography and Correlation With the Level of Diabetic Macular Edema. American Journal of Ophthalmology, 2014, 158, 1039-1048.e1.	1.7	70
68	Early and Intermediate Age-Related Macular Degeneration. , 2014, , 69-76.		1
69	Stable registration of pathological 3D-OCT scans using retinal vessels. , 0, , .		9