

Karol Karnowski

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

885
citations

516215

16
h-index

525886

27
g-index

53
all docs

53
docs citations

53
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra high-speed swept source OCT imaging of the anterior segment of human eye at 200 kHz with adjustable imaging range. Optics Express, 2009, 17, 14880.	1.7	214
2	Assessment of corneal dynamics with high-speed swept source Optical Coherence Tomography combined with an air puff system. Optics Express, 2011, 19, 14188.	1.7	92
3	Corneal topography with high-speed swept source OCT in clinical examination. Biomedical Optics Express, 2011, 2, 2709.	1.5	83
4	Robust reconstruction of local optic axis orientation with fiber-based polarization-sensitive optical coherence tomography. Biomedical Optics Express, 2018, 9, 5437.	1.5	48
5	Swept source optical coherence tomography and tunable lens technology for comprehensive imaging and biometry of the whole eye. Optica, 2018, 5, 52.	4.8	43
6	Optical coherence microscopy as a novel, non-invasive method for the 4D live imaging of early mammalian embryos. Scientific Reports, 2017, 7, 4165.	1.6	42
7	Depth-resolved birefringence imaging of collagen fiber organization in the human oral mucosa in vivo. Biomedical Optics Express, 2019, 10, 1942.	1.5	41
8	Single shot, time-resolved measurement of the coherence properties of OCT swept source lasers. Optics Letters, 2015, 40, 2277.	1.7	38
9	Dynamics of a short cavity swept source OCT laser. Optics Express, 2014, 22, 18177.	1.7	36
10	Improved measurement of vibration amplitude in dynamic optical coherence elastography. Biomedical Optics Express, 2012, 3, 3138.	1.5	30
11	Multi-meridian corneal imaging of air-puff induced deformation for improved detection of biomechanical abnormalities. Biomedical Optics Express, 2020, 11, 6337.	1.5	28
12	Assessment of the influence of viscoelasticity of cornea in animal ex vivo model using air-puff optical coherence tomography and corneal hysteresis. Journal of Biophotonics, 2019, 12, e201800154.	1.1	24
13	Ultrahigh-resolution optical coherence elastography through a micro-endoscope: towards in vivo imaging of cellular-scale mechanics. Biomedical Optics Express, 2017, 8, 5127.	1.5	20
14	Vectorial birefringence imaging by optical coherence microscopy for assessing fibrillar microstructures in the cornea and limbus. Biomedical Optics Express, 2020, 11, 1122.	1.5	20
15	Quantitative optical inspection of contact lenses immersed in wet cell using swept source OCT. Optics Letters, 2014, 39, 4727.	1.7	19
16	Corneal Properties of Keratoconus Based on Scheimpflug Light Intensity Distribution. , 2019, 60, 3197.		18
17	Keratoconus Detection Based on a Single Scheimpflug Image. Translational Vision Science and Technology, 2020, 9, 36.	1.1	18
18	Label-free volumetric imaging of conjunctival collecting lymphatics ex vivo by optical coherence tomography lymphangiography. Journal of Biophotonics, 2018, 11, e201800070.	1.1	14

