# Joseph A Izatt

## List of Publications by Citations



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|---|---|---|---|
| 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 | Sensitivity advantage of swept source and Fourier domain optical coherence tomography. *Optics Express*, **2003**, 11, 2183-9 | 3.3 | 1324 |
| 285 | Imaging of macular diseases with optical coherence tomography. *Ophthalmology*, **1995**, 102, 217-29 | 7.3 | 1016 |
| 284 | Micrometer-scale resolution imaging of the anterior eye in vivo with optical coherence tomography. *JAMA Ophthalmology*, **1994**, 112, 1584-9 | | 690 |
| 283 | Automatic segmentation of seven retinal layers in SDOCT images congruent with expert manual segmentation. *Optics Express*, **2010**, 18, 19413-28 | 3.3 | 502 |
| 282 | In vivo bidirectional color Doppler flow imaging of picoliter blood volumes using optical coherence tomography. *Optics Letters*, **1997**, 22, 1439-41 | 3 | 500 |
| 281 | Optical coherence microscopy in scattering media. *Optics Letters*, **1994**, 19, 590-2 | 3 | 469 |
| 280 | Optical coherence tomography for optical biopsy. Properties and demonstration of vascular pathology. *Circulation*, **1996**, 93, 1206-13 | 16.7 | 363 |
| 279 | In vivo video rate optical coherence tomography. *Optics Express*, **1998**, 3, 219-29 | 3.3 | 334 |
| 278 | Adaptive-optics optical coherence tomography for high-resolution and high-speed 3D retinal in vivo imaging. *Optics Express*, **2005**, 13, 8532-8546 | 3.3 | 330 |
| 277 | Comparison of optical coherence tomography and ultrasound biomicroscopy for detection of narrow anterior chamber angles. *JAMA Ophthalmology*, **2005**, 123, 1053-9 | | 304 |
| 276 | Spectral-domain phase microscopy. *Optics Letters*, **2005**, 30, 1162-4 | 3 | 263 |
| 275 | High-resolution endoscopic imaging of the GI tract using optical coherence tomography. *Gastrointestinal Endoscopy*, **2000**, 51, 474-9 | 5.2 | 262 |
| 274 | Fully automated detection of diabetic macular edema and dry age-related macular degeneration from optical coherence tomography images. *Biomedical Optics Express*, **2014**, 5, 3568-77 | 3.5 | 227 |
| 273 | Photoreceptor layer thinning over drusen in eyes with age-related macular degeneration imaged in vivo with spectral-domain optical coherence tomography. *Ophthalmology*, **2009**, 116, 488-496.e2 | 7.3 | 209 |
| 272 | Quantitative classification of eyes with and without intermediate age-related macular degeneration using optical coherence tomography. *Ophthalmology*, **2014**, 121, 162-172 | 7.3 | 192 |
| 271 | Drosophila as a model for the identification of genes causing adult human heart disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 1394-9 | 11.5 | 185 |
| 270 | Validated automatic segmentation of AMD pathology including drusen and geographic atrophy in SD-OCT images **2012**, 53, 53-61 | | 175 |

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| 269 | Kernel regression based segmentation of optical coherence tomography images with diabetic macular edema. *Biomedical Optics Express*, **2015**, 6, 1172-94 | 3.5 | 168 |
| 268 | Optimal interferometer designs for optical coherence tomography. *Optics Letters*, **1999**, 24, 1484-6 | 3 | 168 |
| 267 | Sparsity based denoising of spectral domain optical coherence tomography images. *Biomedical Optics Express*, **2012**, 3, 927-42 | 3.5 | 165 |
| 266 | Optimizing hand-held spectral domain optical coherence tomography imaging for neonates, infants, and children **2010**, 51, 2678-85 | | 163 |
| 265 | Anterior chamber width measurement by high-speed optical coherence tomography. *Ophthalmology*, **2005**, 112, 238-44 | 7.3 | 162 |
