Rui C Bernardes

List of Publications by Year
in descending order

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93	1,802	394286	289141
papers	citations	19 h-index	40 g-index

97	97	97	2086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Blood-Retinal Barrier. European Journal of Ophthalmology, 2011, 21, 3-9.	0.7	363
2	Digital Ocular Fundus Imaging: A Review. Ophthalmologica, 2011, 226, 161-181.	1.0	161
3	Improved adaptive complex diffusion despeckling filter. Optics Express, 2010, 18, 24048.	1.7	140
4	Macular alterations after small-incision cataract surgery. Journal of Cataract and Refractive Surgery, 2004, 30, 752-760.	0.7	123
5	Microaneurysm Turnover Is a Biomarker for Diabetic Retinopathy Progression to Clinically Significant Macular Edema: Findings for Type 2 Diabetics with Nonproliferative Retinopathy. Ophthalmologica, 2009, 223, 292-297.	1.0	88
6	Nonproliferative retinopathy in diabetes type 2. Initial stages and characterization of phenotypes. Progress in Retinal and Eye Research, 2005, 24, 355-377.	7.3	72
7	Alterations of the Blood-Retinal Barrier and Retinal Thickness in Preclinical Retinopathy in Subjects With Type 2 Diabetes. JAMA Ophthalmology, 2000, 118, 1364.	2.6	69
8	Retinal texture biomarkers may help to discriminate between Alzheimerâ€™s, Parkinsonâ€™s, and healthy controls. PLoS ONE, 2019, 14, e0218826.	1.1	54
9	Mapping Retinal Fluorescein Leakage With Confocal Scanning Laser Fluorometry of the Human Vitreous. JAMA Ophthalmology, 1999, 117, 631.	2.6	51
10	Retinal Thickness in Eyes With Mild Nonproliferative Retinopathy in Patients With Type 2 Diabetes Mellitus. JAMA Ophthalmology, 2002, 120, 1301.	2.6	49
11	Three-Year Follow-up Study of Blood-Retinal Barrier and Retinal ThicknessAlterations in Patients With Type 2 Diabetes Mellitus and Mild NonproliferativeDiabetic Retinopathy. JAMA Ophthalmology, 2004, 122, 211.	2.6	48
12	Computer-Assisted Microaneurysm Turnover in the Early Stages of Diabetic Retinopathy. Ophthalmologica, 2009, 223, 284-291.	1.0	47
13	Central retinal thickness measured with HD-OCT shows a weak correlation with visual acuity in eyes with CSME. British Journal of Ophthalmology, 2010, 94, 1201-1204.	2.1	36
14	Age-Related Macular Degeneration and Risk Factors for the Development of Choroidal Neovascularisation in the Fellow Eye: A 3-Year Follow-Up Study. Ophthalmologica, 2011, 226, 110-118.	1.0	36
15	Visual phenotype in Williams-Beuren syndrome challenges magnocellular theories explaining human neurodevelopmental visual cortical disorders. Journal of Clinical Investigation, 2007, 117, 3720-9.	3.9	35
16	Early Markers of Choroidal Neovascularization in the Fellow Eye of Patients with Unilateral Exudative Age-Related Macular Degeneration. Ophthalmologica, 2011, 225, 144-149.	1.0	33
17	Multimodal Macula Mapping. Survey of Ophthalmology, 2002, 47, 580-589.	1.7	32
18	Alterations of retinal capillary blood flow in preclinical retinopathy in subjects with type 2 diabetes. , 2003, 241, 181-186.		31

