

Benjamin Potsaid

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

4,978
citations

26
h-index

58
g-index

58
ext. papers

6,005
ext. citations

3.5
avg, IF

5.03
L-index

#	Paper	IF	Citations
55	High speed, long range, deep penetration swept source OCT for structural and angiographic imaging of the anterior eye.. <i>Scientific Reports</i> , 2022 , 12, 992	4.9	0
54	Multi-MHz MEMS-VCSEL swept-source optical coherence tomography for endoscopic structural and angiographic imaging with miniaturized brushless motor probes. <i>Biomedical Optics Express</i> , 2021 , 12, 2384-2403	3.5	5
53	Reliable widely tunable electrically pumped 1050nm MEMS-VCSELs with amplifier in single butterfly co-package 2020 ,		2
52	Tethered capsule en face optical coherence tomography for imaging Barrett's oesophagus in unsedated patients. <i>BMJ Open Gastroenterology</i> , 2020 , 7,	3.9	6
51	Assessment of Barrett's esophagus and dysplasia with ultrahigh-speed volumetric en face and cross-sectional optical coherence tomography. <i>Endoscopy</i> , 2019 , 51, 355-359	3.4	9
50	Microscope-Integrated Intraoperative Ultrahigh-Speed Swept-Source Optical Coherence Tomography for Widefield Retinal and Anterior Segment Imaging. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2018 , 49, 94-102	1.4	11
49	Endoscopic optical coherence tomography angiography microvascular features associated with dysplasia in Barrett's esophagus (with video). <i>Gastrointestinal Endoscopy</i> , 2017 , 86, 476-484.e3	5.2	25
48	Ultrahigh-speed endoscopic optical coherence tomography and angiography enables delineation of lateral margins of endoscopic mucosal resection: a case report. <i>Therapeutic Advances in Gastroenterology</i> , 2017 , 10, 931-936	4.7	8
47	Cubic meter volume optical coherence tomography. <i>Optica</i> , 2016 , 3, 1496-1503	8.6	81
46	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. <i>Biomedical Optics Express</i> , 2016 , 7, 2927-42	3.5	23
45	TOWARD QUANTITATIVE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY: Visualizing Blood Flow Speeds in Ocular Pathology Using Variable Interscan Time Analysis. <i>Retina</i> , 2016 , 36 Suppl 1, S118-S126	3.6	83
44	Ultrahigh Speed OCT 2015 , 319-356		1
43	Ultrahigh speed en face OCT capsule for endoscopic imaging. <i>Biomedical Optics Express</i> , 2015 , 6, 1146-63	3.5	48
42	Wideband Electrically-Pumped 1050 nm MEMS-Tunable VCSEL for Ophthalmic Imaging. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3461-3468	4	49
41	VCSEL Swept Light Sources 2015 , 659-686		
40	Optical coherence tomography angiography of optic nerve head and parafovea in multiple sclerosis. <i>British Journal of Ophthalmology</i> , 2014 , 98, 1368-73	5.5	173
39	Quantitative optical coherence tomography angiography of choroidal neovascularization in age-related macular degeneration. <i>Ophthalmology</i> , 2014 , 121, 1435-44	7.3	550