| 264 | In vivo total retinal blood flow measurement by Fourier domain Doppler optical coherence tomography. *Journal of Biomedical Optics*, **2007**, 12, 041215 | 3.5 | 157 |
| 263 | Femtosecond transillumination optical coherence tomography. *Optics Letters*, **1993**, 18, 950-2 | 3 | 157 |
| 262 | Dynamics of human foveal development after premature birth. *Ophthalmology*, **2011**, 118, 2315-25 | 7.3 | 154 |
| 261 | Correction of geometric and refractive image distortions in optical coherence tomography applying Fermat's principle. *Optics Express*, **2002**, 10, 397-404 | 3.3 | 154 |
| 260 | Imaging and velocimetry of the human retinal circulation with color Doppler optical coherence tomography. *Optics Letters*, **2000**, 25, 1448-50 | 3 | 150 |
| 259 | Real-time in vivo imaging of human gastrointestinal ultrastructure by use of endoscopic optical coherence tomography with a novel efficient interferometer design. *Optics Letters*, **1999**, 24, 1358-60 | 3 | 145 |
| 258 | Swept source optical coherence tomography using an all-fiber 1300-nm ring laser source. *Journal of Biomedical Optics*, **2005**, 10, 44009 | 3.5 | 142 |
| 257 | Fast acquisition and reconstruction of optical coherence tomography images via sparse representation. *IEEE Transactions on Medical Imaging*, **2013**, 32, 2034-49 | 11.7 | 141 |
| 256 | High-resolution cross-sectional imaging of the gastrointestinal tract using optical coherence tomography: preliminary results. *Gastrointestinal Endoscopy*, **1998**, 47, 515-23 | 5.2 | 141 |
| 255 | Optical coherence tomography: a new high-resolution imaging technology to study cardiac development in chick embryos. *Circulation*, **2002**, 106, 2771-4 | 16.7 | 136 |
| 254 | Drusen ultrastructure imaging with spectral domain optical coherence tomography in age-related macular degeneration. *Ophthalmology*, **2008**, 115, 1883-90 | 7.3 | 135 |
| 253 | High resolution imaging of in vivo cardiac dynamics using color Doppler optical coherence tomography. *Optics Express*, **1997**, 1, 424-31 | 3.3 | 132 |
| 252 | Retinal blood flow measurement by circumpapillary Fourier domain Doppler optical coherence tomography. *Journal of Biomedical Optics*, **2008**, 13, 064003 | 3.5 | 129 |

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| 251 | Pilot study of optical coherence tomography measurement of retinal blood flow in retinal and optic nerve diseases **2011**, 52, 840-5 | | 126 |
| 250 | Photothermal optical coherence tomography of epidermal growth factor receptor in live cells using immunotargeted gold nanospheres. *Nano Letters*, **2008**, 8, 3461-7 | 11.5 | 126 |
| 249 | Instantaneous complex conjugate resolved spectral domain and swept-source OCT using 3x3 fiber couplers. *Optics Express*, **2005**, 13, 957-67 | 3.3 | 115 |
| 248 | Integration of a spectral domain optical coherence tomography system into a surgical microscope for intraoperative imaging **2011**, 52, 3153-9 | | 114 |
| 247 | Intraoperative spectral domain optical coherence tomography for vitreoretinal surgery. *Optics Letters*, **2010**, 35, 3315-7 | 3 | 106 |
| 246 | Spectral domain optical coherence tomography imaging of geographic atrophy margins. *Ophthalmology*, **2009**, 116, 1762-9 | 7.3 | 106 |
| 245 | Criteria for the diagnosis of dysplasia by endoscopic optical coherence tomography. *Gastrointestinal Endoscopy*, **2003**, 58, 196-202 | 5.2 | 105 |
| 244 | Abnormal foveal morphology in ocular albinism imaged with spectral-domain optical coherence tomography. *JAMA Ophthalmology*, **2009**, 127, 37-44 | | 103 |
