

Pengfei Zhang

List of Publications by Year in descending order

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53
papers

867
citations

566801

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54
all docs

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docs citations

54
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Volumetric data analysis enabled spatially resolved optoretinogram to measure the functional signals in the living retina. <i>Journal of Biophotonics</i> , 2022, 15, e202100252.	1.1	9
2	Extraction of phase-based optoretinograms (ORG) from serial B-scans acquired by clinical-grade raster scanning OCT system. , 2022, , .		0
3	Extraction of phase-based optoretinograms (ORG) from serial B-scans acquired over tens of seconds by mouse retinal raster scanning OCT system. <i>Biomedical Optics Express</i> , 2021, 12, 7849.	1.5	9
4	Progress in measurements and interpretation of light-evoked retinal function using OCT based optoretinography (ORG). , 2021, , .		0
5	Effects of intravitreal injection of human CD34+ bone marrow stem cells in a murine model of diabetic retinopathy. <i>Experimental Eye Research</i> , 2020, 190, 107865.	1.2	24
6	The <i>Atoh7</i> remote enhancer provides transcriptional robustness during retinal ganglion cell development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21690-21700.	3.3	36
7	Measurement of Diurnal Variation in Rod Outer Segment Length In Vivo in Mice With the OCT Optoretinogram. , 2020, 61, 9.		25
8	Factors Impacting Efficacy of AAV-Mediated CRISPR-Based Genome Editing for Treatment of Choroidal Neovascularization. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 17, 409-417.	1.8	26
9	Review of Advances in Ophthalmic Optical Imaging Technologies from Several Mouse Retinal Imaging Methods. <i>Zhongguo Jiguang/Chinese Journal of Lasers</i> , 2020, 47, 0207003.	0.2	2
10	A Novel Reporter Mouse Uncovers Endogenous Brn3b Expression. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2903.	1.8	5
11	A multi-objective optimal design methodology for solid core no-thrust-disk/thrust hybrid magnetic bearings considering eddy-current effects and leakage. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 61, 13-42.	0.3	3
12	In vivo imaging reveals transient microglia recruitment and functional recovery of photoreceptor signaling after injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16603-16612.	3.3	46
13	Directional optical coherence tomography reveals melanin concentration-dependent scattering properties of retinal pigment epithelium. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	46
14	Temporal speckle-averaging of optical coherence tomography volumes for in-vivo cellular resolution neuronal and vascular retinal imaging. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	25
15	Novel window for cancer nanotheranostics: non-invasive ocular assessments of tumor growth and nanotherapeutic treatment efficacy in vivo. <i>Biomedical Optics Express</i> , 2019, 10, 151.	1.5	13
16	Aperture phase modulation with adaptive optics: a novel approach for speckle reduction and structure extraction in optical coherence tomography. <i>Biomedical Optics Express</i> , 2019, 10, 552.	1.5	17
17	Adaptive optics in the mouse eye: wavefront sensing based vs image-guided aberration correction. <i>Biomedical Optics Express</i> , 2019, 10, 4757.	1.5	15
18	Multiscale Hessian filtering for enhancement of OCT angiography images. , 2019, , .		14

