

# Joseph A Izatt

## List of Publications by Year in Descending Order

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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.

286 papers	16,508 citations	64 h-index	123 g-index
363 ext. papers	20,333 ext. citations	4.4 avg, IF	6.43 L-index

#	Paper	IF	Citations
286	Data-Driven Modelling and Control for Robot Needle Insertion in Deep Anterior Lamellar Keratoplasty. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 1526-1533	4.2	0
285	Video-rate high-precision time-frequency multiplexed 3D coherent ranging.. <i>Nature Communications</i> , <b>2022</b> , 13, 1476	17.4	1
284	Incoherent 3D k-space synthesis with volumetric optical coherence refraction tomography <b>2021</b> ,		1
283	Robotically aligned optical coherence tomography with 5 degree of freedom eye tracking for subject motion and gaze compensation.. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 7361-7376	3.5	1
282	quantitative analysis of anterior chamber white blood cell mixture composition using spectroscopic optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 2134-2148	3.5	1
281	57084 Combining artificial intelligence and robotics: a novel fully automated optical coherence tomography-based approach for eye disease screening. <i>Journal of Clinical and Translational Science</i> , <b>2021</b> , 5, 122-122	0.4	
280	QUANTITATIVE TOPOGRAPHIC CURVATURE MAPS OF THE POSTERIOR EYE UTILIZING OPTICAL COHERENCE TOMOGRAPHY. <i>Retina</i> , <b>2021</b> , 41, 804-811	3.6	1
279	Macular OCT Characteristics at 36 WeeksTPostmenstrual Age in Infants Examined for Retinopathy of Prematurity. <i>Ophthalmology Retina</i> , <b>2021</b> , 5, 580-592	3.8	13
278	Microscope-Integrated OCT-Guided Volumetric Measurements of Subretinal Blebs Created by a Suprachoroidal Approach. <i>Translational Vision Science and Technology</i> , <b>2021</b> , 10, 24	3.3	1
277	Contactless optical coherence tomography of the eyes of freestanding individuals with a robotic scanner. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 726-736	19	5
276	COMBINED INTERNAL LIMITING MEMBRANE FLAP AND AUTOLOGOUS PLASMA CONCENTRATE TO CLOSE A LARGE TRAUMATIC MACULAR HOLE IN A PEDIATRIC PATIENT. <i>Retinal Cases and Brief Reports</i> , <b>2021</b> , 15, 107-109	1.1	5
275	Lightweight Learning-Based Automatic Segmentation of Subretinal Blebs on Microscope-Integrated Optical Coherence Tomography Images. <i>American Journal of Ophthalmology</i> , <b>2021</b> , 221, 154-168	4.9	2
274	Depth-Resolved Visualization of Perifoveal Retinal Vasculature in Preterm Infants Using Handheld Optical Coherence Tomography Angiography. <i>Translational Vision Science and Technology</i> , <b>2021</b> , 10, 10	3.3	1
273	Spectroscopic optical coherence refraction tomography. <i>Optics Letters</i> , <b>2020</b> , 45, 2091-2094	3	7
272	Multimodal handheld adaptive optics scanning laser ophthalmoscope. <i>Optics Letters</i> , <b>2020</b> , 45, 4940-4943	3	3
271	Optical Coherence Tomography Guided Robotic Needle Insertion for Deep Anterior Lamellar Keratoplasty. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 2073-2083	5	7
270	Toward Autonomous Robotic Micro-Suturing using Optical Coherence Tomography Calibration and Path Planning <b>2020</b> ,		1