| 243 | Automated non-rigid registration and mosaicing for robust imaging of distinct retinal capillary beds using speckle variance optical coherence tomography. *Biomedical Optics Express*, **2013**, 4, 803-21 | 3.5 | 100 |
| 242 | High-resolution endoscopic imaging of the GI tract: a comparative study of optical coherence tomography versus high-frequency catheter probe EUS. *Gastrointestinal Endoscopy*, **2001**, 54, 219-24 | 5.2 | 100 |
| 241 | Doppler velocity detection limitations in spectrometer-based versus swept-source optical coherence tomography. *Biomedical Optics Express*, **2011**, 2, 2175-88 | 3.5 | 98 |
| 240 | Single-pass volumetric bidirectional blood flow imaging spectral domain optical coherence tomography using a modified Hilbert transform. *Optics Express*, **2008**, 16, 12350-61 | 3.3 | 98 |
| 239 | Full-field swept-source phase microscopy. *Optics Letters*, **2006**, 31, 1462-4 | 3 | 96 |
| 238 | Instantaneous quadrature low-coherence interferometry with 3 x 3 fiber-optic couplers. *Optics Letters*, **2003**, 28, 2162-4 | 3 | 95 |
| 237 | Quantitative comparison of drusen segmented on SD-OCT versus drusen delineated on color fundus photographs **2010**, 51, 4875-83 | | 89 |
| 236 | In vivo imaging of human retinal flow dynamics by color Doppler optical coherence tomography. *JAMA Ophthalmology*, **2003**, 121, 235-9 | | 89 |
| 235 | Molecular contrast in optical coherence tomography by use of a pump-probe technique. *Optics Letters*, **2003**, 28, 340-2 | 3 | 87 |
| 234 | Real-time, high velocity-resolution color Doppler optical coherence tomography. *Optics Letters*, **2002**, 27, 34-6 | 3 | 86 |

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| 233 | Imaging the ocular anterior segment with real-time, full-range Fourier-domain optical coherence tomography. *JAMA Ophthalmology*, **2008**, 126, 537-42 | | 84 |
| 232 | Review of intraoperative optical coherence tomography: technology and applications [Invited]. *Biomedical Optics Express*, **2017**, 8, 1607-1637 | 3.5 | 82 |
| 231 | Automatic segmentation of up to ten layer boundaries in SD-OCT images of the mouse retina with and without missing layers due to pathology. *Biomedical Optics Express*, **2014**, 5, 348-65 | 3.5 | 82 |
| 230 | Robust automatic segmentation of corneal layer boundaries in SDOCT images using graph theory and dynamic programming. *Biomedical Optics Express*, **2011**, 2, 1524-38 | 3.5 | 82 |
| 229 | Velocity-estimation accuracy and frame-rate limitations in color Doppler optical coherence tomography. *Optics Letters*, **1998**, 23, 1057-9 | 3 | 79 |
| 228 | Detailed visualization of the anterior segment using fourier-domain optical coherence tomography. *JAMA Ophthalmology*, **2008**, 126, 765-71 | | 74 |
| 227 | Fourier-domain low-coherence interferometry for light-scattering spectroscopy. *Optics Letters*, **2003**, 28, 1230-2 | 3 | 72 |
| 226 | Femtosecond transillumination tomography in thick tissues. *Optics Letters*, **1993**, 18, 1107 | 3 | 72 |
| 225 | Quantitative analysis of Pc 4 localization in mouse lymphoma (LY-R) cells via double-label confocal fluorescence microscopy. *Photochemistry and Photobiology*, **2000**, 71, 634-9 | 3.6 | 69 |
| 224 | Group index of the human cornea at 1.3-microm wavelength obtained in vitro by optical coherence domain reflectometry. *Optics Letters*, **2004**, 29, 83-5 | 3 | 68 |
| 223 | Real-time in vivo color Doppler optical coherence tomography. *Journal of Biomedical Optics*, **2002**, 7, 123-9 | 3.5 | 68 |
| 222 | Preclinical evaluation and intraoperative human retinal imaging with a high-resolution microscope-integrated spectral domain optical coherence tomography device. *Retina*, **2013**, 33, 1328-37 | 3.6 | 64 |