#	ARTICLE	IF	CITATIONS
19	Quantitative assessment of oral mucosa and labial minor salivary glands in patients with Sjögren's syndrome using swept source OCT. Biomedical Optics Express, 2014, 5, 259.	1.5	13
20	Jones matrix-based speckle decorrelation angiography using polarization-sensitive optical coherence tomography. Journal of Biophotonics, 2020, 13, e202000007.	1.1	12
21	Imaging of the lens capsule with an ultrahigh-resolution spectral optical coherence tomography prototype based on a femtosecond laser. British Journal of Ophthalmology, 2010, 94, 275-277.	2.1	10
22	Imaging the small with the small: Prospects for photonics in micro-endomicroscopy for minimally invasive cellular-resolution bioimaging. APL Photonics, 2021, 6, .	3.0	5
23	Tunable semiconductor laser at 1025-1095 nm range for OCT applications with an extended imaging depth. , 2015, , .		4
24	Optical Coherence Tomography Identifies Lower Labial Salivary Gland Surface Density in Cystic Fibrosis. PLoS ONE, 2015, 10, e0117517.	1.1	3
25	Swept source OCT with air puff chamber for corneal dynamics measurements. Proceedings of SPIE, 2012, , .	0.8	2
26	Optical Coherence Tomography of the Labial Salivary Glands Reveals Age-Related Differences in Women. Clinical and Translational Science, 2015, 8, 717-721.	1.5	2
27	Longitudinal in-vivo OCM imaging of glioblastoma development in the mouse brain. Biomedical Optics Express, 2020, 11, 5003.	1.5	2
28	Assessment of repeated reference measurements to inform the validity of optical breast spectroscopy. Review of Scientific Instruments, 2022, 93, 044101.	0.6	2
29	Swept source OCT imaging of human anterior segment at 200 kHz. , 2009, , .		1
30	Influence of tissue fixation on depth-resolved birefringence of oral cavity tissue samples. Journal of Biomedical Optics, 2020, 25, .	1.4	1
31	Cortical blood flow imaging of mouse stroke model by high-speed Spectral OCT. Proceedings of SPIE, 2011, , .	0.8	0
32	OCT detection of neural activity in American cockroach nervous system. Proceedings of SPIE, 2013, , .	0.8	0
33	Single-shot real-time electric-field reconstruction of a swept source laser. , 2015, , .		0
34	Non-contact investigation of the corneal biomechanics with air-puff swept source optical coherence tomography. , 2016, , .		0
35	Anterior segment and retinal OCT imaging with simplified sample arm using focus tunable lens technology (Conference Presentation). , 2016, , .		0
36	Coherence properties of fast frequency swept lasers revealed via full electric field reconstruction. Proceedings of SPIE, 2016, , .	0.8	0

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37	Evaluation of changes in birefringence for samples subjected to various stress sources measured with polarization-sensitive OCT. , 2017, , .		0
38	Local birefringence of the anterior segment of the human eye in a single capture with a full range polarisation-sensitive optical coherence tomography. Proceedings of SPIE, 2017, , .	0.8	0
39	Ex-vivo imaging of blood and lymphatic vessels in conjunctiva using optical coherence tomography. Proceedings of SPIE, 2017, , .	0.8	0
40	Ultrahigh resolution optical coherence elastography combined with a rigid micro-endoscope (Conference Presentation). , 2017, , .		0
41	Local polarization properties of human anterior segment with single-measurement, full-range polarization-sensitive OCT. , 2017, , .		0
42	Quantitative analysis of the human cornea using high-speed swept source OCT. , 2010, , .		0
43	Fourier domain OCT imaging of American cockroach nervous system. Proceedings of SPIE, 2012, , .	0.8	0
44	Estimation of vibration amplitude in Fourier domain optical coherence tomography interferometric signals from Doppler spectrum. , 2013, , .		0
45	Swept Source OCT of oral mucosa and labial salivary glands in cystic fibrosis. , 2014, , .		0
46	SS-OCT based evaluation of possible impact on vision quality caused by long-term wear of soft contact lenses. , 2015, , .		0
47	Optical Coherence Tomography in Ophthalmology: Current Applications and Future Directions. , 2017, , .		0
48	Preliminary results on in-vivo imaging of upper airway inhalation injuries using anatomical optical coherence tomography. Proceedings of SPIE, 2017, , .	0.8	0
49	Investigation of stress-induced birefringence of tissue determined with polarisation sensitive optical coherence tomography (Conference Presentation). , 2017, , .		0
50	Impact of diurnal IOP variations on the dynamic corneal hysteresis measured with air-puff swept-source OCT. Photonics Letters of Poland, 2018, 10, 64.	0.2	0
51	Corrections of motion artifacts in dynamic low-cost, swept-source optical coherence tomography. , 2021, , .		0
52	Influence of tissue fixation on depth-resolved birefringence of oral cavity tissue samples. Journal of Biomedical Optics, 2020, 25, .	1.4	0
53	Simultaneous multi-spot OCT measurements of air induced corneal deformations. , 2022, , .		0