Benjamin Potsaid

List of Publications by Citations

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	Split-spectrum amplitude-decorrelation angiography with optical coherence tomography. *Optics Express*, **2012**, 20, 4710-25	3.3	1250
54	Quantitative optical coherence tomography angiography of choroidal neovascularization in age-related macular degeneration. *Ophthalmology*, **2014**, 121, 1435-44	7.3	550
53	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, 20029-48	3.3	353
52	Ultrahigh speed spectral / Fourier domain OCT ophthalmic imaging at 70,000 to 312,500 axial scans per second. *Optics Express*, **2008**, 16, 15149-69	3.3	302
51	Motion correction in optical coherence tomography volumes on a per A-scan basis using orthogonal scan patterns. *Biomedical Optics Express*, **2012**, 3, 1182-99	3.5	288
50	Retinal, anterior segment and full eye imaging using ultrahigh speed swept source OCT with vertical-cavity surface emitting lasers. *Biomedical Optics Express*, **2012**, 3, 2733-51	3.5	227
49	Choriocapillaris and choroidal microvasculature imaging with ultrahigh speed OCT angiography. *PLoS ONE*, **2013**, 8, e81499	3.7	209
48	Optical coherence tomography angiography of optic nerve head and parafovea in multiple sclerosis. *British Journal of Ophthalmology*, **2014**, 98, 1368-73	5.5	173
47	Ultrahigh-speed swept-source OCT angiography in exudative AMD. *Ophthalmic Surgery Lasers and Imaging Retina*, **2014**, 45, 496-505	1.4	171
46	Total retinal blood flow measurement with ultrahigh speed swept source/Fourier domain OCT. *Biomedical Optics Express*, **2011**, 2, 1539-52	3.5	141
45	Handheld ultrahigh speed swept source optical coherence tomography instrument using a MEMS scanning mirror. *Biomedical Optics Express*, **2013**, 5, 293-311	3.5	126
44	High-precision, high-accuracy ultralong-range swept-source optical coherence tomography using vertical cavity surface emitting laser light source. *Optics Letters*, **2013**, 38, 673-5	3	116
43	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, 338-40	3	111
42	Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology. *Biomedical Optics Express*, **2013**, 4, 1119-32	3.5	92
41	Swept source/Fourier domain polarization sensitive optical coherence tomography with a passive polarization delay unit. *Optics Express*, **2012**, 20, 10229-41	3.3	88
40	TOWARD QUANTITATIVE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY: Visualizing Blood Flow Speeds in Ocular Pathology Using Variable Interscan Time Analysis. *Retina*, **2016**, 36 Suppl 1, S118-S126	3.6	83
39	Cubic meter volume optical coherence tomography. *Optica*, **2016**, 3, 1496-1503	8.6	81

38	Parafoveal retinal vascular response to pattern visual stimulation assessed with OCT angiography. *PLoS ONE*, **2013**, 8, e81343	3.7	66
37	Adaptive Scanning Optical Microscope (ASOM): A multidisciplinary optical microscope design for large field of view and high resolution imaging. *Optics Express*, **2005**, 13, 6504-18	3.3	64
36	Reproducibility of a long-range swept-source optical coherence tomography ocular biometry system and comparison with clinical biometers. *Ophthalmology*, **2013**, 120, 2184-90	7.3	55
35	MEMS tunable VCSEL light source for ultrahigh speed 60kHz - 1MHz axial scan rate and long range centimeter class OCT imaging **2012**,		52
34	Wideband Electrically-Pumped 1050 nm MEMS-Tunable VCSEL for Ophthalmic Imaging. *Journal of Lightwave Technology*, **2015**, 33, 3461-3468	4	49
33	Ultrahigh speed en face OCT capsule for endoscopic imaging. *Biomedical Optics Express*, **2015**, 6, 1146-63	3.5	48
32	Depth-encoded all-fiber swept source polarization sensitive OCT. *Biomedical Optics Express*, **2014**, 5, 2931-49	3.5	43
31	Correction of rotational distortion for catheter-based en face OCT and OCT angiography. *Optics Letters*, **2014**, 39, 5973-6	3	37
30	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	26
29	Endoscopic optical coherence tomography angiography microvascular features associated with dysplasia in Barrett's esophagus (with video). *Gastrointestinal Endoscopy*, **2017**, 86, 476-484.e3	5.2	25
28	Piezoelectric-transducer-based miniature catheter for ultrahigh-speed endoscopic optical coherence tomography. *Biomedical Optics Express*, **2011**, 2, 2438-48	3.5	25
27	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. *Biomedical Optics Express*, **2016**, 7, 2927-42	3.5	23
26	In vivo imaging of the rodent eye with swept source/Fourier domain OCT. *Biomedical Optics Express*, **2013**, 4, 351-63	3.5	20
25	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	1.4	11
24	Assessment of Barrett's esophagus and dysplasia with ultrahigh-speed volumetric en face and cross-sectional optical coherence tomography. *Endoscopy*, **2019**, 51, 355-359	3.4	9
23	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	4.7	8
22	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	4.9	7
21	Wide Field Scanning Telescope Using MEMS Deformable Mirrors. *International Journal of Optomechatronics*, **2010**, 4, 285-305	3.5	6

20	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	0.7	6
19	Tethered capsule en face optical coherence tomography for imaging Barrett\'s oesophagus in unsedated patients. *BMJ Open Gastroenterology*, **2020**, 7,	3.9	6
18	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, 2384-2403	3.5	5
17	Design of Adaptive Optics Based Systems by Using MEMS Deformable Mirror Models. *International Journal of Optomechatronics*, **2008**, 2, 104-125	3.5	4
16	Automation of Challenging Spatial-Temporal Biomedical Observations with the Adaptive Scanning Optical Microscope (ASOM) **2006**,		3
15	4D dynamic imaging of the eye using ultrahigh speed SS-OCT **2013**,		2
14	Modeling and control of a fast steering mirror in imaging applications **2010**,		2
13	Living organism imaging with the adaptive scanning optical microscope (ASOM) **2007**,		2
12	Adaptive scanning optical microscope (ASOM): large field of view and high resolution imaging using a MEMS deformable mirror **2007**,		2
11	A multidisciplinary design and optimization methodology for the Adaptive Scanning Optical Microscope (ASOM) **2006**, 6289, 176		2
10	Reliable widely tunable electrically pumped 1050nm MEMS-VCSELs with amplifier in single butterfly co-package **2020**,		2
9	Ultrahigh Speed OCT **2015**, 319-356		1
8	Retinal blood flow measurement with ultrahigh-speed swept-source / Fourier domain optical coherence tomography **2011**,		1
7	Image Tracking of Multiple C. Elegans Worms Using Adaptive Scanning Optical Microscope (ASOM). *International Journal of Optomechatronics*, **2010**, 4, 1-21	3.5	1
6	Speckle reduction in swept source optical coherence tomography images with slow-axis averaging **2012**,		1
5	Ultrahigh speed spectral/Fourier domain ophthalmic OCT imaging **2009**,		1
4	Off-axis aberration correction for a wide field scanning telescope **2008**,		1
3	Optimal design of adaptive optics based systems using high fidelity MEMS deformable mirror models **2007**,		1

2	High speed, long range, deep penetration swept source OCT for structural and angiographic imaging of the anterior eye.. *Scientific Reports*, **2022**, 12, 992	4.9	0
1	VCSEL Swept Light Sources **2015**, 659-686		