

# 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	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
2	Ophthalmic imaging by spectral optical coherence tomography. American Journal of Ophthalmology, 2004, 138, 412-419.	3.3	287
3	Ultrahigh-Speed Optical Coherence Tomography for Three-Dimensional and En Face Imaging of the Retina and Optic Nerve Head. , 2008, 49, 5103.		283
4	Characterization of Outer Retinal Morphology with High-Speed, Ultrahigh-Resolution Optical Coherence Tomography. , 2008, 49, 1571.		261
5	Quantitative cerebral blood flow with Optical Coherence Tomography. Optics Express, 2010, 18, 2477.	3.4	239
6	COMPARISON OF SPECTRAL/FOURIER DOMAIN OPTICAL COHERENCE TOMOGRAPHY INSTRUMENTS FOR ASSESSMENT OF NORMAL MACULAR THICKNESS. Retina, 2010, 30, 235-245.	1.7	195
7	Anterior segment imaging with Spectral OCT system using a high-speed CMOS camera. Optics Express, 2009, 17, 4842.	3.4	193
8	Efficient reduction of speckle noise in Optical Coherence Tomography. Optics Express, 2012, 20, 1337.	3.4	154
9	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
10	Comparison of amplitude-decorrelation, speckle-variance and phase-variance OCT angiography methods for imaging the human retina and choroid. Biomedical Optics Express, 2016, 7, 911.	2.9	122
11	Scanning protocols dedicated to smart velocity ranging in Spectral OCT. Optics Express, 2009, 17, 23736.	3.4	118
12	Spectral Optical Coherence Tomography. Cornea, 2006, 25, 960-965.	1.7	100
13	Comparison of three-dimensional optical coherence tomography and high resolution photography for art conservation studies. Optics Express, 2007, 15, 15972.	3.4	67
14	Complex spectral OCT in human eye imaging in vivo. Optics Communications, 2004, 229, 79-84.	2.1	55
15	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
16	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
17	Depth-resolved microscopy of cortical hemodynamics with optical coherence tomography. Optics Letters, 2009, 34, 3086.	3.3	49
18	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

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19	Three-dimensional ultrahigh resolution optical coherence tomography imaging of age-related macular degeneration. <i>Optics Express</i> , 2009, 17, 4046.	3.4	43
20	High-speed Ultrahigh Resolution Optical Coherence Tomography before and after Ranibizumab for Age-related Macular Degeneration. <i>Ophthalmology</i> , 2009, 116, 956-963.	5.2	42
21	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
22	Improved complex spectral domain OCT for in vivo eye imaging. <i>Optics Communications</i> , 2005, 249, 357-362.	2.1	38
23	Spectral optical coherence tomography: a new imaging technique in contact lens practice. <i>Ophthalmic and Physiological Optics</i> , 2006, 26, 127-132.	2.0	36
24	The Properties of Outer Retinal Band Three Investigated With Adaptive-Optics Optical Coherence Tomography. , 2017, 58, 4559.		36
25	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
26	Comparison of reflectivity maps and outer retinal topography in retinal disease by 3-D Fourier domain optical coherence tomography. <i>Optics Express</i> , 2009, 17, 4189.	3.4	30
27	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
28	Four-dimensional structural and Doppler optical coherence tomography imaging on graphics processing units. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	21
29	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
30	Quality improvement of OCT angiograms with elliptical directional filtering. <i>Biomedical Optics Express</i> , 2019, 10, 1013.	2.9	19
31	High-speed, Ultrahigh Resolution Optical Coherence Tomography of the Retina in Hunter Syndrome. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2007, 38, 423-428.	0.7	18
32	HIGH-SPEED ULTRAHIGH-RESOLUTION OPTICAL COHERENCE TOMOGRAPHY FINDINGS IN CHRONIC SOLAR RETINOPATHY. <i>Retinal Cases and Brief Reports</i> , 2008, 2, 103-105.	0.6	15
33	Coherent noise-free ophthalmic imaging by spectral optical coherence tomography. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 2606-2611.	2.8	14
34	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
35	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
36	Retinal Imaging by Spectral Optical Coherence Tomography. <i>European Journal of Ophthalmology</i> , 2007, 17, 238-245.	1.3	7

