Julia Walther

List of Publications by Year
in descending order

54 papers	590 citations	687363 13 h-index	610901 24 g-index
54 all docs	54 docs citations	54 times ranked	664 citing authors

#	Article	IF	Citations
1	Simultaneous dual-band optical coherence tomography in the spectral domain for high resolution in vivo imaging. Optics Express, 2009, 17, 19486.	3.4	110
2	Shear flow-induced optical inhomogeneity of blood assessed in vivo and in vitro by spectral domain optical coherence tomography in the 1.3 Î¼m wavelength range. Journal of Biomedical Optics, 2011, 16, 116020.	2.6	56
3	Optical coherence tomography in biomedical research. Analytical and Bioanalytical Chemistry, 2011, 400, 2721-2743.	3.7	51
4	Depth-resolved birefringence imaging of collagen fiber organization in the human oral mucosa in vivo. Biomedical Optics Express, 2019, 10, 1942.	2.9	41
5	Transverse motion as a source of noise and reduced correlation of the Doppler phase shift â€¨in spectral domain OCT. Optics Express, 2009, 17, 19698.	3.4	32
6	Detection of carious lesions utilizing depolarization imaging by polarization sensitive optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	30
7	Limits of Fourier domain Doppler-OCT at high velocities. Sensors and Actuators A: Physical, 2009, 156, 8-13.	4.1	24
8	Effects of axial, transverse, and oblique sample motion in FD OCT in systems with global or rolling shutter line detector. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2791.	1.5	23
9	Endoscopic optical coherence tomography with wide field-of-view for the morphological and functional assessment of the human tympanic membrane. Journal of Biomedical Optics, 2018, 24, 1.	2.6	23
10	In vivo imaging in the oral cavity by endoscopic optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	20
11	Endoscopic optical coherence tomography device for forward imaging with broad field of view. Journal of Biomedical Optics, 2012, 17, 1.	2.6	18
12	In vivo imaging of human oral hard and soft tissues by polarization-sensitive optical coherence tomography. Journal of Biomedical Optics, 2017, 22, 1.	2.6	17
13	In Vivo Endoscopic Optical Coherence Tomography of the Healthy Human Oral Mucosa: Qualitative and Quantitative Image Analysis. Diagnostics, 2020, 10, 827.	2.6	14
14	Signal power decrease due to fringe washout as an extension of the limited Doppler flow measurement range in spectral domain optical coherence tomography. Journal of Biomedical Optics, 2010, 15, 041511.	2.6	13
15	Relation of joint spectral and time domain optical coherence tomography (jSTdOCT) and phase-resolved Doppler OCT. Optics Express, 2014, 22, 23129.	3.4	13
16	Analysis of in vitro and in vivo bidirectional flow velocities by phase-resolved Doppler Fourier-domain OCT. Sensors and Actuators A: Physical, 2009, 156, 14-21.	4.1	12
17	In-vivo Fourier domain optical coherence tomography as a new tool for investigation of vasodynamics in the mouse model. Journal of Biomedical Optics, 2009, 14, 034027.	2.6	8
18	Application of optical and spectroscopic technologies for the characterization of carious lesions in vitro. Biomedizinische Technik, 2018, 63, 595-602.	0.8	8