269	Optical Coherence Tomography-Guided Robotic Ophthalmic Microsurgery via Reinforcement Learning from Demonstration. <i>IEEE Transactions on Robotics</i> , <b>2020</b> , 36, 1207-1218	6.5	7
268	Slow progressive perifoveal vascular formation in an infant with aggressive posterior retinopathy of prematurity. <i>Journal of AAPOS</i> , <b>2020</b> , 24, 323-326	1.3	3
267	Auto-Processed Retinal Vessel Shadow View Images From Bedside Optical Coherence Tomography to Evaluate Plus Disease in Retinopathy of Prematurity. <i>Translational Vision Science and Technology</i> , <b>2020</b> , 9, 16	3.3	3
266	Automatic Optical Coherence Tomography Imaging of Stationary and Moving Eyes with a Robotically-Aligned Scanner <b>2019</b> ,		4
265	Super-resolution retinal imaging using optically reassigned scanning laser ophthalmoscopy. <i>Nature Photonics</i> , <b>2019</b> , 13, 257-262	33.9	12
264	Three-dimensional pattern of extraretinal neovascular development in retinopathy of prematurity. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , <b>2019</b> , 257, 677-688	3.8	5
263	Optical coherence refraction tomography.. <i>Nature Photonics</i> , <b>2019</b> , 13, 794-802	33.9	29
262	Capturing Macular Vascular Development in an Infant With Retinopathy of Prematurity. <i>JAMA Ophthalmology</i> , <b>2019</b> , 137, 1083-1086	3.9	3
261	Wide-field whole eye OCT system with demonstration of quantitative retinal curvature estimation. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 338-355	3.5	10
260	Progress in Multimodal Imaging: feature introduction. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 2135-2140	3.5	2
259	Ergonomic handheld OCT angiography probe optimized for pediatric and supine imaging. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 2623-2638	3.5	34
258	Ocular anterior chamber blood cell population differentiation using spectroscopic optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 3281-3300	3.5	6
257	Four-Dimensional Microscope-Integrated Optical Coherence Tomography Guidance in a Model Eye Subretinal Surgery. <i>Retina</i> , <b>2019</b> , 39 Suppl 1, S194-S198	3.6	3
256	Advances in Whole-Eye Optical Coherence Tomography Imaging. <i>Asia-Pacific Journal of Ophthalmology</i> , <b>2019</b> , 8,	3.5	3
255	Real-Time Volumetric Imaging of Vitreoretinal Surgery with a Prototype Microscope-Integrated Swept-Source OCT Device. <i>Ophthalmology Retina</i> , <b>2018</b> , 2, 401-410	3.8	8
254	Four-Dimensional Microscope-Integrated OCT Use in Argus II Placement. <i>Ophthalmology Retina</i> , <b>2018</b> , 2, 510-511	3.8	3
253	VISUALIZATION FROM INTRAOPERATIVE SWEPT-SOURCE MICROSCOPE-INTEGRATED OPTICAL COHERENCE TOMOGRAPHY IN VITRECTOMY FOR COMPLICATIONS OF PROLIFERATIVE DIABETIC RETINOPATHY. <i>Retina</i> , <b>2018</b> , 38 Suppl 1, S110-S120	3.6	13
252	Real-time corneal segmentation and 3D needle tracking in intrasurgical OCT. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 2716-2732	3.5	27