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37	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
38	Complex spectral OCT in human eye imaging in vivo. , 2003, 5140, 28.		5
39	Multi-parametric imaging of murine brain using spectral and time domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 101515.	2.6	5
40	Real time 3D structural and Doppler OCT imaging on graphics processing units. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
41	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
42	True velocity mapping using joint spectral and time domain optical coherence tomography. , 2010, , .		2
43	Angiogram visualization and total velocity blood flow assessment based on intensity information analysis of OCT data. , 2012, , .		2
44	En face projection imaging of the human choroidal layers with tracking SLO and swept source OCT angiography methods. , 2015, , .		2
45	Fourier domain mode-locked (FDML) lasers at 1050 nm and 202,000 sweeps per second for OCT retinal imaging. , 2007, 6429, 33.		1
46	Ultrahigh speed spectral/Fourier domain OCT imaging in ophthalmology. , 2009, , .		1
47	Ultrahigh speed spectral/Fourier domain ophthalmic OCT imaging. , 2009, , .		1
48	Blood flow measurement and slow flow detection in retinal vessels with joint spectral and time domain method in ultrahigh-speed OCT. , 2010, , .		1
49	Ultrahigh-speed volumetric ophthalmic OCT imaging at 850nm and 1050nm. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
50	INTACT RETINAL TISSUE AND RETINAL PIGMENT EPITHELIUM IDENTIFIED WITHIN A COLOBOMA BY HIGH-SPEED, ULTRAHIGH-RESOLUTION OPTICAL COHERENCE TOMOGRAPHY. <i>Retinal Cases and Brief Reports</i> , 2011, 5, 46-48.	0.6	1
51	Sampling function in en-face OCT. , 2003, 5140, 101.		0
52	Static and dynamic spectral OCT imaging of human corneo-scleral junction in-vivo. , 2004, , .		0
53	The applicability of standard resolution spectral optical coherence tomography for examination of the eye pathologies. , 2005, , .		0
54	Spectral optical coherence tomography in ophthalmology. , 2005, , .		0

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55	Spectral optical coherence tomography for ophthalmologic applications. , 2006, , .		0
56	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
57	High-speed high-resolution OCT imaging of the retina with frequency swept lasers at 850 nm. , 2007, , .		0
58	Ultrahigh-speed imaging of the rat retina using ultrahigh-resolution spectral/Fourier domain OCT. Proceedings of SPIE, 2010, , .	0.8	0
59	Segmented scanning protocols for speckle contrast reduction in Spectral OCT images. , 2011, , .		0
60	Microfluidics analysis of blood using joint spectral and time domain optical coherence tomography. Proceedings of SPIE, 2012, , .	0.8	0
61	Spectral and time domain OCT: a tool for optimal imaging of biological samples. Proceedings of SPIE, 2012, , .	0.8	0
62	Angio-OCT as a noninvasive tool for three-dimensional vascular network visualization in retinal diseases. , 2013, , .		0
63	OCT detection of neural activity in American cockroach nervous system. Proceedings of SPIE, 2013, , .	0.8	0
64	High Resolution Spectral Optical Coherence Tomography for Clinical Imaging of the Anterior Segment of the Eye. , 2005, , .		0
65	Standard Versus High Resolution Spectral Optical Coherence Tomography in Imaging of Retinal Pathologies. , 2005, , .		0
66	Fourier domain OCT imaging of American cockroach nervous system. Proceedings of SPIE, 2012, , .	0.8	0
67	Complex fast phase unwrapping method for Doppler OCT. , 2019, , .		0
68	Blood flow rate estimation in optic disc capillaries and vessels using Doppler optical coherence tomography. , 2020, , .		0