

Delia Cabrera DeBuc

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

1,937
citations

279487

23
h-index

288905

40
g-index

79
all docs

79
docs citations

79
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning based retinal OCT segmentation. Computers in Biology and Medicine, 2019, 114, 103445.	3.9	127
2	Delineating fluid-filled region boundaries in optical coherence tomography images of the retina. IEEE Transactions on Medical Imaging, 2005, 24, 929-945.	5.4	105
3	APOSTEL 2.0 Recommendations for Reporting Quantitative Optical Coherence Tomography Studies. Neurology, 2021, 97, 68-79.	1.5	96
4	Real-Time Automatic Segmentation of Optical Coherence Tomography Volume Data of the Macular Region. PLoS ONE, 2015, 10, e0133908.	1.1	93
5	Developing retinal biomarkers for the earliest stages of Alzheimer's disease: What we know, what we don't, and how to move forward. Alzheimer's and Dementia, 2020, 16, 229-243.	0.4	92
6	Retinal imaging in Alzheimer's and neurodegenerative diseases. Alzheimer's and Dementia, 2021, 17, 103-111.	0.4	89
7	Retinal microvascular network alterations: potential biomarkers of cerebrovascular and neural diseases. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H201-H212.	1.5	82
8	Retinal Basement Membrane Abnormalities and the Retinopathy of Alport Syndrome. , 2010, 51, 1621.		80
9	Performance evaluation of automated segmentation software on optical coherence tomography volume data. Journal of Biophotonics, 2016, 9, 478-489.	1.1	71
10	Macular morphology assessed by optical coherence tomography image segmentation after femtosecond laser-assisted and standard cataract surgery. Journal of Cataract and Refractive Surgery, 2012, 38, 941-946.	0.7	66
11	Reliability and reproducibility of macular segmentation using a custom-built optical coherence tomography retinal image analysis software. Journal of Biomedical Optics, 2009, 14, 064023.	1.4	57
12	Early detection of retinal thickness changes in diabetes using Optical Coherence Tomography. Medical Science Monitor, 2010, 16, MT15-21.	0.5	57
13	Functional slit lamp biomicroscopy for imaging bulbar conjunctival microvasculature in contact lens wearers. Microvascular Research, 2014, 92, 62-71.	1.1	54
14	In Vivo Evaluation of Retinal Neurodegeneration in Patients with Multiple Sclerosis. PLoS ONE, 2012, 7, e30922.	1.1	48
15	The Structure and Function of the Macula in Patients with Advanced Retinitis Pigmentosa. , 2011, 52, 8425.		46
16	Impaired retinal microcirculation in multiple sclerosis. Multiple Sclerosis Journal, 2016, 22, 1812-1820.	1.4	46
17	Investigating Multimodal Diagnostic Eye Biomarkers of Cognitive Impairment by Measuring Vascular and Neurogenic Changes in the Retina. Frontiers in Physiology, 2018, 9, 1721.	1.3	44
18	Finite element analysis applied to cornea reshaping. Journal of Biomedical Optics, 2005, 10, 064018.	1.4	42

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19	The Role of Retinal Imaging and Portable Screening Devices in Tele-ophthalmology Applications for Diabetic Retinopathy Management. <i>Current Diabetes Reports</i> , 2016, 16, 132.	1.7	42
20	Automated segmentation and fractal analysis of high-resolution non-invasive capillary perfusion maps of the human retina. <i>Microvascular Research</i> , 2013, 89, 172-175.	1.1	36
21	Identification of Retinal Biomarkers in Alzheimer's Disease Using Optical Coherence Tomography: Recent Insights, Challenges, and Opportunities. <i>Journal of Clinical Medicine</i> , 2019, 8, 996.	1.0	36
22	Relationship between the morphology of the foveal avascular zone, retinal structure, and macular circulation in patients with diabetes mellitus. <i>Scientific Reports</i> , 2018, 8, 5355.	1.6	34
23	Vessel Sampling and Blood Flow Velocity Distribution With Vessel Diameter for Characterizing the Human Bulbar Conjunctival Microvasculature. <i>Eye and Contact Lens</i> , 2016, 42, 135-140.	0.8	32
24	A Morphological Study of Retinal Changes in Unilateral Amblyopia Using Optical Coherence Tomography Image Segmentation. <i>PLoS ONE</i> , 2014, 9, e88363.	1.1	31
25	Measurement variability of the bulbar conjunctival microvasculature in healthy subjects using functional slit lamp biomicroscopy (FSLB). <i>Microvascular Research</i> , 2015, 101, 15-19.	1.1	30
26	Automated classifiers for early detection and diagnosis of retinopathy in diabetic eyes. <i>BMC Bioinformatics</i> , 2014, 15, 106.	1.2	24
27	In Vivo Characterization of Retinal Microvascular Network in Multiple Sclerosis. <i>Ophthalmology</i> , 2016, 123, 437-438.	2.5	24
28	The Effect of Axial Length on the Thickness of Intraretinal Layers of the Macula. <i>PLoS ONE</i> , 2015, 10, e0142383.	1.1	24
29	Human conjunctival microvasculature assessed with a retinal function imager (RFI). <i>Microvascular Research</i> , 2013, 85, 134-137.	1.1	22
30	Guest Editorial: Special Issue on Imaging-Based Diagnosis of COVID-19. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2569-2571.	5.4	22
31	A Finite Element Model for Ultrafast Laser-Lamellar Keratoplasty. <i>Annals of Biomedical Engineering</i> , 2006, 34, 169-183.	1.3	20
32	Improving image segmentation performance and quantitative analysis via a computer-aided grading methodology for optical coherence tomography retinal image analysis. <i>Journal of Biomedical Optics</i> , 2010, 15, 046015.	1.4	19
33	Fractal-based analysis of optical coherence tomography data to quantify retinal tissue damage. <i>BMC Bioinformatics</i> , 2014, 15, 295.	1.2	19
34	Comparison of retinal thickness by Fourier-domain optical coherence tomography and OCT retinal image analysis software segmentation analysis derived from Stratus optical coherence tomography images. <i>Journal of Biomedical Optics</i> , 2011, 16, 056004.	1.4	18
35	Optical coherence tomography for assessment of epithelialization in a human ex vivo wound model. <i>Wound Repair and Regeneration</i> , 2017, 25, 1017-1026.	1.5	18
36	Quantitative analysis of the intraretinal layers and optic nerve head using ultra-high resolution optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 066013.	1.4	17