| 221 | 3D refraction correction and extraction of clinical parameters from spectral domain optical coherence tomography of the cornea. *Optics Express*, **2010**, 18, 8923-36 | 3.3 | 64 |
| 220 | Spectral triangulation molecular contrast optical coherence tomography with indocyanine green as the contrast agent. *Optics Letters*, **2004**, 29, 2016-8 | 3 | 64 |
| 219 | Visualization of real-time intraoperative maneuvers with a microscope-mounted spectral domain optical coherence tomography system. *Retina*, **2013**, 33, 232-6 | 3.6 | 61 |
| 218 | Frequency estimation precision in Doppler optical coherence tomography using the Cramer-Rao lower bound. *Optics Express*, **2005**, 13, 410-6 | 3.3 | 57 |
| 217 | The use of optical coherence tomography in intraoperative ophthalmic imaging. *Ophthalmic Surgery Lasers and Imaging Retina*, **2011**, 42 Suppl, S85-94 | 1.4 | 56 |
| 216 | Velocity-resolved 3D retinal microvessel imaging using single-pass flow imaging spectral domain optical coherence tomography. *Optics Express*, **2009**, 17, 4177-88 | 3.3 | 55 |

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| 215 | Correlation of pathologic features in spectral domain optical coherence tomography with conventional retinal studies. *Retina*, **2008**, 28, 298-308 | 3.6 | 55 |
| 214 | Role of corneal elasticity in damping of intraocular pressure. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 2540-4 | | 55 |
| 213 | Simplified method for polarization-sensitive optical coherence tomography. *Optics Letters*, **2001**, 26, 1069-71 | 3 | 55 |
| 212 | Fully automatic software for retinal thickness in eyes with diabetic macular edema from images acquired by cirrus and spectralis systems **2013**, 54, 7595-602 | | 53 |
| 211 | OPTICAL COHERENCE TOMOGRAPHY FOR BIODIAGNOSTICS. *Optics and Photonics News*, **1997**, 8, 41 | 1.9 | 52 |
| 210 | Structured illumination multimodal 3D-resolved quantitative phase and fluorescence sub-diffraction microscopy. *Biomedical Optics Express*, **2017**, 8, 2496-2518 | 3.5 | 51 |
| 209 | Correlation of endoscopic optical coherence tomography with histology in the lower-GI tract. *Gastrointestinal Endoscopy*, **2005**, 61, 537-46 | 5.2 | 51 |
| 208 | Protein-based molecular contrast optical coherence tomography with phytochrome as the contrast agent. *Optics Letters*, **2004**, 29, 1396-8 | 3 | 51 |
| 207 | Heterodyne swept-source optical coherence tomography for complete complex conjugate ambiguity removal. *Journal of Biomedical Optics*, **2005**, 10, 064005 | 3.5 | 51 |
| 206 | Automatic cone photoreceptor segmentation using graph theory and dynamic programming. *Biomedical Optics Express*, **2013**, 4, 924-37 | 3.5 | 50 |
| 205 | Images in cardiovascular medicine: in vivo imaging of the adult Drosophila melanogaster heart with real-time optical coherence tomography. *Circulation*, **2006**, 114, e35-6 | 16.7 | 50 |
| 204 | High-flow-velocity and shear-rate imaging by use of color Doppler optical coherence tomography. *Optics Letters*, **1999**, 24, 1584-6 | 3 | 50 |
| 203 | Polarization-resolved second-harmonic-generation optical coherence tomography in collagen. *Optics Letters*, **2004**, 29, 2252-4 | 3 | 48 |
| 202 | Handheld simultaneous scanning laser ophthalmoscopy and optical coherence tomography system. *Biomedical Optics Express*, **2013**, 4, 2307-21 | 3.5 | 47 |
| 201 | Correction of ocular shape in retinal optical coherence tomography and effect on current clinical measures. *American Journal of Ophthalmology*, **2013**, 156, 304-11 | 4.9 | 46 |
