

Andrzej Kowalczyk

List of Publications by Year in descending order

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74
papers

5,733
citations

185998

28
h-index

243296

44
g-index

75
all docs

75
docs citations

75
times ranked

3049
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high-resolution, high-speed, Fourier domain optical coherence tomography and methods for dispersion compensation. <i>Optics Express</i> , 2004, 12, 2404.	1.7	1,095
2	In vivo human retinal imaging by Fourier domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2002, 7, 457.	1.4	1,014
3	Three-dimensional Retinal Imaging with High-Speed Ultra-high-Resolution Optical Coherence Tomography. <i>Ophthalmology</i> , 2005, 112, 1734-1746.	2.5	633
4	Real-time in vivo imaging by high-speed spectral optical coherence tomography. <i>Optics Letters</i> , 2003, 28, 1745.	1.7	323
5	High-Definition and 3-dimensional Imaging of Macular Pathologies with High-speed Ultra-high-Resolution Optical Coherence Tomography. <i>Ophthalmology</i> , 2006, 113, 2054-2065.e3.	2.5	310
6	Ophthalmic imaging by spectral optical coherence tomography. <i>American Journal of Ophthalmology</i> , 2004, 138, 412-419.	1.7	287
7	Ultra high-speed swept source OCT imaging of the anterior segment of human eye at 200 kHz with adjustable imaging range. <i>Optics Express</i> , 2009, 17, 14880.	1.7	214
8	Anterior segment imaging with Spectral OCT system using a high-speed CMOS camera. <i>Optics Express</i> , 2009, 17, 4842.	1.7	193
9	Flow velocity estimation using joint Spectral and Time domain Optical Coherence Tomography. <i>Optics Express</i> , 2008, 16, 6008.	1.7	192
10	Efficient reduction of speckle noise in Optical Coherence Tomography. <i>Optics Express</i> , 2012, 20, 1337.	1.7	154
11	Improved spectral optical coherence tomography using optical frequency comb. <i>Optics Express</i> , 2008, 16, 4163.	1.7	121
12	Scanning protocols dedicated to smart velocity ranging in Spectral OCT. <i>Optics Express</i> , 2009, 17, 23736.	1.7	118
13	Three-dimensional quantitative imaging of retinal and choroidal blood flow velocity using joint Spectral and Time domain Optical Coherence Tomography. <i>Optics Express</i> , 2009, 17, 10584.	1.7	96
14	Assessment of corneal dynamics with high-speed swept source Optical Coherence Tomography combined with an air puff system. <i>Optics Express</i> , 2011, 19, 14188.	1.7	92
15	Phase-resolved Doppler optical coherence tomography—limitations and improvements. <i>Optics Letters</i> , 2008, 33, 1425.	1.7	90
16	The Application of Optical Coherence Tomography to Non-Destructive Examination of Museum Objects. <i>Studies in Conservation</i> , 2004, 49, 107-114.	0.6	87
17	Complex spectral OCT in human eye imaging in vivo. <i>Optics Communications</i> , 2004, 229, 79-84.	1.0	55
18	Degradation of postural control system as a consequence of Parkinson's disease and ageing. <i>Neuroscience Letters</i> , 2005, 376, 215-220.	1.0	50

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19	Quality improvement for high resolution in vivo images by spectral domain optical coherence tomography with supercontinuum source. <i>Optics Communications</i> , 2005, 246, 569-578.	1.0	48
20	Flow velocity estimation by complex ambiguity free joint Spectral and Time domain Optical Coherence Tomography. <i>Optics Express</i> , 2009, 17, 14281.	1.7	39
21	Improved complex spectral domain OCT for in vivo eye imaging. <i>Optics Communications</i> , 2005, 249, 357-362.	1.0	38
22	Drusen with Accompanying Fluid underneath the Sensory Retina. <i>Ophthalmology</i> , 2011, 118, 82-92.	2.5	38
23	Spectral optical coherence tomography: a new imaging technique in contact lens practice. <i>Ophthalmic and Physiological Optics</i> , 2006, 26, 127-132.	1.0	36
24	Analysis of posterior retinal layers in spectral optical coherence tomography images of the normal retina and retinal pathologies. <i>Journal of Biomedical Optics</i> , 2007, 12, 041207.	1.4	36
25	Determination of the Ground-State Dissociation Constant by Fluorometric Titration. <i>The Journal of Physical Chemistry</i> , 1994, 98, 8585-8590.	2.9	34
26	Species-associated spectra and upper and lower bounds on the rate constants of reversible intramolecular two-state excited-state processes with added quencher. Global compartmental analysis of the fluorescence decay surface. <i>The Journal of Physical Chemistry</i> , 1993, 97, 11738-11753.	2.9	32
27	One-step parameter estimation of the acid-base equilibria in the ground and excited states of 2-naphthol by global compartmental analysis of the fluorescence decay surface. <i>Chemical Physics</i> , 1992, 166, 249-258.	0.9	30
28	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.	1.7	30
29	Granular Corneal Dystrophy in 830-nm Spectral Optical Coherence Tomography. <i>Cornea</i> , 2008, 27, 830-832.	0.9	24
30	Spectral Optical Coherence Tomography in Video-Rate and 3D Imaging of Contact Lens Wear. <i>Optometry and Vision Science</i> , 2007, 84, E1104-E1109.	0.6	23
31	Potential Misevaluation of the Ground-State Dissociation Constant from Fluorimetric Titrations: Application to the Ion Indicators SBFI, PBF1, and Fura-2. <i>Analytical Biochemistry</i> , 1997, 245, 28-37.	1.1	19
32	Two-dimensional Langevin approach to the human stabilogram. <i>Human Movement Science</i> , 2004, 22, 649-660.	0.6	19
33	Analysis of the Outer Retina Reconstructed by High-Resolution, Three-Dimensional Spectral Domain Optical Coherence Tomography. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2009, 40, 102-108.	0.4	18
34	Fuchs' Endothelial Dystrophy in 830-nm Spectral Domain Optical Coherence Tomography. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2009, 40, 198-200.	0.4	17
35	Experimental Design in the Global Compartmental Analysis of Intermolecular Two-State Excited-State Processes. <i>The Journal of Physical Chemistry</i> , 1994, 98, 9503-9508.	2.9	16
36	Identifiability of Irreversible Intermolecular Two-State Excited-State Processes. <i>The Journal of Physical Chemistry</i> , 1996, 100, 4879-4887.	2.9	14