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19	Texture Analysis and Its Applications in Biomedical Imaging: A Survey. IEEE Reviews in Biomedical Engineering, 2022, 15, 222-246.	13.1	23
20	Is the Retina a Mirror of the Aging Brain? Aging of Neural Retina Layers and Primary Visual Cortex Across the Lifespan. Frontiers in Aging Neuroscience, 2019, 11, 360.	1.7	23
21	3-D Adaptive Nonlinear Complex-Diffusion Despeckling Filter. IEEE Transactions on Medical Imaging, 2012, 31, 2205-2212.	5.4	22
22	Noninvasive Evaluation of Retinal Leakage Using Optical Coherence Tomography. Ophthalmologica, 2011, 226, 29-36.	1.0	18
23	Mapping the Human Blood-Retinal Barrier Function. IEEE Transactions on Biomedical Engineering, 2005, 52, 106-116.	2.5	17
24	Ocular fundus reference images from optical coherence tomography. Computerized Medical Imaging and Graphics, 2014, 38, 381-389.	3.5	17
25	Novel imaging techniques for diabetic macular edema. Documenta Ophthalmologica, 1999, 97, 341-347.	1.0	15
26	Optical Coherence Tomography ? Automatic Retina Classification Through Support Vector Machines. European Ophthalmic Review, 2012, 06, 200.	0.3	14
27	The Retinal Inner Plexiform Synaptic Layer Mirrors Grey Matter Thickness of Primary Visual Cortex with Increased Amyloid Î² Load in Early Alzheimerâ€™s Disease. Neural Plasticity, 2020, 2020, 1-11.	1.0	13
28	Synthetic OCT data for image processing performance testing. , 2011, , .		12
29	The retinal ganglion cell layer predicts normalâ€appearing white matter tract integrity in multiple sclerosis: <scp>A</scp> combined diffusion tensor imaging and optical coherence tomography approach. Human Brain Mapping, 2018, 39, 1712-1720.	1.9	11
30	Interplay Between Macular Retinal Changes and White Matter Integrity in Early Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 70, 723-732.	1.2	11
31	Computer-Aided Detection of Diabetic Retinopathy Progression. , 2012, , 59-66.		10
32	Optical Coherence Tomography: A Concept Review. Biological and Medical Physics Series, 2012, , 139-156.	0.3	9
33	Increased-Resolution OCT Thickness Mapping of the Human Macula: A Statistically Based Registration. , 2008, 49, 2046.		8
34	Two-dimensional segmentation of the retinal vascular network from optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 126011.	1.4	8
35	Longitudinal normative OCT retinal thickness data for wild-type mice, and characterization of changes in the 3Ã—Tg-AD mice model of Alzheimer's disease. Aging, 2021, 13, 9433-9454.	1.4	8
36	[Regular Paper] Texture Biomarkers of Alzheimer's Disease and Disease Progression in the Mouse Retina. , 2018, , .		7

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37	Monte Carlo simulation of diabetic macular edema changes on optical coherence tomography data. , 2014, , .		6
38	Occipital bloodâ€brain barrier permeability is an independent predictor of visual outcome in type 2 diabetes, irrespective of the retinal barrier: A longitudinal study. Journal of Neuroendocrinology, 2018, 30, e12566.	1.2	6
39	Optical coherence tomography: Health information embedded on OCT signal statistics. , 2011, 2011, 6131-3.		5
40	Simulation of cellular changes on Optical Coherence Tomography of human retina. , 2015, 2015, 8147-50.		5
41	Textural information from the retinal nerve fibre layer in multiple sclerosis*. , 2019, , .		5
42	Multimodal functional and morphological nonrigid image registration. , 2005, , .		4
43	Three-dimensional segmentation and reconstruction of the retinal vasculature from spectral-domain optical coherence tomography. Journal of Biomedical Optics, 2015, 20, 016006.	1.4	4
44	Characterization of the retinal changes of the 3Ã—Tg-AD mouse model of Alzheimerâ€™s disease. Health and Technology, 2020, 10, 875-883.	2.1	4
45	Retinal Biomarkers of Alzheimerâ€™s Disease: Insights from Transgenic Mouse Models. Lecture Notes in Computer Science, 2017, , 541-550.	1.0	4
46	3D blood vessels segmentation from optical coherence tomography. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	4
47	Swept-source Phase-Stabilized Optical Coherence Tomography Setup for Elastography. , 2022, , .		4
48	Retinal Aging in 3Ã— Tg-AD Mice Model of Alzheimer's Disease. Frontiers in Aging Neuroscience, 0, 14, .	1.7	4
49	Validation of the automatic identification of eyes with diabetic retinopathy by OCT. , 2012, , .		3
50	Unveiling preclinical idiopathic macular hole formation using support vector machines. , 2014, , .		3
51	Maxwell's equations based 3D model of light scattering in the retina. , 2015, , .		3
52	Data acquisition and laser scanning synchronism in SS-OCT â€” An experimental apparatus. , 2017, , .		3
53	Sexual dimorphism of the adult human retina assessed by optical coherence tomography. Health and Technology, 2020, 10, 913-924.	2.1	3
54	OCT Noise Despeckling Using 3D Nonlinear Complex Diffusion Filter. Lecture Notes in Computational Vision and Biomechanics, 2012, , 141-157.	0.5	3