| 200 | Longitudinal optical imaging of tumor metabolism and hemodynamics. *Journal of Biomedical Optics*, **2010**, 15, 011112 | 3.5 | 46 |
| 199 | Wide-field optical model of the human eye with asymmetrically tilted and decentered lens that reproduces measured ocular aberrations. *Optica*, **2015**, 2, 124 | 8.6 | 45 |
| 198 | Automatic segmentation of closed-contour features in ophthalmic images using graph theory and dynamic programming. *Biomedical Optics Express*, **2012**, 3, 1127-40 | 3.5 | 45 |

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| 197 | Photothermal coagulation of blood vessels: a comparison of high-speed optical coherence tomography and numerical modelling. *Physics in Medicine and Biology*, **2001**, 46, 1665-78 | 3.8 | 45 |
| 196 | Unprocessed real-time imaging of vitreoretinal surgical maneuvers using a microscope-integrated spectral-domain optical coherence tomography system. *Graefes Archive for Clinical and Experimental Ophthalmology*, **2013**, 251, 213-20 | 3.8 | 44 |
| 195 | Quantitative measurement of blood flow dynamics in embryonic vasculature using spectral Doppler velocimetry. *Anatomical Record*, **2009**, 292, 311-9 | 2.1 | 44 |
| 194 | Real-time quadrature projection complex conjugate resolved Fourier domain optical coherence tomography. *Optics Letters*, **2006**, 31, 2426-8 | 3 | 44 |
| 193 | Structured oblique illumination microscopy for enhanced resolution imaging of non-fluorescent, coherently scattering samples. *Biomedical Optics Express*, **2012**, 3, 1841-54 | 3.5 | 42 |
| 192 | Spectral domain second-harmonic optical coherence tomography. *Optics Letters*, **2005**, 30, 2391-3 | 3 | 42 |
| 191 | Wavelength dependence of pulsed laser ablation of calcified tissue. *Lasers in Surgery and Medicine*, **1991**, 11, 238-49 | 3.6 | 42 |
| 190 | High-speed complex conjugate resolved retinal spectral domain optical coherence tomography using sinusoidal phase modulation. *Optics Letters*, **2007**, 32, 2918-20 | 3 | 41 |
| 189 | Enhanced volumetric visualization for real time 4D intraoperative ophthalmic swept-source OCT. *Biomedical Optics Express*, **2016**, 7, 1815-29 | 3.5 | 41 |
| 188 | Crosstalk rejection in parallel optical coherence tomography using spatially incoherent illumination with partially coherent sources. *Optics Letters*, **2010**, 35, 2305-7 | 3 | 40 |
| 187 | Visualization of subsurface blood vessels by color Doppler optical coherence tomography in rats: before and after hemostatic therapy. *Gastrointestinal Endoscopy*, **2002**, 55, 88-95 | 5.2 | 40 |
| 186 | Refractive index tomography with structured illumination. *Optica*, **2017**, 4, 537 | 8.6 | 39 |
| 185 | Combined hyperspectral and spectral domain optical coherence tomography microscope for noninvasive hemodynamic imaging. *Optics Letters*, **2009**, 34, 289-91 | 3 | 39 |
| 184 | Doppler flow imaging of cytoplasmic streaming using spectral domain phase microscopy. *Journal of Biomedical Optics*, **2006**, 11, 024014 | 3.5 | 39 |
| 183 | Investigating nanoscale cellular dynamics with cross-sectional spectral domain phase microscopy. *Optics Express*, **2007**, 15, 8115-24 | 3.3 | 39 |
| 182 | Synthetic wavelength based phase unwrapping in spectral domain optical coherence tomography. *Optics Express*, **2009**, 17, 5039-51 | 3.3 | 38 |
| 181 | Wide field of view swept-source optical coherence tomography for peripheral retinal disease. *British Journal of Ophthalmology*, **2016**, 100, 1377-82 | 5.5 | 37 |
| 180 | Piezoelectric scanning mirrors for endoscopic optical coherence tomography. *Journal of Micromechanics and Microengineering*, **2009**, 19, 095012 | 2 | 37 |