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37	Investigating the Fractal Dimension of the Foveal Microvasculature in Relation to the Morphology of the Foveal Avascular Zone and to the Macular Circulation in Patients With Type 2 Diabetes Mellitus. <i>Frontiers in Physiology</i> , 2018, 9, 1233.	1.3	17
38	Investigating Tissue Optical Properties and Texture Descriptors of the Retina in Patients with Multiple Sclerosis. <i>PLoS ONE</i> , 2015, 10, e0143711.	1.1	17
39	Investigation of changes in thickness and reflectivity from layered retinal structures of healthy and diabetic eyes with optical coherence tomography. <i>Journal of Biomedical Science and Engineering</i> , 2011, 04, 657-665.	0.2	16
40	Portable, non-invasive video imaging of retinal blood flow dynamics. <i>Scientific Reports</i> , 2020, 10, 20236.	1.6	11
41	Retinal Layer Thickness Changes in Eyes with Preserved Visual Acuity and Diffuse Diabetic Macular Edema on Optical Coherence Tomography. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2010, 41, 593-597.	0.4	11
42	Assesment of Conjunctival Microangiopathy in a Patient with Diabetes Mellitus Using the Retinal Function Imager. <i>Journal of Clinical & Experimental Ophthalmology</i> , 2015, 06, .	0.1	9
43	Interactive retinal blood flow analysis of the macular region. <i>Microvascular Research</i> , 2016, 104, 1-10.	1.1	9
44	Use of XyCAM RI for Noninvasive Visualization and Analysis of Retinal Blood Flow Dynamics During Clinical Investigations. <i>Expert Review of Medical Devices</i> , 2021, 18, 225-237.	1.4	9
45	Assessment of potential vessel segmentation pitfalls in the analysis of blood flow velocity using the Retinal Function Imager. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 1075-1081.	1.0	8
46	The Use of Optical Coherence Tomography for the Detection of Early Diabetic Retinopathy. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2018, 235, 377-384.	0.3	7
47	The effect of incorrect scanning distance on boundary detection errors and macular thickness measurements by spectral domain optical coherence tomography: a cross sectional study. <i>BMC Ophthalmology</i> , 2014, 14, 148.	0.6	6
48	Reflectance and Thickness Analysis of Retinal Layers in Patients with Epiretinal Membranes Using Spectral-Domain OCT before and after Vitrectomy with Membrane Peeling. <i>Ophthalmology Retina</i> , 2019, 3, 371-378.	1.2	6
49	Investigating Vascular Complexity and Neurogenic Alterations in Sectoral Regions of the Retina in Patients With Cognitive Impairment. <i>Frontiers in Physiology</i> , 2020, 11, 570412.	1.3	6
50	Retinal oximetry using ultrahigh-resolution optical coherence tomography. <i>Clinical Ophthalmology</i> , 2012, 6, 2085.	0.9	5
51	Distinguishing cognitive impairment by using singularity spectrum and lacunarity analysis of the retinal vascular network. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	5
52	Two-dimensional fractal analysis of retinal tissue of healthy and diabetic eyes with optical coherence tomography. <i>Journal of Biomedical Photonics and Engineering</i> , 2016, 2, 040302.	0.4	5
53	Layer extraction in rodent retinal images acquired by optical coherence tomography. <i>Machine Vision and Applications</i> , 2012, 23, 1129-1139.	1.7	4
54	Reflectivity and thickness analysis of epiretinal membranes using spectral-domain optical coherence tomography. <i>International Journal of Ophthalmology</i> , 2016, 9, 93-8.	0.5	3