251	Real-time visualization and interaction with static and live optical coherence tomography volumes in immersive virtual reality. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 2825-2843	3.5	13
250	Statistical Models of Signal and Noise and Fundamental Limits of Segmentation Accuracy in Retinal Optical Coherence Tomography. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1978-1988	11.7	28
249	Handheld Adaptive Optics Scanning Laser Ophthalmoscope. <i>Optica</i> , <b>2018</b> , 5, 1027-1036	8.6	17
248	Volumetric Measurement of Subretinal Blebs Using Microscope-Integrated Optical Coherence Tomography. <i>Translational Vision Science and Technology</i> , <b>2018</b> , 7, 19	3.3	17
247	Constant linear velocity spiral scanning for near video rate 4D OCT ophthalmic and surgical imaging with isotropic transverse sampling. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 5052-5070	3.5	22
246	Asymmetric wide-field optical model of the human eye with tilted and decentered crystalline lens that reproduces experimentally measured aberrations: errata. <i>Optica</i> , <b>2018</b> , 5, 1461	8.6	4
245	Depth-Based, Motion-Stabilized Colorization of Microscope-Integrated Optical Coherence Tomography Volumes for Microscope-Independent Microsurgery. <i>Translational Vision Science and Technology</i> , <b>2018</b> , 7, 1	3.3	3
244	Real-Time Image-Guided Cooperative Robotic Assist Device for Deep Anterior Lamellar Keratoplasty <b>2018</b> ,		6
243	Intra-operative microscope-integrated swept-source optical coherence tomography guided placement of Argus II retinal prosthesis. <i>Acta Ophthalmologica</i> , <b>2017</b> , 95, e431-e432	3.7	9
242	Microscope-Integrated Optical Coherence Tomography Angiography in the Operating Room in Young Children With Retinal Vascular Disease. <i>JAMA Ophthalmology</i> , <b>2017</b> , 135, 483-486	3.9	25
241	Wireless, Web-Based Interactive Control of Optical Coherence Tomography with Mobile Devices. <i>Translational Vision Science and Technology</i> , <b>2017</b> , 6, 5	3.3	6
240	Enhanced visualization of peripheral retinal vasculature with wavefront sensorless adaptive optics optical coherence tomography angiography in diabetic patients. <i>Optics Letters</i> , <b>2017</b> , 42, 17-20	3	23
239	Characterization of Long Working Distance Optical Coherence Tomography for Imaging of Pediatric Retinal Pathology. <i>Translational Vision Science and Technology</i> , <b>2017</b> , 6, 12	3.3	3
238	Intraoperative 4-Dimensional Microscope-Integrated Optical Coherence Tomography-Guided 27-Gauge Transvitreal Choroidal Biopsy for Choroidal Melanoma. <i>Retina</i> , <b>2017</b> , 37, 796-799	3.6	11
237	Teleoperating robots from arbitrary viewpoints in surgical contexts <b>2017</b> ,		3
236	Intraocular Pressure and Big Bubble Diameter in Deep Anterior Lamellar Keratoplasty: An Ex-Vivo Microscope-Integrated OCT With Heads-Up Display Study. <i>Asia-Pacific Journal of Ophthalmology</i> , <b>2017</b> , 6, 412-417	3.5	7
235	Wide-field retinal optical coherence tomography with wavefront sensorless adaptive optics for enhanced imaging of targeted regions. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 16-37	3.5	34
234	Review of intraoperative optical coherence tomography: technology and applications [Invited]. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 1607-1637	3.5	82

233	Structured illumination multimodal 3D-resolved quantitative phase and fluorescence sub-diffraction microscopy. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 2496-2518	3.5	51
232	Retinal imaging in human autopsy eyes using a custom optical coherence tomography periscope. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 4152-4159	3.5	2
231	Structured illumination microscopy for dual-modality 3D sub-diffraction resolution fluorescence and refractive-index reconstruction. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 5776-5793	3.5	15
230	Introduction to the feature issue on the 25 year anniversary of optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 3289-3291	3.5	3
229	Refractive index tomography with structured illumination. <i>Optica</i> , <b>2017</b> , 4, 537	8.6	39
228	Four-dimensional Microscope-Integrated Optical Coherence Tomography to Visualize Suture Depth in Strabismus Surgery. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , <b>2017</b> , 54, e1-e5	0.9	8
227	Method for single illumination source combined optical coherence tomography and fluorescence imaging of fluorescently labeled ocular structures in transgenic mice. <i>Experimental Eye Research</i> , <b>2016</b> , 151, 68-74	3.7	6
226	Needle Depth and Big-Bubble Success in Deep Anterior Lamellar Keratoplasty: An Ex Vivo Microscope-Integrated OCT Study. <i>Cornea</i> , <b>2016</b> , 35, 1471-1477	3.1	22
225	Novel microscope-integrated stereoscopic heads-up display for intrasurgical optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 1711-26	3.5	34
224	Wide field of view swept-source optical coherence tomography for peripheral retinal disease. <i>British Journal of Ophthalmology</i> , <b>2016</b> , 100, 1377-82	5.5	37
223	4D microscope-integrated OCT improves accuracy of ophthalmic surgical maneuvers <b>2016</b> ,		5
222	Reply. <i>Ophthalmology</i> , <b>2016</b> , 123, e6-7	7.3	
221	Impact of Microscope-Integrated OCT on Ophthalmology Resident Performance of Anterior Segment Surgical Maneuvers in Model Eyes <b>2016</b> , 57, OCT146-53		29
220	Posterior Eye Shape Measurement With Retinal OCT Compared to MRI <b>2016</b> , 57, OCT196-203		28
219	Optical Coherence Tomography for Retinal Surgery: Perioperative Analysis to Real-Time Four-Dimensional Image-Guided Surgery <b>2016</b> , 57, OCT37-50		27
218	Pupil Tracking for Real-Time Motion Corrected Anterior Segment Optical Coherence Tomography. <i>PLoS ONE</i> , <b>2016</b> , 11, e0162015	3.7	13
217	Enhanced volumetric visualization for real time 4D intraoperative ophthalmic swept-source OCT. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 1815-29	3.5	41
216	Long working distance OCT with a compact 2f retinal scanning configuration for pediatric imaging. <i>Optics Letters</i> , <b>2016</b> , 41, 4891-4894	3	2

