

# Iwona M Gorczyńska

## List of Publications by Year in descending order

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68  
papers

3,321  
citations

279798

23  
h-index

302126

39  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2634  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heinrich Mäüller (1820-1864) and the entoptic discovery of the site in the retina where vision is initiated. <i>Journal of the History of the Neurosciences</i> , 2022, 31, 64-90.	0.9	3
2	Blood flow rate estimation in optic disc capillaries and vessels using Doppler optical coherence tomography with 3D fast phase unwrapping. <i>Biomedical Optics Express</i> , 2020, 11, 1336.	2.9	7
3	Blood flow rate estimation in optic disc capillaries and vessels using Doppler optical coherence tomography. , 2020, , .		0
4	Megahertz-rate optical coherence tomography angiography improves the contrast of the choriocapillaris and choroid in human retinal imaging. <i>Biomedical Optics Express</i> , 2019, 10, 50.	2.9	39
5	Quality improvement of OCT angiograms with elliptical directional filtering. <i>Biomedical Optics Express</i> , 2019, 10, 1013.	2.9	19
6	Computationally effective 2D and 3D fast phase unwrapping algorithms and their applications to Doppler optical coherence tomography. <i>Biomedical Optics Express</i> , 2019, 10, 1365.	2.9	11
7	Complex fast phase unwrapping method for Doppler OCT. , 2019, , .		0
8	Intraframe motion correction for raster-scanned adaptive optics images using strip-based cross-correlation lag biases. <i>PLoS ONE</i> , 2018, 13, e0206052.	2.5	25
9	Imaging of the human choroid with a 1.7 MHz A-scan rate FDML swept source OCT system. <i>Proceedings of SPIE</i> , 2017, , .	0.8	10
10	The Properties of Outer Retinal Band Three Investigated With Adaptive-Optics Optical Coherence Tomography. , 2017, 58, 4559.		36
11	Challenges and advantages in wide-field optical coherence tomography angiography imaging of the human retinal and choroidal vasculature at 1.7-MHz A-scan rate. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	19
12	Comparison of amplitude-decorrelation, speckle-variance and phase-variance OCT angiography methods for imaging the human retina and choroid. <i>Biomedical Optics Express</i> , 2016, 7, 911.	2.9	122
13	En face projection imaging of the human choroidal layers with tracking SLO and swept source OCT angiography methods. , 2015, , .		2
14	Multimodal optical imaging system for in vivo investigation of cerebral oxygen delivery and energy metabolism. <i>Biomedical Optics Express</i> , 2015, 6, 4994.	2.9	31
15	Angio-OCT as a noninvasive tool for three-dimensional vascular network visualization in retinal diseases. , 2013, , .		0
16	OCT detection of neural activity in American cockroach nervous system. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
17	Real time 3D structural and Doppler OCT imaging on graphics processing units. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
18	Efficient reduction of speckle noise in Optical Coherence Tomography. <i>Optics Express</i> , 2012, 20, 1337.	3.4	154

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19	Microfluidics analysis of blood using joint spectral and time domain optical coherence tomography. Proceedings of SPIE, 2012, , .	0.8	0
20	Angiogram visualization and total velocity blood flow assessment based on intensity information analysis of OCT data. , 2012, , .		2
21	Multi-parametric imaging of murine brain using spectral and time domain optical coherence tomography. Journal of Biomedical Optics, 2012, 17, 101515.	2.6	5
22	Four-dimensional structural and Doppler optical coherence tomography imaging on graphics processing units. Journal of Biomedical Optics, 2012, 17, 1.	2.6	21
23	Spectral and time domain OCT: a tool for optimal imaging of biological samples. Proceedings of SPIE, 2012, , .	0.8	0
24	Fourier domain OCT imaging of American cockroach nervous system. Proceedings of SPIE, 2012, , .	0.8	0
25	Segmented scanning protocols for speckle contrast reduction in Spectral OCT images. , 2011, , .		0
26	Microvascular Oxygen Tension and Flow Measurements in Rodent Cerebral Cortex during Baseline Conditions and Functional Activation. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1051-1063.	4.3	54
27	INTACT RETINAL TISSUE AND RETINAL PIGMENT EPITHELIUM IDENTIFIED WITHIN A COLOBOMA BY HIGH-SPEED, ULTRAHIGH-RESOLUTION OPTICAL COHERENCE TOMOGRAPHY. Retinal Cases and Brief Reports, 2011, 5, 46-48.	0.6	1
28	COMPARISON OF SPECTRAL/FOURIER DOMAIN OPTICAL COHERENCE TOMOGRAPHY INSTRUMENTS FOR ASSESSMENT OF NORMAL MACULAR THICKNESS. Retina, 2010, 30, 235-245.	1.7	195
29	True velocity mapping using joint spectral and time domain optical coherence tomography. , 2010, , .		2
30	Blood flow measurement and slow flow detection in retinal vessels with joint spectral and time domain method in ultrahigh-speed OCT. , 2010, , .		1
31	Ultrahigh-speed volumetric ophthalmic OCT imaging at 850nm and 1050nm. Proceedings of SPIE, 2010, , .	0.8	1
32	Ultrahigh-speed imaging of the rat retina using ultrahigh-resolution spectral/Fourier domain OCT. Proceedings of SPIE, 2010, , .	0.8	0
33	Quantitative cerebral blood flow with Optical Coherence Tomography. Optics Express, 2010, 18, 2477.	3.4	239
34	Ultrahigh speed spectral/Fourier domain OCT imaging in ophthalmology. , 2009, , .		1
35	Projection OCT fundus imaging for visualising outer retinal pathology in non-exudative age-related macular degeneration. British Journal of Ophthalmology, 2009, 93, 603-609.	3.9	53
36	High-speed Ultrahigh Resolution Optical Coherence Tomography before and after Ranibizumab for Age-related Macular Degeneration. Ophthalmology, 2009, 116, 956-963.	5.2	42