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55	OCT Segmentation via Deep Learning: A Review of Recent Work. Lecture Notes in Computer Science, 2019, , 316-322.	1.0	3
56	The Assessment of Blood Flow Velocities in Retinal Collaterals in Diabetic Retinopathy. Klinische Monatsblätter Fur Augenheilkunde, 2019, 236, 530-535.	0.3	3
57	A recommended "minimum data set" framework for SD-OCT retinal image acquisition and analysis from the Atlas of Retinal Imaging in Alzheimer's Study (ARIAS). Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12119.	1.2	3
58	Noninvasive, High-Resolution Functional Macular Imaging in Subjects With Retinal Vein Occlusion. Ophthalmic Surgery Lasers and Imaging Retina, 2017, 48, 799-809.	0.4	3
59	TD-10: IDENTIFICATION OF RETINAL BIOMARKERS IN ALZHEIMER'S DISEASE USING OPTICAL COHERENCE TOMOGRAPHY: RECENT INSIGHTS, CHALLENGES AND OPPORTUNITIES. Alzheimer's and Dementia, 2019, 15, .	0.4	2
60	Seeing the Brain Through the Eye: What Is Next for Neuroimaging and Neurology Applications. , 2020, , 55-82.		2
61	The assessment of acute chorioretinal changes due to intensive physical exercise in young adults. PLoS ONE, 2022, 17, e0268770.	1.1	2
62	Extracting Diagnostic Information from Optical Coherence Tomography Images of Diabetic Retinal Tissues Using Depth-dependent Attenuation rate and Fractal Analysis. , 2012, , .		1
63	P3-079: INVESTIGATING DIAGNOSTIC BIOMARKERS OF COGNITIVE IMPAIRMENT BY UTILIZING VASCULAR AND NEUROGENIC CHANGES IN THE RETINA. Alzheimer's and Dementia, 2018, 14, P1095.	0.4	1
64	A Review on Recent Patents on Optical Coherence Tomography Applications in Ophthalmology. Recent Patents on Medical Imaging, 2012, 2, 2-5.	0.1	0
65	Reply: Comparison of macular morphology between femtosecond laser-assisted and traditional cataract surgery. Journal of Cataract and Refractive Surgery, 2013, 39, 657-659.	0.7	0
66	Directional OCT Scans of the Macula Reveal Henle Fibre Layer-Related Imaging Patterns. Klinische Monatsblätter Fur Augenheilkunde, 2017, 234, 534-535.	0.3	0
67	Masking Artefact Indicates that Photoreceptor Bleaching May Enhance Fundus Autofluorescence. Klinische Monatsblätter Fur Augenheilkunde, 2017, 234, 536-537.	0.3	0
68	Fundamentals of Retinal Optical Coherence Tomography. Biological and Medical Physics Series, 2019, , 27-37.	0.3	0
69	Investigating predictive models for earlier diagnosis of cognitive impairment using multimodal eye biomarkers. Alzheimer's and Dementia, 2020, 16, e040000.	0.4	0
70	Investigating retinal blood flow characteristics and amyloid formation in patients with type 2 diabetes and mild cognitive impairment. Alzheimer's and Dementia, 2020, 16, e045626.	0.4	0
71	Exploratory study of non-invasive, high-resolution functional macular imaging in subjects with diabetic retinopathy. International Journal of Ophthalmology, 2021, 14, 57-63.	0.5	0
72	Quantification of the retinal vascular network structure: towards effective monitoring of vessel architecture modulation in diabetic retinopathy. , 0, , .		0

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73	Recent Developments of Retinal Image Analysis in Alzheimer's Disease and Potential AI Applications. Lecture Notes in Computer Science, 2019, , 261-275.	1.0	0
74	Diagnostic Capability of Optical Coherence Tomography Based Quantitative Analysis for Various Eye Diseases and Additional Factors Affecting Morphological Measurements. Biological and Medical Physics Series, 2019, , 131-167.	0.3	0
75	Pediatric Neuro-Ophthalmology and OCT. , 2020, , 487-505.		0
76	Artificial intelligence in the ophthalmic landscape. Nepalese Journal of Ophthalmology, 2020, 12, 1-3.	0.1	0
77	Laser speckle-based retinal imager as a potential screening tool for mild cognitive impairment. Alzheimer's and Dementia, 2021, 17, .	0.4	0