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19	Investigation of murine vasodynamics by Fourier domain optical coherence tomography. , 2007, , .		7
20	Imaging of nanoparticle-labeled stem cells using magnetomotive optical coherence tomography, laser speckle reflectometry, and light microscopy. Journal of Biomedical Optics, 2015, 20, 036018.	2.6	7
21	Improved Imaging of Magnetically Labeled Cells Using Rotational Magnetomotive Optical Coherence Tomography. Applied Sciences (Switzerland), 2017, 7, 444.	2.5	6
22	Endoscopic optical coherence tomography for imaging the tympanic membrane. , 2011, , .		5
23	Visualization of dynamic boiling processes using high-speed optical coherence tomography. Experiments in Fluids, 2015, 56, 1.	2.4	5
24	Flow Measurement by Lateral Resonant Doppler Optical Coherence Tomography in the Spectral Domain. Applied Sciences (Switzerland), 2017, 7, 382.	2.5	5
25	Time-resolved blood flow measurement in the in vivo mouse model by optical frequency domain imaging. , 2009, , .		4
26	Flow measurement by using the signal decrease of moving scatterers in spatially encoded Fourier domain optical coherence tomography. , 2009, , .		4
27	Correlation between Lesion Progression and Depolarization Assessed by Polarization-Sensitive Optical Coherence Tomography. Applied Sciences (Switzerland), 2020, 10, 2971.	2.5	4
28	Impact of a detector dead time in phase-resolved Doppler analysis using spectral domain optical coherence tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 241.	1.5	4
29	Enhanced joint spectral and time domain optical coherence tomography for quantitative flow velocity measurement. Proceedings of SPIE, 2011, , .	0.8	3
30	Non-invasive imaging and monitoring of rodent retina using simultaneous dual-band optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	3
31	Magnetomotive imaging of iron oxide nanoparticles as cellular contrast agents for optical coherence tomography. Proceedings of SPIE, 2013, , .	0.8	3
32	Cross-sectional and en-face depolarization imaging for the assessment of dental lesions. Current Directions in Biomedical Engineering, 2018, 4, 301-304.	0.4	3
33	Resonant Doppler imaging with common path OCT. Proceedings of SPIE, 2009, , .	0.8	2
34	Optical Coherence Tomography for NDE. , 2018, , 1-44.		2
35	Detection of carious lesions utilizing depolarization imaging by polarization sensitive optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	2
36	Axial resolution improvement by spectral data fusion in simultaneous dual-band optical coherence tomography. , 2011, , .		1

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37	Lateral resonant Doppler imaging for quantitative flow extraction in spectral domain optical coherence tomography. , 2011, , .		1
38	Resolution improvement in dual-band OCT by filling the spectral gap. Proceedings of SPIE, 2012, , .	0.8	1
39	Velocity noise reduction by using enhanced joint spectral and time domain optical coherence tomography. , 2013, , .		1
40	InÂvivo imaging of murine vasodynamics analyzing different mouse strains by optical coherence tomography. Atherosclerosis Supplements, 2017, 30, 311-318.	1.2	1
41	Functional and morphological imaging of the human tympanic membrane with endoscopic optical coherence tomography. Current Directions in Biomedical Engineering, 2017, 3, 99-101.	0.4	1
42	Assessment of occlusal enamel alterations utilizing depolarization imaging based on PS-OCT. , 2019, , .		1
43	3D handheld endoscope for optical coherence tomography of the human oral mucosa in vivo. , 2017, , .		1
44	Investigations of the intravascular backscattering distribution of light in optical coherence tomography. Proceedings of SPIE, 2010, , .	0.8	0
45	The role of a detector dead time in phase-resolved Doppler analysis using spectral domain optical coherence tomography. , 2010, , .		0
46	14. Optische KohÃrenztomographie. , 2014, , 471-504.		0
47	Optimal processing of Doppler signals in OCT. , 2015, , .		0
48	Visualization of interfacial adhesive defects at dental restorations with spectral domain and polarization sensitive optical coherence tomography. Current Directions in Biomedical Engineering, 2018, 4, 559-562.	0.4	0
49	Imaging of the human tympanic membrane by endoscopic optical coherence tomography. Current Directions in Biomedical Engineering, 2018, 4, 305-308.	0.4	0
50	Optimal processing of Doppler signals in OCT. , 2015, , .		0
51	Lateral resonant Doppler flow measurement by spectral domain optical coherence tomography. , 2017, , .		0
52	Optical Coherence Tomography for NDE. , 2019, , 469-511.		0
53	Qualitative image comparison between in vivo endoscopic optical coherence tomography and conventional histology of the healthy human oral mucosa. , 2019, , .		0
54	Polarization-sensitive OCT using a single-mode fiber-based common-path probe. , 2021, , .		0