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19	Progress in OCT based functional cellular resolution retinal imaging in mice: application of temporal super averaging. , 2019, , .		0
20	Effect of a contact lens on mouse retinal in vivo imaging: Effective focal length changes and monochromatic aberrations. Experimental Eye Research, 2018, 172, 86-93.	1.2	27
21	Feasibility study of Raman spectroscopy for investigating the mouse retina in vivo. , 2018, , .		0
22	Adaptive optics with combined optical coherence tomography and scanning laser ophthalmoscopy for in vivo mouse retina imaging. , 2018, , .		0
23	Investigation of the effect of directional (off-axis) illumination on the reflectivity of retina layers in mice using swept-source optical coherence tomography. , 2018, , .		2
24	In vivo optophysiology reveals that G-protein activation triggers osmotic swelling and increased light scattering of rod photoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2937-E2946.	3.3	106
25	Rapid monocyte infiltration following retinal detachment is dependent on non-canonical IL6 signaling through gp130. Journal of Neuroinflammation, 2017, 14, 121.	3.1	18
26	Intravitreal Administration of Human Bone Marrow CD34+ Stem Cells in a Murine Model of Retinal Degeneration. , 2016, 57, 4125.		34
27	The Photosensitivity of Rhodopsin Bleaching and Light-Induced Increases of Fundus Reflectance in Mice Measured In Vivo With Scanning Laser Ophthalmoscopy. , 2016, 57, 3650.		29
28	Fluorescent scanning laser ophthalmoscopy for cellular resolution in vivo mouse retinal imaging: benefits and drawbacks of implementing adaptive optics. , 2016, , .		0
29	Visualization of chorioretinal vasculature in mice in vivo using a combined OCT/SLO imaging system. , 2016, , .		1
30	New Developments in Murine Imaging for Assessing Photoreceptor Degeneration In Vivo. Advances in Experimental Medicine and Biology, 2016, 854, 269-275.	0.8	2
31	Comparison of a novel adaptive lens with deformable mirrors and its application in high-resolution in-vivo OCT imaging. , 2015, , .		0
32	Multispectral scanning laser ophthalmoscopy combined with optical coherence tomography for simultaneous<i>in vivo</i> mouse retinal imaging. Proceedings of SPIE, 2015, , .	0.8	2
33	<i>In vivo</i> wide-field multispectral scanning laser ophthalmoscopyâ€“optical coherence tomography mouse retinal imager: longitudinal imaging of ganglion cells, microglia, and MÃ¼ller glia, and mapping of the mouse retinal and choroidal vasculature. Journal of Biomedical Optics, 2015, 20, 126005.	1.4	64
34	Effect of scanning beam size on the lateral resolution of mouse retinal imaging with SLO. Optics Letters, 2015, 40, 5830.	1.7	20
35	Progress on developing wavefront sensorless adaptive optics optical coherence tomography for in vivo retinal imaging in mice. Proceedings of SPIE, 2015, , .	0.8	0
36	Adaptive-optics SLO imaging combined with widefield OCT and SLO enables precise 3D localization of fluorescent cells in the mouse retina. Biomedical Optics Express, 2015, 6, 2191.	1.5	53

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37	Wavefront correction and high-resolution in vivo OCT imaging with an objective integrated multi-actuator adaptive lens. Optics Express, 2015, 23, 21931.	1.7	72
38	Wavefront Sensorless Adaptive Optics for Ophthalmic Imaging. , 2015, , .		0
39	Evaluation of state-of-the-art imaging systems for in vivo monitoring of retinal structure in mice: current capabilities and limitations. , 2014, , .		5
40	Evaluation of OCT for quantitative in-vivo measurements of changes in neural tissue scattering in longitudinal studies of retinal degeneration in mice. Proceedings of SPIE, 2014, , .	0.8	3
41	Optical coherence tomography as a tool for characterization of complex biological surfaces. Journal of Microscopy, 2014, 255, 150-157.	0.8	1
42	Suppression of stitching edge artifacts with weighting technique. Optical Engineering, 2014, 53, 054106.	0.5	0
43	Rapid light-induced activation of retinal microglia in mice lacking Arrestin-1. Vision Research, 2014, 102, 71-79.	0.7	37
44	Imaging single chiral nanoparticles in turbid media using circular-polarization optical coherence microscopy. Scientific Reports, 2014, 4, 4979.	1.6	10
45	Dark-field circular depolarization optical coherence microscopy. Biomedical Optics Express, 2013, 4, 1683.	1.5	5
46	High Sensitivity in Detecting Chiral Nanoparticles Using Optical Coherence Tomography. , 2013, , .		0
47	Simple method for the implementation of subaperture stitching interferometry. Optical Engineering, 2011, 50, 095601.	0.5	5
48	Design of an optical system consisting of a special telecentric lens for side-scattering measurement on individual cells. Optical Engineering, 2010, 49, 053001.	0.5	10
49	Sub-aperture stitching interferometry using stereovision positioning technique. Optics Express, 2010, 18, 15216.	1.7	37
50	Optical 3D shape measurement for dynamic object using color fringe pattern projection and empirical mode decomposition. Proceedings of SPIE, 2009, , .	0.8	2
51	New 3D high-accuracy optical coordinates measuring technique based on an infrared target and binocular stereo vision. Proceedings of SPIE, 2009, , .	0.8	6
52	Sheath flow stability controlling research in dynamic individual particles scattering measurement. Proceedings of SPIE, 2009, , .	0.8	0
53	New approach to workpiece localization in subaperture stitching interferometric testing. , 2009, , .		1