Bianca S Gerendas

List of Publications by Year
in descending order

69 papers	3,231 citations	361413 20 h-index	182427 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. Eye, 2023, 37, 1160-1169.	2.1	14
2	Segmentation of macular neovascularization and leakage in fluorescein angiography images in neovascular age-related macular degeneration using deep learning. Eye, 2023, 37, 1439-1444.	2.1	5
3	Automated quantification of macular fluid in retinal diseases and their response to anti-VEGF therapy. British Journal of Ophthalmology, 2022, 106, 113-120.	3.9	27
4	The RAP study, report 3: Discoloration of the macular region in patients with macular neovascularization type 3. Acta Ophthalmologica, 2022, 100, .	1.1	7
5	The RAP study, report 4: morphological and topographical characteristics of multifocal macular neovascularization type 3. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, 260, 141-147.	1.9	7
6	THE RAP STUDY, REPORT 5: REDISCOVERING MACULAR NEOVASCULARIZATION TYPE 3. Retina, 2022, 42, 485-493.	1.7	11
7	Comparison of early diabetic retinopathy staging in asymptomatic patients between autonomous AI-based screening and human-graded ultra-widefield colour fundus images. Eye, 2022, 36, 510-516.	2.1	12
8	Correspondence. Retina, 2022, 42, e18-e20.	1.7	1
9	Improving foveal avascular zone segmentation in fluorescein angiograms by leveraging manual vessel labels from public color fundus pictures. Biomedical Optics Express, 2022, 13, 2566.	2.9	1
10	Association of microvascular biomarkers in fluorescein angiography with macrovascular-related mortality in clinical routine data. PLoS ONE, 2022, 17, e0266423.	2.5	1
11	The impact of structural optical coherence tomography changes on visual function in retinal vein occlusion. Acta Ophthalmologica, 2021, 99, 418-426.	1.1	13
12	RAP study, report 1: novel subtype of macular neovascularisation type III, cilioretinal MNV3. British Journal of Ophthalmology, 2021, 105, 113-117.	3.9	11
13	IMPACT OF RESIDUAL SUBRETINAL FLUID VOLUMES ON TREATMENT OUTCOMES IN A SUBRETINAL FLUIDâ€"TOLERANT TREAT-AND-EXTEND REGIMEN. Retina, 2021, 41, 2221-2228.	1.7	17
14	Deep Learningâ€"Based Automated Optical Coherence Tomography Segmentation in Clinical Routine. JAMA Ophthalmology, 2021, 139, 973.	2.5	2
15	Optical coherence tomography in multiple sclerosis: A 3â€year prospective multicenter study. Annals of Clinical and Translational Neurology, 2021, 8, 2235-2251.	3.7	36
16	Effect of posterior vitreous detachment on treat-and-extend versus monthly ranibizumab for neovascular age-related macular degeneration. British Journal of Ophthalmology, 2020, 104, 899-903.	3.9	5
17	Ganglion cell layer thickening in wellâ€controlled patients with type 1 diabetes: an early sign for diabetic retinopathy?. Acta Ophthalmologica, 2020, 98, e292-e300.	1.1	6
18	MORPHOLOGICAL AND FUNCTIONAL CHARACTERISTICS AT THE ONSET OF EXUDATIVE CONVERSION IN AGE-RELATED MACULAR DEGENERATION. Retina, 2020, 40, 1070-1078.	1.7	11