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55	3D Retinal Vascular Network from Optical Coherence Tomography Data. Lecture Notes in Computer Science, 2012, , 339-346.	1.0	2
56	Shedding Light on Early Central Nervous System Changes for Alzheimerâ€™s Disease through the Retina: An Animal Study. , 2022, , .		2
57	On the Numerical Solution of the Inverse Elastography Problem for Time-harmonic Excitation. , 2022, , .		2
58	3D nonlinear complex-diffusion filter on GPU. , 2012, 2012, 110-3.		1
59	On the relevance of the 3D retinal vascular network from OCT data. Biometrical Letters, 2012, 49, 95-102.	0.4	1
60	Development of an Optical Coherence Tomograph (OCT) for small animal retinal imaging. , 2013, , .		1
61	Machine Learning Approaches in OCT: Application to Neurodegenerative Disorders. , 2020, , 507-521.		1
62	Sexual Dimorphism of the Adult Human Retina Assessed by Optical Coherence Tomography. IFMBE Proceedings, 2020, , 1830-1834.	0.2	1
63	Fast fully-automated multimodal image co-registration (optical coherence tomography, colour) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	1
64	Non-invasive discrimination between perfused and occluded vessels by optical coherence tomography. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	1
65	Development of an Optical Coherence Tomograph for Small Animal Retinal Imaging. IFMBE Proceedings, 2014, , 419-422.	0.2	1
66	Increased Resolution Macular Thickness Mapping by OCT. , 2006, 2006, 4710-3.		0
67	Ocular fundus imaging: From structure to function. , 2011, , .		0
68	Segmentation processes and pattern recognition in retina and brain imaging. , 2012, , .		0
69	Identification of eyes at risk of developing idiopathic macular holes by support vector machines. , 2012, , .		0
70	Novel imaging techniques for diabetic macular edema. , 2000, , 137-143.		0
71	Quantitative fluorescein angiograms. Acta Ophthalmologica, 0, 85, 0-0.	0.4	0
72	The sensitivity of OCT in the diagnosis of clinically significant macular edema. Acta Ophthalmologica, 0, 85, 0-0.	0.4	0

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73	Instrumentation adaptation for quantitative fluorescein angiograms. Acta Ophthalmologica, 0, 85, 0-0.	0.4	0
74	New developments in OCT evaluations. Acta Ophthalmologica, 0, 86, 0-0.	0.6	0
75	Risk markers for progression of mild nonproliferative retinopathy to clinically significant macular edema in type 2 diabetic patients. Acta Ophthalmologica, 0, 86, 0-0.	0.6	0
76	Retinal thickness vs. retinal sensitivity at the central human macula. Acta Ophthalmologica, 0, 86, 0-0.	0.6	0
77	Semi-automated assessment of microaneurysm formation rate from color fundus photographs in patients with mild NPDR. Acta Ophthalmologica, 2009, 87, 0-0.	0.6	0
78	High-definition Fourier domain OCT: non-invasive assessment of BRB changes. Acta Ophthalmologica, 2009, 87, 0-0.	0.6	0
79	Validation of a predictive model for diabetic retinopathy progression in type-2 diabetic patients with mild nonproliferative diabetic retinopathy.. Acta Ophthalmologica, 2009, 87, 0-0.	0.6	0
80	Optical coherence tomography speckle denoising. Acta Ophthalmologica, 2010, 88, 0-0.	0.6	0
81	Computer-aided Analysis of Fundus Photographs. European Ophthalmic Review, 2011, 05, 104.	0.3	0
82	Noninvasive assessment of Blood-Retinal Barrier function by High-Definition Optical Coherence Tomography. , 2011, , 229-234.		0
83	Bloodâ€retinal barrier function status from OCT data. Acta Ophthalmologica, 2011, 89, 0-0.	0.6	0
84	Clinical Phenotypes of Diabetic Retinopathy. , 2012, , 53-68.		0
85	Evaluation of the Bloodâ€“Retinal Barrier with Optical Coherence Tomography. Biological and Medical Physics Series, 2012, , 157-174.	0.3	0
86	Vascular network of the human macula from OCT. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	0
87	Optical coherence tomography: signal signature on neuronal ageing and blood-retinal barrier status. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	0
88	Explicit and Semi-implicit Complex-Diffusion Schemes for Optical Coherence Tomography Despeckling. Lecture Notes in Computer Science, 2013, , 282-289.	1.0	0
89	Enhanced 3D retinal vascular network reconstruction from high-definition SD-OCT. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
90	Simulation of DME changes on OCT. Acta Ophthalmologica, 2014, 92, 0-0.	0.6	0

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91	Automatic identification of eyes at risk of developing idiopathic macular hole. Acta Ophthalmologica, 2014, 92, 0-0.	0.6	0
92	Visual impairment in diabetic patients with and without established blood-retinal barrier leakage and relation with the status of the blood-brain barrier. Acta Ophthalmologica, 2014, 92, 0-0.	0.6	0
93	Characterization of the Retinal Changes of the 3xTg-AD Mouse Model of Alzheimerâ€™s Disease. IFMBE Proceedings, 2020, , 1816-1821.	0.2	0