215	Re: Spaide et al.: Volume-rendering optical coherence tomography angiography of macular telangiectasia type 2 (Ophthalmology 2015;122:2261-9). <i>Ophthalmology</i> , <b>2016</b> , 123, e24	7.3	5
214	cellular-resolution retinal imaging in infants and children using an ultracompact handheld probe. <i>Nature Photonics</i> , <b>2016</b> , 10, 580-584	33.9	30
213	Length-adaptive graph search for automatic segmentation of pathological features in optical coherence tomography images. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 76015	3.5	26
212	Optical coherence tomography accurately measures corneal power change from laser refractive surgery. <i>Ophthalmology</i> , <b>2015</b> , 122, 677-86	7.3	28
211	Kernel regression based segmentation of optical coherence tomography images with diabetic macular edema. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 1172-94	3.5	168
210	Complete 360° circumferential gonioscopic optical coherence tomography imaging of the iridocorneal angle. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 1376-91	3.5	11
209	Pupil tracking optical coherence tomography for precise control of pupil entry position. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 3405-19	3.5	25
208	Wide-field optical model of the human eye with asymmetrically tilted and decentered lens that reproduces measured ocular aberrations. <i>Optica</i> , <b>2015</b> , 2, 124	8.6	45
207	Handheld, rapidly switchable, anterior/posterior segment swept source optical coherence tomography probe. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 4516-28	3.5	30
206	Real-Time Microscope-Integrated OCT to Improve Visualization in DSAEK for Advanced Bullous Keratopathy. <i>Cornea</i> , <b>2015</b> , 34, 1606-10	3.1	30
205	INTRAOPERATIVE SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY IMAGING AFTER INTERNAL LIMITING MEMBRANE PEELING IN IDIOPATHIC EPIRETINAL MEMBRANE WITH CONNECTING STRANDS. <i>Retina</i> , <b>2015</b> , 35, 1622-30	3.6	19
204	Intrasurgical Human Retinal Imaging With Manual Instrument Tracking Using a Microscope-Integrated Spectral-Domain Optical Coherence Tomography Device. <i>Translational Vision Science and Technology</i> , <b>2015</b> , 4, 1	3.3	30
203	3-D Adaptive Sparsity Based Image Compression With Applications to Optical Coherence Tomography. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1306-20	11.7	20
202	Spatial frequency-domain multiplexed microscopy for simultaneous, single-camera, one-shot, fluorescent, and quantitative-phase imaging. <i>Optics Letters</i> , <b>2015</b> , 40, 4839-42	3	20
201	Novel microscope-integrated stereoscopic display for intrasurgical optical coherence tomography <b>2015</b> ,		1
200	Theory of Optical Coherence Tomography <b>2015</b> , 65-94		26
199	Intraoperative Retinal Optical Coherence Tomography <b>2015</b> , 1771-1796		1
198	Complex Conjugate Removal in SS Optical Coherence Tomography <b>2015</b> , 255-276		

