

Kostadinka Bizheva

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

671
citations

759233

12
h-index

713466

21
g-index

28
all docs

28
docs citations

28
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	General Bayesian estimation for speckle noise reduction in optical coherence tomography retinal imagery. <i>Optics Express</i> , 2010, 18, 8338.	3.4	165
2	Swelling of the Human Cornea Revealed by High-Speed, Ultrahigh-Resolution Optical Coherence Tomography. , 2010, 51, 4579.		64
3	250 kHz, 15 Åµm resolution SD-OCT for in-vivo cellular imaging of the human cornea. <i>Biomedical Optics Express</i> , 2018, 9, 6569.	2.9	64
4	Limiting factors to the OCT axial resolution for in-vivo imaging of human and rodent retina in the 1060nm wavelength range. <i>Optics Express</i> , 2009, 17, 24304.	3.4	55
5	Sub-micrometer axial resolution OCT for in-vivo imaging of the cellular structure of healthy and keratoconic human corneas. <i>Biomedical Optics Express</i> , 2017, 8, 800.	2.9	52
6	In Vivo Imaging and Morphometry of the Human Pre-Descemet's Layer and Endothelium With Ultrahigh-Resolution Optical Coherence Tomography. , 2016, 57, 2782.		36
7	Stochastic speckle noise compensation in optical coherence tomography using non-stationary spline-based speckle noise modelling. <i>Biomedical Optics Express</i> , 2013, 4, 1769.	2.9	27
8	In vivo imaging of intrinsic optical signals in chicken retina with functional optical coherence tomography. <i>Optics Letters</i> , 2011, 36, 4575.	3.3	25
9	In-vivo imaging of the palisades of Vogt and the limbal crypts with sub-micrometer axial resolution optical coherence tomography. <i>Biomedical Optics Express</i> , 2017, 8, 4141.	2.9	24
10	Enhancement of morphological and vascular features in OCT images using a modified Bayesian residual transform. <i>Biomedical Optics Express</i> , 2018, 9, 2394.	2.9	23
11	Short-Term Moderately Elevated Intraocular Pressure Is Associated With Elevated Scotopic Electroretinogram Responses. , 2016, 57, 2140.		20
12	Automated detection and cell density assessment of keratocytes in the human corneal stroma from ultrahigh resolution optical coherence tomograms. <i>Biomedical Optics Express</i> , 2011, 2, 2905.	2.9	16
13	Structural, functional and blood perfusion changes in the rat retina associated with elevated intraocular pressure, measured simultaneously with a combined OCT+ERG system. <i>PLoS ONE</i> , 2018, 13, e0193592.	2.5	16
14	Line-scanning SD-OCT for in-vivo, non-contact, volumetric, cellular resolution imaging of the human cornea and limbus. <i>Biomedical Optics Express</i> , 2022, 13, 4007.	2.9	13
15	Pigmented and albino rats differ in their responses to moderate, acute and reversible intraocular pressure elevation. <i>Documenta Ophthalmologica</i> , 2017, 134, 205-219.	2.2	12
16	Combined optical coherence tomography and electroretinography system for in vivo simultaneous morphological and functional imaging of the rodent retina. <i>Journal of Biomedical Optics</i> , 2010, 15, 040506.	2.6	11
17	Analysis of scattering statistics and governing distribution functions in optical coherence tomography. <i>Biomedical Optics Express</i> , 2016, 7, 2551.	2.9	11
18	Isoflurane and ketamine:xylazine differentially affect intraocular pressure-associated scotopic threshold responses in Sprague-Dawley rats. <i>Documenta Ophthalmologica</i> , 2017, 135, 121-132.	2.2	9

#	ARTICLE	IF	CITATIONS
19	Morphological and functional changes in the rat retina associated with 2 months of intermittent moderate intraocular pressure elevation. <i>Scientific Reports</i> , 2018, 8, 7727.	3.3	7
20	Impact of contact lens wear on epithelial alterations in keratoconus. <i>Journal of Optometry</i> , 2021, 14, 37-43.	1.3	6
21	Quantitative assessment of oral microstructural and microvascular changes in late oral radiation toxicity, using noninvasive in-vivo optical coherence tomography. <i>Photonics & Lasers in Medicine</i> , 2016, 5, .	0.2	3
22	Dense concentric circle scanning protocol for measuring pulsatile retinal blood flow in rats with Doppler optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	3
23	A cellular automata based semi-automatic algorithm for segmentation of choroidal blood vessels from ultrahigh resolution optical coherence images of rat retina. , 2010, , .		2
24	Undecimated hierarchical active contours for oct image segmentation. , 2014, , .		2
25	Relationship between vessel diameter and depth measurements within the limbus using ultra-high resolution optical coherence tomography. <i>Journal of Optometry</i> , 2018, 11, 57-65.	1.3	2
26	Fully automated corneal nerve segmentation algorithm for corneal nerves analysis from UHR-OCT images. , 2019, , .		2
27	Correlating optical coherence tomography images with dose distribution in late oral radiation toxicity patients. <i>Photonics & Lasers in Medicine</i> , 2014, 3, .	0.2	1
28	Automatic tracking of pupillary dynamics from <i>in vivo</i> functional optical coherence tomography images. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2016, 4, 306-316.	1.9	0