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37	Depth-resolved microscopy of cortical hemodynamics with optical coherence tomography. Optics Letters, 2009, 34, 3086.	3.3	49
38	Three-dimensional ultrahigh resolution optical coherence tomography imaging of age-related macular degeneration. Optics Express, 2009, 17, 4046.	3.4	43
39	Comparison of reflectivity maps and outer retinal topography in retinal disease by 3-D Fourier domain optical coherence tomography. Optics Express, 2009, 17, 4189.	3.4	30
40	Anterior segment imaging with Spectral OCT system using a high-speed CMOS camera. Optics Express, 2009, 17, 4842.	3.4	193
41	Scanning protocols dedicated to smart velocity ranging in Spectral OCT. Optics Express, 2009, 17, 23736.	3.4	118
42	Ultrahigh speed spectral/Fourier domain ophthalmic OCT imaging. , 2009, , .		1
43	Ultrahigh speed Spectral / Fourier domain OCT ophthalmic imaging at 70,000 to 312,500 axial scans per second. Optics Express, 2008, 16, 15149.	3.4	429
44	Characterization of Outer Retinal Morphology with High-Speed, Ultrahigh-Resolution Optical Coherence Tomography. , 2008, 49, 1571.		261
45	HIGH-SPEED ULTRAHIGH-RESOLUTION OPTICAL COHERENCE TOMOGRAPHY FINDINGS IN CHRONIC SOLAR RETINOPATHY. Retinal Cases and Brief Reports, 2008, 2, 103-105.	0.6	15
46	Ultrahigh-Speed Optical Coherence Tomography for Three-Dimensional and En Face Imaging of the Retina and Optic Nerve Head. , 2008, 49, 5103.		283
47	Fourier Domain Mode Locking (FDML) in the non-zero dispersion regime: A laser for ultrahigh-speed retinal OCT imaging at 236kHz line rate. , 2007, , .		0
48	Fourier domain mode-locked (FDML) lasers at 1050 nm and 202,000 sweeps per second for OCT retinal imaging. , 2007, 6429, 33.		1
49	High-speed high-resolution OCT imaging of the retina with frequency swept lasers at 850 nm. , 2007, , .		0
50	High-speed, high-resolution optical coherence tomography retinal imaging with a frequency-swept laser at 850 nm. Optics Letters, 2007, 32, 361.	3.3	125
51	Comparison of three-dimensional optical coherence tomography and high resolution photography for art conservation studies. Optics Express, 2007, 15, 15972.	3.4	67
52	Retinal Imaging by Spectral Optical Coherence Tomography. European Journal of Ophthalmology, 2007, 17, 238-245.	1.3	7
53	High-speed, Ultrahigh Resolution Optical Coherence Tomography of the Retina in Hunter Syndrome. Ophthalmic Surgery Lasers and Imaging Retina, 2007, 38, 423-428.	0.7	18
54	Spectral optical coherence tomography for ophthalmologic applications. , 2006, , .		0

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55	Spectral Optical Coherence Tomography. Cornea, 2006, 25, 960-965.	1.7	100
56	Spectral optical coherence tomography: a new imaging technique in contact lens practice. Ophthalmic and Physiological Optics, 2006, 26, 127-132.	2.0	36
57	The applicability of standard resolution spectral optical coherence tomography for examination of the eye pathologies. , 2005, , .		0
58	Spectral optical coherence tomography in ophthalmology. , 2005, , .		0
59	Improved complex spectral domain OCT for in vivo eye imaging. Optics Communications, 2005, 249, 357-362.	2.1	38
60	Quality improvement for high resolution in vivo images by spectral domain optical coherence tomography with supercontinuum source. Optics Communications, 2005, 246, 569-578.	2.1	48
61	Coherent noise-free ophthalmic imaging by spectral optical coherence tomography. Journal Physics D: Applied Physics, 2005, 38, 2606-2611.	2.8	14
62	High Resolution Spectral Optical Coherence Tomography for Clinical Imaging of the Anterior Segment of the Eye. , 2005, , .		0
63	Standard Versus High Resolution Spectral Optical Coherence Tomography in Imaging of Retinal Pathologies. , 2005, , .		0
64	Complex spectral OCT in human eye imaging in vivo. Optics Communications, 2004, 229, 79-84.	2.1	55
65	Ophthalmic imaging by spectral optical coherence tomography. American Journal of Ophthalmology, 2004, 138, 412-419.	3.3	287
66	Static and dynamic spectral OCT imaging of human corneo-scleral junction in-vivo. , 2004, , .		0
67	Sampling function in en-face OCT. , 2003, 5140, 101.		0
68	Complex spectral OCT in human eye imaging in vivo. , 2003, 5140, 28.		5