197	Ultrasensitive Phase-Resolved Imaging of Cellular Morphology and Dynamics <b>2015</b> , 1257-1287		
196	Structured illumination diffraction phase microscopy for broadband, subdiffraction resolution, quantitative phase imaging. <i>Optics Letters</i> , <b>2014</b> , 39, 1015-8	3	19
195	Coherence revival multiplexed, buffered swept source optical coherence tomography: 400 kHz imaging with a 100 kHz source. <i>Optics Letters</i> , <b>2014</b> , 39, 3740-3	3	17
194	Quantitative classification of eyes with and without intermediate age-related macular degeneration using optical coherence tomography. <i>Ophthalmology</i> , <b>2014</b> , 121, 162-172	7.3	192
193	Caveats to obtaining retinal topography with optical coherence tomography <b>2014</b> , 55, 5730-1		1
192	Compressed wavefront sensing. <i>Optics Letters</i> , <b>2014</b> , 39, 1189-92	3	10
191	Automatic segmentation of up to ten layer boundaries in SD-OCT images of the mouse retina with and without missing layers due to pathology. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 348-65	3.5	82
190	True color scanning laser ophthalmoscopy and optical coherence tomography handheld probe. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 3204-16	3.5	21
189	Fully automated detection of diabetic macular edema and dry age-related macular degeneration from optical coherence tomography images. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 3568-77	3.5	227
188	Unprocessed real-time imaging of vitreoretinal surgical maneuvers using a microscope-integrated spectral-domain optical coherence tomography system. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , <b>2013</b> , 251, 213-20	3.8	44
187	Correction of ocular shape in retinal optical coherence tomography and effect on current clinical measures. <i>American Journal of Ophthalmology</i> , <b>2013</b> , 156, 304-11	4.9	46
186	Fast acquisition and reconstruction of optical coherence tomography images via sparse representation. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 2034-49	11.7	141
185	Automated non-rigid registration and mosaicing for robust imaging of distinct retinal capillary beds using speckle variance optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 803-21	3.5	100
184	Automatic cone photoreceptor segmentation using graph theory and dynamic programming. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 924-37	3.5	50
183	Structured illumination quantitative phase microscopy for enhanced resolution amplitude and phase imaging. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 1795-805	3.5	34
182	Handheld simultaneous scanning laser ophthalmoscopy and optical coherence tomography system. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 2307-21	3.5	47
181	Quantitative single and multi-surface clinical corneal topography utilizing optical coherence tomography. <i>Optics Letters</i> , <b>2013</b> , 38, 1212-4	3	7
180	Optimization of confocal scanning laser ophthalmoscope design. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 076015	3.5	24



179	Preclinical evaluation and intraoperative human retinal imaging with a high-resolution microscope-integrated spectral domain optical coherence tomography device. <i>Retina</i> , <b>2013</b> , 33, 1328-37	3.6	64
178	Fully automatic software for retinal thickness in eyes with diabetic macular edema from images acquired by cirrus and spectralis systems <b>2013</b> , 54, 7595-602		53
177	Visualization of real-time intraoperative maneuvers with a microscope-mounted spectral domain optical coherence tomography system. <i>Retina</i> , <b>2013</b> , 33, 232-6	3.6	61
176	Validated automatic segmentation of AMD pathology including drusen and geographic atrophy in SD-OCT images <b>2012</b> , 53, 53-61		175
175	Dual-depth SS-OCT for simultaneous complex resolved anterior segment and conventional retinal imaging <b>2012</b> ,		2
174	Simultaneous swept source optical coherence tomography of the anterior segment and retina using coherence revival. <i>Optics Letters</i> , <b>2012</b> , 37, 1883-5	3	35
173	Complete complex conjugate resolved heterodyne swept source optical coherence tomography using a dispersive optical delay line: erratum. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 630-2	3.5	4
172	Complex conjugate resolved heterodyne swept source optical coherence tomography using coherence revival. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 633-49	3.5	32
171	Sparsity based denoising of spectral domain optical coherence tomography images. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 927-42	3.5	165
170	Automatic segmentation of closed-contour features in ophthalmic images using graph theory and dynamic programming. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 1127-40	3.5	45
169	Corneal biometry from volumetric SDOCT and comparison with existing clinical modalities. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 1279-90	3.5	14
168	Structured oblique illumination microscopy for enhanced resolution imaging of non-fluorescent, coherently scattering samples. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 1841-54	3.5	42
167	Distributed scanning volumetric SDOCT for motion corrected corneal biometry. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 2050-65	3.5	18
166	Efficient sweep buffering in swept source optical coherence tomography using a fast optical switch. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 3054-66	3.5	15
165	Complete complex conjugate resolved heterodyne swept-source optical coherence tomography using a dispersive optical delay line. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 1218-32	3.5	12
164	Robust automatic segmentation of corneal layer boundaries in SDOCT images using graph theory and dynamic programming. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 1524-38	3.5	82
163	Doppler velocity detection limitations in spectrometer-based versus swept-source optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 2175-88	3.5	98
162	Dynamics of human foveal development after premature birth. <i>Ophthalmology</i> , <b>2011</b> , 118, 2315-25	7.3	154