38	Depth-encoded all-fiber swept source polarization sensitive OCT. <i>Biomedical Optics Express</i> , 2014 , 5, 2931-49	3.5	43
37	Correction of rotational distortion for catheter-based en face OCT and OCT angiography. <i>Optics Letters</i> , 2014 , 39, 5973-6	3	37
36	Ultrahigh-speed swept-source OCT angiography in exudative AMD. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2014 , 45, 496-505	1.4	171
35	Reproducibility of a long-range swept-source optical coherence tomography ocular biometry system and comparison with clinical biometers. <i>Ophthalmology</i> , 2013 , 120, 2184-90	7.3	55
34	Handheld ultrahigh speed swept source optical coherence tomography instrument using a MEMS scanning mirror. <i>Biomedical Optics Express</i> , 2013 , 5, 293-311	3.5	126
33	4D dynamic imaging of the eye using ultrahigh speed SS-OCT 2013 ,		2
32	Phase-sensitive swept-source optical coherence tomography imaging of the human retina with a vertical cavity surface-emitting laser light source. <i>Optics Letters</i> , 2013 , 38, 338-40	3	111
31	Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology. <i>Biomedical Optics Express</i> , 2013 , 4, 1119-32	3.5	92
30	In vivo imaging of the rodent eye with swept source/Fourier domain OCT. <i>Biomedical Optics Express</i> , 2013 , 4, 351-63	3.5	20
29	High-precision, high-accuracy ultralong-range swept-source optical coherence tomography using vertical cavity surface emitting laser light source. <i>Optics Letters</i> , 2013 , 38, 673-5	3	116
28	Choriocapillaris and choroidal microvasculature imaging with ultrahigh speed OCT angiography. <i>PLoS ONE</i> , 2013 , 8, e81499	3.7	209
27	Parafoveal retinal vascular response to pattern visual stimulation assessed with OCT angiography. <i>PLoS ONE</i> , 2013 , 8, e81343	3.7	66
26	MEMS tunable VCSEL light source for ultrahigh speed 60kHz - 1MHz axial scan rate and long range centimeter class OCT imaging 2012 ,		52
25	Speckle reduction in swept source optical coherence tomography images with slow-axis averaging 2012 ,		1
24	Motion correction in optical coherence tomography volumes on a per A-scan basis using orthogonal scan patterns. <i>Biomedical Optics Express</i> , 2012 , 3, 1182-99	3.5	288
23	Retinal, anterior segment and full eye imaging using ultrahigh speed swept source OCT with vertical-cavity surface emitting lasers. <i>Biomedical Optics Express</i> , 2012 , 3, 2733-51	3.5	227
22	Split-spectrum amplitude-decorrelation angiography with optical coherence tomography. <i>Optics Express</i> , 2012 , 20, 4710-25	3.3	1250
21	Swept source/Fourier domain polarization sensitive optical coherence tomography with a passive polarization delay unit. <i>Optics Express</i> , 2012 , 20, 10229-41	3.3	88

20	Total retinal blood flow measurement with ultrahigh speed swept source/Fourier domain OCT. <i>Biomedical Optics Express</i> , 2011 , 2, 1539-52	3.5	141
19	Piezoelectric-transducer-based miniature catheter for ultrahigh-speed endoscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2011 , 2, 2438-48	3.5	25
18	Retinal blood flow measurement with ultrahigh-speed swept-source / Fourier domain optical coherence tomography 2011 ,		1
17	Wide Field Scanning Telescope Using MEMS Deformable Mirrors. <i>International Journal of Optomechatronics</i> , 2010 , 4, 285-305	3.5	6
16	Image Tracking of Multiple C. Elegans Worms Using Adaptive Scanning Optical Microscope (ASOM). <i>International Journal of Optomechatronics</i> , 2010 , 4, 1-21	3.5	1
15	Modeling and control of a fast steering mirror in imaging applications 2010 ,		2
14	Ultrahigh speed 1050nm swept source/Fourier domain OCT retinal and anterior segment imaging at 100,000 to 400,000 axial scans per second. <i>Optics Express</i> , 2010 , 18, 20029-48	3.3	353
13	Automation of Challenging Spatial-Temporal Biomedical Observations With the Adaptive Scanning Optical Microscope (ASOM). <i>IEEE Transactions on Automation Science and Engineering</i> , 2009 , 6, 525-535	4.9	7
12	Ultrahigh speed spectral/Fourier domain ophthalmic OCT imaging 2009 ,		1
11	Ultrahigh speed spectral / Fourier domain OCT ophthalmic imaging at 70,000 to 312,500 axial scans per second. <i>Optics Express</i> , 2008 , 16, 15149-69	3.3	302
10	Design of Adaptive Optics Based Systems by Using MEMS Deformable Mirror Models. <i>International Journal of Optomechatronics</i> , 2008 , 2, 104-125	3.5	4
9	Off-axis aberration correction for a wide field scanning telescope 2008 ,		1
8	Adaptive scanning optical microscope: large field of view and high-resolution imaging using a MEMS deformable mirror. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2008 , 7, 021009	0.7	6
7	High Performance Motion Tracking Control for Electronic Manufacturing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 767-776	1.6	26
6	Living organism imaging with the adaptive scanning optical microscope (ASOM) 2007 ,		2
5	Adaptive scanning optical microscope (ASOM): large field of view and high resolution imaging using a MEMS deformable mirror 2007 ,		2
4	Optimal design of adaptive optics based systems using high fidelity MEMS deformable mirror models 2007 ,		1
3	Automation of Challenging Spatial-Temporal Biomedical Observations with the Adaptive Scanning Optical Microscope (ASOM) 2006 ,		3

2	A multidisciplinary design and optimization methodology for the Adaptive Scanning Optical Microscope (ASOM) 2006 , 6289, 176	2
1	Adaptive Scanning Optical Microscope (ASOM): A multidisciplinary optical microscope design for large field of view and high resolution imaging. <i>Optics Express</i> , 2005 , 13, 6504-18	33 64