

# Rui C Bernardes

## List of Publications by Year in descending order

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93  
papers

1,802  
citations

448610

19  
h-index

325983

40  
g-index

97  
all docs

97  
docs citations

97  
times ranked

2254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Texture Analysis and Its Applications in Biomedical Imaging: A Survey. IEEE Reviews in Biomedical Engineering, 2022, 15, 222-246.	13.1	23
2	Shedding Light on Early Central Nervous System Changes for Alzheimer's Disease through the Retina: An Animal Study. , 2022, , .		2
3	Swept-source Phase-Stabilized Optical Coherence Tomography Setup for Elastography. , 2022, , .		4
4	On the Numerical Solution of the Inverse Elastography Problem for Time-harmonic Excitation. , 2022, , .		2
5	Longitudinal normative OCT retinal thickness data for wild-type mice, and characterization of changes in the 3xTg-AD mice model of Alzheimer's disease. Aging, 2021, 13, 9433-9454.	1.4	8
6	The Retinal Inner Plexiform Synaptic Layer Mirrors Grey Matter Thickness of Primary Visual Cortex with Increased Amyloid $\beta$ Load in Early Alzheimer's Disease. Neural Plasticity, 2020, 2020, 1-11.	1.0	13
7	Sexual dimorphism of the adult human retina assessed by optical coherence tomography. Health and Technology, 2020, 10, 913-924.	2.1	3
8	Characterization of the retinal changes of the 3xTg-AD mouse model of Alzheimer's disease. Health and Technology, 2020, 10, 875-883.	2.1	4
9	Machine Learning Approaches in OCT: Application to Neurodegenerative Disorders. , 2020, , 507-521.		1
10	Sexual Dimorphism of the Adult Human Retina Assessed by Optical Coherence Tomography. IFMBE Proceedings, 2020, , 1830-1834.	0.2	1
11	Characterization of the Retinal Changes of the 3xTg-AD Mouse Model of Alzheimer's Disease. IFMBE Proceedings, 2020, , 1816-1821.	0.2	0
12	Interplay Between Macular Retinal Changes and White Matter Integrity in Early Alzheimer's Disease. Journal of Alzheimer's Disease, 2019, 70, 723-732.	1.2	11
13	Retinal texture biomarkers may help to discriminate between Alzheimer's, Parkinson's, and healthy controls. PLoS ONE, 2019, 14, e0218826.	1.1	54
14	Textural information from the retinal nerve fibre layer in multiple sclerosis*. , 2019, , .		5
15	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
16	Occipital blood-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
17	The retinal ganglion cell layer predicts normal-appearing white matter tract integrity in multiple sclerosis: A combined diffusion tensor imaging and optical coherence tomography approach. Human Brain Mapping, 2018, 39, 1712-1720.	1.9	11
18	[Regular Paper] Texture Biomarkers of Alzheimer's Disease and Disease Progression in the Mouse Retina. , 2018, , .		7

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19	Data acquisition and laser scanning synchronism in SS-OCT " An experimental apparatus. , 2017, , .		3
20	Retinal Biomarkers of Alzheimer's Disease: Insights from Transgenic Mouse Models. Lecture Notes in Computer Science, 2017, , 541-550.	1.0	4
21	Simulation of cellular changes on Optical Coherence Tomography of human retina. , 2015, 2015, 8147-50.		5
22	Maxwell's equations based 3D model of light scattering in the retina. , 2015, , .		3
23	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
24	Unveiling preclinical idiopathic macular hole formation using support vector machines. , 2014, , .		3
25	Monte Carlo simulation of diabetic macular edema changes on optical coherence tomography data. , 2014, , .		6
26	Ocular fundus reference images from optical coherence tomography. Computerized Medical Imaging and Graphics, 2014, 38, 381-389.	3.5	17
27	Development of an Optical Coherence Tomograph for Small Animal Retinal Imaging. IFMBE Proceedings, 2014, , 419-422.	0.2	1
28	Simulation of DME changes on OCT. Acta Ophthalmologica, 2014, 92, 0-0.	0.6	0
29	Automatic identification of eyes at risk of developing idiopathic macular hole. Acta Ophthalmologica, 2014, 92, 0-0.	0.6	0
30	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
31	Development of an Optical Coherence Tomograph (OCT) for small animal retinal imaging. , 2013, , .		1
32	Two-dimensional segmentation of the retinal vascular network from optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 126011.	1.4	8
33	Explicit and Semi-implicit Complex-Diffusion Schemes for Optical Coherence Tomography Despeckling. Lecture Notes in Computer Science, 2013, , 282-289.	1.0	0
34	Fast fully-automated multimodal image co-registration (optical coherence tomography, colour) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	0.6	1
35	Enhanced 3D retinal vascular network reconstruction from high-definition SD-OCT. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
36	Non-invasive discrimination between perfused and occluded vessels by optical coherence tomography. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	1