161	Integration of a spectral domain optical coherence tomography system into a surgical microscope for intraoperative imaging <b>2011</b> , 52, 3153-9		114
160	Visualization of vitreoretinal surgical manipulations using intraoperative spectral domain optical coherence tomography <b>2011</b> ,		5
159	Doppler velocity detection limitations in spectrometer and swept-source Fourier-domain optical coherence tomography <b>2011</b> ,		1
158	Depth-Encoded Spectral Domain Phase Microscopy for Simultaneous Multi-Site Nanoscale Optical Measurements. <i>Optics Communications</i> , <b>2011</b> , 284, 4847-4851	2	2
157	Pilot study of optical coherence tomography measurement of retinal blood flow in retinal and optic nerve diseases <b>2011</b> , 52, 840-5		126
156	The use of optical coherence tomography in intraoperative ophthalmic imaging. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , <b>2011</b> , 42 Suppl, S85-94	1.4	56
155	Spectral Domain Phase Microscopy. <i>Springer Series in Surface Sciences</i> , <b>2011</b> , 199-228	0.4	1
154	Optimizing hand-held spectral domain optical coherence tomography imaging for neonates, infants, and children <b>2010</b> , 51, 2678-85		163
153	Quantitative comparison of drusen segmented on SD-OCT versus drusen delineated on color fundus photographs <b>2010</b> , 51, 4875-83		89
152	Longitudinal optical imaging of tumor metabolism and hemodynamics. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 011112	3.5	46
151	Interlaced spectrally encoded confocal scanning laser ophthalmoscopy and spectral domain optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2010</b> , 1, 431-440	3.5	16
150	3D refraction correction and extraction of clinical parameters from spectral domain optical coherence tomography of the cornea. <i>Optics Express</i> , <b>2010</b> , 18, 8923-36	3.3	64
149	Automatic segmentation of seven retinal layers in SDOCT images congruent with expert manual segmentation. <i>Optics Express</i> , <b>2010</b> , 18, 19413-28	3.3	502
148	Spectrally encoded confocal scanning laser ophthalmoscopy. <i>Optics Letters</i> , <b>2010</b> , 35, 574-6	3	10
147	Crosstalk rejection in parallel optical coherence tomography using spatially incoherent illumination with partially coherent sources. <i>Optics Letters</i> , <b>2010</b> , 35, 2305-7	3	40
146	Intraoperative spectral domain optical coherence tomography for vitreoretinal surgery. <i>Optics Letters</i> , <b>2010</b> , 35, 3315-7	3	106
145	Longitudinal Optical Imaging of Tumor Metabolism and Hemodynamics <b>2010</b> ,		1
144	Abnormal foveal morphology in ocular albinism imaged with spectral-domain optical coherence tomography. <i>JAMA Ophthalmology</i> , <b>2009</b> , 127, 37-44		103

143	Quantitative measurement of blood flow dynamics in embryonic vasculature using spectral Doppler velocimetry. <i>Anatomical Record</i> , <b>2009</b> , 292, 311-9	2.1	44
142	Developing SDOCT to assess donor human eyes prior to tissue sectioning for research. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , <b>2009</b> , 247, 1069-80	3.8	14
141	Photoreceptor layer thinning over drusen in eyes with age-related macular degeneration imaged in vivo with spectral-domain optical coherence tomography. <i>Ophthalmology</i> , <b>2009</b> , 116, 488-496.e2	7.3	209
140	Spectral domain optical coherence tomography imaging of geographic atrophy margins. <i>Ophthalmology</i> , <b>2009</b> , 116, 1762-9	7.3	106
139	Single-camera sequential-scan-based polarization-sensitive SDOCT for retinal imaging. <i>Optics Letters</i> , <b>2009</b> , 34, 205-7	3	22
138	Combined hyperspectral and spectral domain optical coherence tomography microscope for noninvasive hemodynamic imaging. <i>Optics Letters</i> , <b>2009</b> , 34, 289-91	3	39
137	Velocity-resolved 3D retinal microvessel imaging using single-pass flow imaging spectral domain optical coherence tomography. <i>Optics Express</i> , <b>2009</b> , 17, 4177-88	3.3	55
136	Synthetic wavelength based phase unwrapping in spectral domain optical coherence tomography. <i>Optics Express</i> , <b>2009</b> , 17, 5039-51	3.3	38
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