

Benjamin Potsaid

List of Publications by Year in descending order

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58
papers

6,458
citations

186254

28
h-index

223791

46
g-index

58
all docs

58
docs citations

58
times ranked

4365
citing authors

#	ARTICLE	IF	CITATIONS
1	Split-spectrum amplitude-decorrelation angiography with optical coherence tomography. Optics Express, 2012, 20, 4710.	3.4	1,574
2	Quantitative Optical Coherence Tomography Angiography of Choroidal Neovascularization in Age-Related Macular Degeneration. Ophthalmology, 2014, 121, 1435-1444.	5.2	654
3	Ultrahigh speed 1050nm swept source / Fourier domain OCT retinal and anterior segment imaging at 100,000 to 400,000 axial scans per second. Optics Express, 2010, 18, 20029.	3.4	469
4	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
5	Motion correction in optical coherence tomography volumes on a per A-scan basis using orthogonal scan patterns. Biomedical Optics Express, 2012, 3, 1182.	2.9	365
6	Retinal, anterior segment and full eye imaging using ultrahigh speed swept source OCT with vertical-cavity surface emitting lasers. Biomedical Optics Express, 2012, 3, 2733.	2.9	298
7	Choriocapillaris and Choroidal Microvasculature Imaging with Ultrahigh Speed OCT Angiography. PLoS ONE, 2013, 8, e81499.	2.5	289
8	Optical coherence tomography angiography of optic nerve head and parafovea in multiple sclerosis. British Journal of Ophthalmology, 2014, 98, 1368-1373.	3.9	213
9	Ultrahigh-Speed Swept-Source OCT Angiography in Exudative AMD. Ophthalmic Surgery Lasers and Imaging Retina, 2014, 45, 496-505.	0.7	206
10	Total retinal blood flow measurement with ultrahigh speed swept source/Fourier domain OCT. Biomedical Optics Express, 2011, 2, 1539.	2.9	181
11	Handheld ultrahigh speed swept source optical coherence tomography instrument using a MEMS scanning mirror. Biomedical Optics Express, 2014, 5, 293.	2.9	163
12	High-precision, high-accuracy ultralong-range swept-source optical coherence tomography using vertical cavity surface emitting laser light source. Optics Letters, 2013, 38, 673.	3.3	159
13	Phase-sensitive swept-source optical coherence tomography imaging of the human retina with a vertical cavity surface-emitting laser light source. Optics Letters, 2013, 38, 338.	3.3	141
14	Swept source / Fourier domain polarization sensitive optical coherence tomography with a passive polarization delay unit. Optics Express, 2012, 20, 10229.	3.4	131
15	Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology. Biomedical Optics Express, 2013, 4, 1119.	2.9	116
16	TOWARD QUANTITATIVE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. Retina, 2016, 36, S118-S126.	1.7	114
17	Cubic meter volume optical coherence tomography. Optica, 2016, 3, 1496.	9.3	109
18	Adaptive Scanning Optical Microscope (ASOM): A multidisciplinary optical microscope design for large field of view and high resolution imaging. Optics Express, 2005, 13, 6504.	3.4	90