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37	3D nonlinear complex-diffusion filter on GPU. , 2012, 2012, 110-3.		1
38	Computer-Aided Detection of Diabetic Retinopathy Progression. , 2012, , 59-66.		10
39	On the relevance of the 3D retinal vascular network from OCT data. Biometrical Letters, 2012, 49, 95-102.	0.4	1
40	3-D Adaptive Nonlinear Complex-Diffusion Despeckling Filter. IEEE Transactions on Medical Imaging, 2012, 31, 2205-2212.	5.4	22
41	Segmentation processes and pattern recognition in retina and brain imaging. , 2012, , .		0
42	Validation of the automatic identification of eyes with diabetic retinopathy by OCT. , 2012, , .		3
43	Identification of eyes at risk of developing idiopathic macular holes by support vector machines. , 2012, , .		0
44	Optical Coherence Tomography: A Concept Review. Biological and Medical Physics Series, 2012, , 139-156.	0.3	9
45	3D Retinal Vascular Network from Optical Coherence Tomography Data. Lecture Notes in Computer Science, 2012, , 339-346.	1.0	2
46	3D blood vessels segmentation from optical coherence tomography. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	4
47	Optical Coherence Tomography ? Automatic Retina Classification Through Support Vector Machines. European Ophthalmic Review, 2012, 06, 200.	0.3	14
48	Clinical Phenotypes of Diabetic Retinopathy. , 2012, , 53-68.		0
49	OCT Noise Despeckling Using 3D Nonlinear Complex Diffusion Filter. Lecture Notes in Computational Vision and Biomechanics, 2012, , 141-157.	0.5	3
50	Evaluation of the Bloodâ€™Retinal Barrier with Optical Coherence Tomography. Biological and Medical Physics Series, 2012, , 157-174.	0.3	0
51	Vascular network of the human macula from OCT. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	0
52	Optical coherence tomography: signal signature on neuronal ageing and blood-retinal barrier status. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	0
53	Synthetic OCT data for image processing performance testing. , 2011, , .		12
54	Digital Ocular Fundus Imaging: A Review. Ophthalmologica, 2011, 226, 161-181.	1.0	161

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55	Noninvasive Evaluation of Retinal Leakage Using Optical Coherence Tomography. <i>Ophthalmologica</i> , 2011, 226, 29-36.	1.0	18
56	Age-Related Macular Degeneration and Risk Factors for the Development of Choroidal Neovascularisation in the Fellow Eye: A 3-Year Follow-Up Study. <i>Ophthalmologica</i> , 2011, 226, 110-118.	1.0	36
57	Early Markers of Choroidal Neovascularization in the Fellow Eye of Patients with Unilateral Exudative Age-Related Macular Degeneration. <i>Ophthalmologica</i> , 2011, 225, 144-149.	1.0	33
58	Blood-Retinal Barrier. <i>European Journal of Ophthalmology</i> , 2011, 21, 3-9.	0.7	363
59	Optical coherence tomography: Health information embedded on OCT signal statistics. , 2011, 2011, 6131-3.		5
60	Ocular fundus imaging: From structure to function. , 2011, , .		0
61	Computer-aided Analysis of Fundus Photographs. <i>European Ophthalmic Review</i> , 2011, 05, 104.	0.3	0
62	Noninvasive assessment of Blood-Retinal Barrier function by High-Definition Optical Coherence Tomography. , 2011, , 229-234.		0
63	Bloodâ€™retinal barrier function status from OCT data. <i>Acta Ophthalmologica</i> , 2011, 89, 0-0.	0.6	0
64	Central retinal thickness measured with HD-OCT shows a weak correlation with visual acuity in eyes with CSME. <i>British Journal of Ophthalmology</i> , 2010, 94, 1201-1204.	2.1	36
65	Improved adaptive complex diffusion despeckling filter. <i>Optics Express</i> , 2010, 18, 24048.	1.7	140
66	Optical coherence tomography speckle denoising. <i>Acta Ophthalmologica</i> , 2010, 88, 0-0.	0.6	0
67	Microaneurysm Turnover Is a Biomarker for Diabetic Retinopathy Progression to Clinically Significant Macular Edema: Findings for Type 2 Diabetics with Nonproliferative Retinopathy. <i>Ophthalmologica</i> , 2009, 223, 292-297.	1.0	88
68	Computer-Assisted Microaneurysm Turnover in the Early Stages of Diabetic Retinopathy. <i>Ophthalmologica</i> , 2009, 223, 284-291.	1.0	47
69	Semi-automated assessment of microaneurysm formation rate from color fundus photographs in patients with mild NPDR. <i>Acta Ophthalmologica</i> , 2009, 87, 0-0.	0.6	0
70	High-definition Fourier domain OCT: non-invasive assessment of BRB changes. <i>Acta Ophthalmologica</i> , 2009, 87, 0-0.	0.6	0
71	Validation of a predictive model for diabetic retinopathy progression in type-2 diabetic patients with mild nonproliferative diabetic retinopathy.. <i>Acta Ophthalmologica</i> , 2009, 87, 0-0.	0.6	0
72	Increased-Resolution OCT Thickness Mapping of the Human Macula: A Statistically Based Registration. , 2008, 49, 2046.		8