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19	Quantification of Fluid Resolution and Visual Acuity Gain in Patients With Diabetic Macular Edema Using Deep Learning. JAMA Ophthalmology, 2020, 138, 945.	2.5	49
20	THE RAP STUDY, REPORT TWO. Retina, 2020, 40, 2255-2262.	1.7	17
21	Functional versus functional and anatomical criteria-guided ranibizumab treatment in patients with neovascular age-related macular degeneration â€" results from the randomized, phase IIIb OCTAVE study. BMC Ophthalmology, 2020, 20, 18.	1.4	8
22	Automated Quantification of Photoreceptor alteration in macular disease using Optical Coherence Tomography and Deep Learning. Scientific Reports, 2020, 10, 5619.	3.3	21
23	Microvascular abnormalities and long-term efficacy after stereotactic radiotherapy under continued intravitreal anti-VEGF treatment for neovascular AMD. British Journal of Ophthalmology, 2020, , bjophthalmol-2020-317563.	3.9	2
24	Reducing image variability across OCT devices with unsupervised unpaired learning for improved segmentation of retina. Biomedical Optics Express, 2020, 11, 346.	2.9	36
25	Guidelines for the Management of Retinal Vein Occlusion by the European Society of Retina Specialists (EURETINA). Ophthalmologica, 2019, 242, 123-162.	1.9	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. Diabetes Research and Clinical Practice, 2019, 148, 234-239.	2.8	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. IEEE Transactions on Medical Imaging, 2019, 38, 1858-1874.	8.9	139
31	Unsupervised Identification of Disease Marker Candidates in Retinal OCT Imaging Data. IEEE Transactions on Medical Imaging, 2019, 38, 1037-1047.	8.9	67
32	Neuroretinal atrophy following resolution of macular oedema in retinal vein occlusion. British Journal of Ophthalmology, 2019, 103, 36-42.	3.9	13
33	Foveal Avascular Zone Segmentation in Clinical Routine Fluorescein Angiographies Using Multitask Learning. Lecture Notes in Computer Science, 2019, , 35-42.	1.3	3
34	An Amplified-Target Loss Approach for Photoreceptor Layer Segmentation in Pathological OCT Scans. Lecture Notes in Computer Science, 2019, , 26-34.	1.3	2
35	Association of Changes in Macular Perfusion With Ranibizumab Treatment for Diabetic Macular Edema. JAMA Ophthalmology, 2018, 136, 315.	2.5	24
36	Correlation between morphological characteristics in spectralâ€domainâ€optical coherence tomography, different functional tests and a patient's subjective handicap in acute central serous chorioretinopathy. Acta Ophthalmologica, 2018, 96, e776-e782.	1.1	10

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37	Machine Learning to Analyze the Prognostic Value of Current Imaging Biomarkers in Neovascular Age-Related Macular Degeneration. Ophthalmology Retina, 2018, 2, 24-30.	2.4	143
38	Predictive imaging biomarkers relevant for functional and anatomical outcomes during ranibizumab therapy of diabetic macular oedema. British Journal of Ophthalmology, 2018, 102, 195-203.	3.9	68
39	Fully Automated Detection and Quantification of Macular Fluid in OCT Using Deep Learning. Ophthalmology, 2018, 125, 549-558.	5.2	384
40	Prediction of Individual Disease Conversion in Early AMD Using Artificial Intelligence. , 2018, 59, 3199.		144
41	Artificial intelligence in retina. Progress in Retinal and Eye Research, 2018, 67, 1-29.	15.5	469
42	Supervised learning and dimension reduction techniques for quantification of retinal fluid in optical coherence tomography images. Eye, 2017, 31, 1212-1220.	2.1	22
43	Guidelines for the Management of Diabetic Macular Edema by the European Society of Retina Specialists (EURETINA). Ophthalmologica, 2017, 237, 185-222.	1.9	456
44	Predicting Macular Edema Recurrence from Spatio-Temporal Signatures in Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2017, 36, 1773-1783.	8.9	38
45	Computational image analysis for prognosis determination in DME. Vision Research, 2017, 139, 204-210.	1.4	42
46	Evaluating the impact of vitreomacular adhesion on anti-VEGF therapy for retinal vein occlusion using machine learning. Scientific Reports, 2017, 7, 2928.	3.3	18
47	Joint retinal layer and fluid segmentation in OCT scans of eyes with severe macular edema using unsupervised representation and auto-context. Biomedical Optics Express, 2017, 8, 1874.	2.9	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. Journal of Ophthalmology, 2017, 2017, 1-8.	1.3	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. International Journal of Biomedical Imaging, 2016, 2016, 1-9.	3.9	16
54	Multivendor Spectral-Domain Optical Coherence Tomography Dataset, Observer Annotation Performance Evaluation, and Standardized Evaluation Framework for Intraretinal Cystoid Fluid Segmentation. Journal of Ophthalmology, 2016, 2016, 1-8.	1.3	22

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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.	4.7	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.	2.5	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.	3.9	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.	3.3	5
61	Comparison of penetration depth in choroidal imaging using swept source vs spectral domain optical coherence tomography. Eye, 2015, 29, 409-415.	2.1	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.	3.9	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.	1.3	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 ofÂDiabetic Macular Edema. American Journal of Ophthalmology, 2014, 158, 1039-1048.e1.	3.3	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