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37	Kinetics and Identifiability of an Intermolecular Two-State Excited-State Process in the Presence of a Fluorescent Impurity. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17349-17353.	2.9	10
38	Fourier domain OCT imaging of the human eye in vivo. , 2002, 4619, 230.		10
39	Imaging of the lens capsule with an ultrahigh-resolution spectral optical coherence tomography prototype based on a femtosecond laser. <i>British Journal of Ophthalmology</i> , 2010, 94, 275-277.	2.1	10
40	Identifiability of competitive intermolecular three-state excited-state processes. <i>Chemical Physics Letters</i> , 1996, 260, 326-330.	1.2	9
41	First-order statistics of human stabilogram. <i>Human Movement Science</i> , 2001, 20, 853-866.	0.6	7
42	Real-time in vivo ophthalmic imaging by ultrafast spectral optical coherence tomography. , 2003, 4956, 50.		6
43	Three-dimensional in vivo imaging by spectral OCT. , 2004, , .		6
44	In vivo imaging of posterior capsule opacification using Spectral Optical Coherence Tomography. <i>Journal of Cataract and Refractive Surgery</i> , 2006, 32, 1892-1895.	0.7	6
45	From medical to art diagnostics OCT: a novel tool for varnish ablation control. , 2007, , .		6
46	Complex spectral OCT in human eye imaging in vivo. , 2003, 5140, 28.		5
47	[6] Determination of ground-state dissociation constant by fluorescence spectroscopy. <i>Methods in Enzymology</i> , 1997, 278, 94-113.	0.4	4
48	Experimental Design in Global Compartmental Analysis of Reversible Intramolecular Two-State Excited-State Processes with Added Quencher. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1993-2002.	1.1	4
49	Spectral shaping and least square iterative deconvolution in spectral OCT. , 2004, , .		2
50	True velocity mapping using joint spectral and time domain optical coherence tomography. , 2010, , .		2
51	Swept source OCT with air puff chamber for corneal dynamics measurements. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
52	Real-time and static in vivo ophthalmic imaging by spectral optical coherence tomography. , 2004, 5314, 126.		1
53	Numerical estimation of the total phase shift in complex spectral OCT in vivo imaging. , 2004, 5316, 248.		1
54	Standard resolution spectral domain optical coherence tomography in clinical ophthalmic imaging. , 2005, , .		1

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55	Observation of blood optical inhomogeneity using joint spectral and time domain OCT. , 2010, , .		1
56	Velocity resolution and minimum detectable velocity in joint Spectral and Time domain OCT. , 2010, , .		1
57	Static and dynamic spectral OCT imaging of human corneo-scleral junction in-vivo. , 2004, , .		0
58	The spectral OCT image extracting without phase measurements. , 2005, , .		0
59	The applicability of standard resolution spectral optical coherence tomography for examination of the eye pathologies. , 2005, , .		0
60	Three-dimensional retinal imaging with ultrahigh resolution Fourier/spectral domain optical coherence tomography. , 2005, 5688, 90.		0
61	Full-range complex spectral domain optical coherence tomography with arbitrary or unknown phase. , 2005, , .		0
62	Clinical studies using ultrahigh resolution and high-speed optical coherence tomography. , 2005, , .		0
63	Simultaneous analysis of extinction and flow velocity with joint spectral and time domain OCT. , 2008, , .		0
64	Retinal blood flow analysis using joint spectral and time domain optical coherence tomography. Proceedings of SPIE, 2008, , .	0.8	0
65	Segmentation of flowing particles using joint spectral and time domain optical coherence tomography. , 2009, , .		0
66	Three-dimensional retinal blood flow analysis using joint spectral and time domain optical coherence tomography. Proceedings of SPIE, 2009, , .	0.8	0
67	Simultaneous complex ambiguity removal and quantitative flow velocity estimation with joint spectral and time domain OCT. Proceedings of SPIE, 2009, , .	0.8	0
68	High-speed optical coherence imaging: towards the structure and the physiology of living tissue. , 2010, , .		0
69	Real-time bulk motion insensitive flow segmentation algorithm for Doppler spectral optical coherence tomography. , 2010, , .		0
70	Segmented scanning protocols for speckle contrast reduction in Spectral OCT images. , 2011, , .		0
71	Cortical blood flow imaging of mouse stroke model by high-speed Spectral OCT. Proceedings of SPIE, 2011, , .	0.8	0
72	Volumetric Doppler imaging of small animal brain using spectral and time domain optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	0

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73	Microfluidics analysis of blood using joint spectral and time domain optical coherence tomography. Proceedings of SPIE, 2012, , .	0.8	0
74	Spectral Optical Coherence Tomography using scanning optical frequency comb generator. , 2008, , .		0