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73	Visual phenotype in Williams-Beuren syndrome challenges magnocellular theories explaining human neurodevelopmental visual cortical disorders. <i>Journal of Clinical Investigation</i> , 2007, 117, 3720-9.	3.9	35
74	Increased Resolution Macular Thickness Mapping by OCT. , 2006, 2006, 4710-3.		0
75	Nonproliferative retinopathy in diabetes type 2. Initial stages and characterization of phenotypes. <i>Progress in Retinal and Eye Research</i> , 2005, 24, 355-377.	7.3	72
76	Mapping the Human Blood-Retinal Barrier Function. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 106-116.	2.5	17
77	Multimodal functional and morphological nonrigid image registration. , 2005, , .		4
78	Three-Year Follow-up Study of Blood-Retinal Barrier and Retinal Thickness Alterations in Patients With Type 2 Diabetes Mellitus and Mild Nonproliferative Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , 2004, 122, 211.	2.6	48
79	Macular alterations after small-incision cataract surgery. <i>Journal of Cataract and Refractive Surgery</i> , 2004, 30, 752-760.	0.7	123
80	Alterations of retinal capillary blood flow in preclinical retinopathy in subjects with type 2 diabetes. , 2003, 241, 181-186.		31
81	Multimodal Macula Mapping. <i>Survey of Ophthalmology</i> , 2002, 47, 580-589.	1.7	32
82	Retinal Thickness in Eyes With Mild Nonproliferative Retinopathy in Patients With Type 2 Diabetes Mellitus. <i>JAMA Ophthalmology</i> , 2002, 120, 1301.	2.6	49
83	Alterations of the Blood-Retinal Barrier and Retinal Thickness in Preclinical Retinopathy in Subjects With Type 2 Diabetes. <i>JAMA Ophthalmology</i> , 2000, 118, 1364.	2.6	69
84	Novel imaging techniques for diabetic macular edema. , 2000, , 137-143.		0
85	Mapping Retinal Fluorescein Leakage With Confocal Scanning Laser Fluorometry of the Human Vitreous. <i>JAMA Ophthalmology</i> , 1999, 117, 631.	2.6	51
86	Novel imaging techniques for diabetic macular edema. <i>Documenta Ophthalmologica</i> , 1999, 97, 341-347.	1.0	15
87	Quantitative fluorescein angiograms. <i>Acta Ophthalmologica</i> , 0, 85, 0-0.	0.4	0
88	The sensitivity of OCT in the diagnosis of clinically significant macular edema. <i>Acta Ophthalmologica</i> , 0, 85, 0-0.	0.4	0
89	Instrumentation adaptation for quantitative fluorescein angiograms. <i>Acta Ophthalmologica</i> , 0, 85, 0-0.	0.4	0
90	New developments in OCT evaluations. <i>Acta Ophthalmologica</i> , 0, 86, 0-0.	0.6	0

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91	Risk markers for progression of mild nonproliferative retinopathy to clinically significant macular edema in type 2 diabetic patients. <i>Acta Ophthalmologica</i> , 0, 86, 0-0.	0.6	0
92	Retinal thickness vs. retinal sensitivity at the central human macula. <i>Acta Ophthalmologica</i> , 0, 86, 0-0.	0.6	0
93	Retinal Aging in 3Å— Tg-AD Mice Model of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	4