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19	Parafoveal Retinal Vascular Response to Pattern Visual Stimulation Assessed with OCT Angiography. PLoS ONE, 2013, 8, e81343.	2.5	80
20	Wideband Electrically Pumped 1050-nm MEMS-Tunable VCSEL for Ophthalmic Imaging. Journal of Lightwave Technology, 2015, 33, 3461-3468.	4.6	73
21	Reproducibility of a Long-Range Swept-Source Optical Coherence Tomography Ocular Biometry System and Comparison with Clinical Biometers. Ophthalmology, 2013, 120, 2184-2190.	5.2	72
22	MEMS tunable VCSEL light source for ultrahigh speed 60kHz - 1MHz axial scan rate and long range centimeter class OCT imaging. Proceedings of SPIE, 2012, , .	0.8	69
23	Ultrahigh speed en face OCT capsule for endoscopic imaging. Biomedical Optics Express, 2015, 6, 1146.	2.9	60
24	Depth-encoded all-fiber swept source polarization sensitive OCT. Biomedical Optics Express, 2014, 5, 2931.	2.9	56
25	Correction of rotational distortion for catheter-based en face OCT and OCT angiography. Optics Letters, 2014, 39, 5973.	3.3	48
26	High Performance Motion Tracking Control for Electronic Manufacturing. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 767-776.	1.6	38
27	Endoscopic optical coherence tomography angiography microvascular features associated with dysplasia in Barrett's Esophagus (with video). Gastrointestinal Endoscopy, 2017, 86, 476-484.e3.	1.0	33
28	Piezoelectric-transducer-based miniature catheter for ultrahigh-speed endoscopic optical coherence tomography. Biomedical Optics Express, 2011, 2, 2438.	2.9	31
29	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. Biomedical Optics Express, 2016, 7, 2927.	2.9	27
30	In vivo imaging of the rodent eye with swept source/Fourier domain OCT. Biomedical Optics Express, 2013, 4, 351.	2.9	22
31	Microscope-Integrated Intraoperative Ultrahigh-Speed Swept-Source Optical Coherence Tomography for Widefield Retinal and Anterior Segment Imaging. Ophthalmic Surgery Lasers and Imaging Retina, 2018, 49, 94-102.	0.7	19
32	Multi-MHz MEMS-VCSEL swept-source optical coherence tomography for endoscopic structural and angiographic imaging with miniaturized brushless motor probes. Biomedical Optics Express, 2021, 12, 2384.	2.9	18
33	High speed, long range, deep penetration swept source OCT for structural and angiographic imaging of the anterior eye. Scientific Reports, 2022, 12, 992.	3.3	12
34	Automation of Challenging Spatial-Temporal Biomedical Observations With the Adaptive Scanning Optical Microscope (ASOM). IEEE Transactions on Automation Science and Engineering, 2009, 6, 525-535.	5.2	11
35	Assessment of Barrett's esophagus and dysplasia with ultrahigh-speed volumetric en face and cross-sectional optical coherence tomography. Endoscopy, 2019, 51, 355-359.	1.8	11
36	Tethered capsule en face optical coherence tomography for imaging Barrett's oesophagus in unsedated patients. BMJ Open Gastroenterology, 2020, 7, e000444.	2.7	10

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37	Adaptive scanning optical microscope: large field of view and high-resolution imaging using a MEMS deformable mirror. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2008, 7, 021009.	0.9	9
38	Ultrahigh-speed endoscopic optical coherence tomography and angiography enables delineation of lateral margins of endoscopic mucosal resection: a case report. Therapeutic Advances in Gastroenterology, 2017, 10, 931-936.	3.2	9
39	Wide Field Scanning Telescope Using MEMS Deformable Mirrors. International Journal of Optomechatronics, 2010, 4, 285-305.	6.6	8
40	Adaptive scanning optical microscope (ASOM): large field of view and high resolution imaging using a MEMS deformable mirror. , 2007, , .		5
41	Modeling and control of a fast steering mirror in imaging applications. , 2010, , .		5
42	Automation of Challenging Spatial-Temporal Biomedical Observations with the Adaptive Scanning Optical Microscope (ASOM). , 2006, , .		4
43	Living organism imaging with the adaptive scanning optical microscope (ASOM). , 2007, , .		4
44	Design of Adaptive Optics Based Systems by Using MEMS Deformable Mirror Models. International Journal of Optomechatronics, 2008, 2, 104-125.	6.6	4
45	Ultrahigh Speed OCT. , 2015, , 319-356.		3
46	Reliable widely tunable electrically pumped 1050nm MEMS-VCSELs with amplifier in single butterfly co-package. , 2020, , .		3
47	A multidisciplinary design and optimization methodology for the Adaptive Scanning Optical Microscope (ASOM). , 2006, 6289, 176.		2
48	Speckle reduction in swept source optical coherence tomography images with slow-axis averaging. Proceedings of SPIE, 2012, , .	0.8	2
49	4D dynamic imaging of the eye using ultrahigh speed SS-OCT. Proceedings of SPIE, 2013, , .	0.8	2
50	Optimal design of adaptive optics based systems using high fidelity MEMS deformable mirror models. Proceedings of SPIE, 2007, , .	0.8	1
51	Off-axis aberration correction for a wide field scanning telescope. , 2008, , .		1
52	Ultrahigh speed spectral/Fourier domain ophthalmic OCT imaging. , 2009, , .		1
53	Ultrahigh-speed volumetric ophthalmic OCT imaging at 850nm and 1050nm. Proceedings of SPIE, 2010, , .	0.8	1
54	Image Tracking of Multiple <i>C. Elegans</i> Worms Using Adaptive Scanning Optical Microscope (ASOM). International Journal of Optomechatronics, 2010, 4, 1-21.	6.6	1

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55	Retinal blood flow measurement with ultrahigh-speed swept-source / Fourier domain optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	1
56	Single-Mode and High-Speed 850nm MEMS-VCSEL. , 2016, , .		1
57	Ultrahigh-speed imaging of the rat retina using ultrahigh-resolution spectral/Fourier domain OCT. Proceedings of SPIE, 2010, , .	0.8	0
58	VCSEL Swept Light Sources. , 2015, , 659-686.		0