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| 179 | Simultaneous swept source optical coherence tomography of the anterior segment and retina using coherence revival. *Optics Letters*, **2012**, 37, 1883-5 | 3 | 35 |
| 178 | Novel microscope-integrated stereoscopic heads-up display for intrasurgical optical coherence tomography. *Biomedical Optics Express*, **2016**, 7, 1711-26 | 3.5 | 34 |
| 177 | Wide-field retinal optical coherence tomography with wavefront sensorless adaptive optics for enhanced imaging of targeted regions. *Biomedical Optics Express*, **2017**, 8, 16-37 | 3.5 | 34 |
| 176 | Structured illumination quantitative phase microscopy for enhanced resolution amplitude and phase imaging. *Biomedical Optics Express*, **2013**, 4, 1795-805 | 3.5 | 34 |
| 175 | Ergonomic handheld OCT angiography probe optimized for pediatric and supine imaging. *Biomedical Optics Express*, **2019**, 10, 2623-2638 | 3.5 | 34 |
| 174 | Molecular imaging of endogenous and exogenous chromophores using ground state recovery pump-probe optical coherence tomography. *Optics Express*, **2006**, 14, 9142-55 | 3.3 | 33 |
| 173 | Investigating pulsed dye laser-blood vessel interaction with color Doppler optical coherence tomography. *Optics Express*, **1998**, 3, 251-6 | 3.3 | 33 |
| 172 | Complex conjugate resolved heterodyne swept source optical coherence tomography using coherence revival. *Biomedical Optics Express*, **2012**, 3, 633-49 | 3.5 | 32 |
| 171 | High-speed optical coherence tomography of laser iridotomy. *American Journal of Ophthalmology*, **2005**, 140, 1133-6 | 4.9 | 31 |
| 170 | Handheld, rapidly switchable, anterior/posterior segment swept source optical coherence tomography probe. *Biomedical Optics Express*, **2015**, 6, 4516-28 | 3.5 | 30 |
| 169 | Real-Time Microscope-Integrated OCT to Improve Visualization in DSAEK for Advanced Bullous Keratopathy. *Cornea*, **2015**, 34, 1606-10 | 3.1 | 30 |
| 168 | Intrasurgical Human Retinal Imaging With Manual Instrument Tracking Using a Microscope-Integrated Spectral-Domain Optical Coherence Tomography Device. *Translational Vision Science and Technology*, **2015**, 4, 1 | 3.3 | 30 |
| 167 | cellular-resolution retinal imaging in infants and children using an ultracompact handheld probe. *Nature Photonics*, **2016**, 10, 580-584 | 33.9 | 30 |
| 166 | Optical coherence refraction tomography.. *Nature Photonics*, **2019**, 13, 794-802 | 33.9 | 29 |
| 165 | Impact of Microscope-Integrated OCT on Ophthalmology Resident Performance of Anterior Segment Surgical Maneuvers in Model Eyes **2016**, 57, OCT146-53 | | 29 |
| 164 | Optical coherence tomography accurately measures corneal power change from laser refractive surgery. *Ophthalmology*, **2015**, 122, 677-86 | 7.3 | 28 |
| 163 | Statistical Models of Signal and Noise and Fundamental Limits of Segmentation Accuracy in Retinal Optical Coherence Tomography. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1978-1988 | 11.7 | 28 |
| 162 | Posterior Eye Shape Measurement With Retinal OCT Compared to MRI **2016**, 57, OCT196-203 | | 28 |

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| 161 | Real-time corneal segmentation and 3D needle tracking in intrasurgical OCT. *Biomedical Optics Express*, **2018**, 9, 2716-2732 | 3.5 | 27 |
| 160 | Optical Coherence Tomography for Retinal Surgery: Perioperative Analysis to Real-Time Four-Dimensional Image-Guided Surgery **2016**, 57, OCT37-50 | | 27 |
| 159 | Theory of Optical Coherence Tomography **2015**, 65-94 | | 26 |
| 158 | Length-adaptive graph search for automatic segmentation of pathological features in optical coherence tomography images. *Journal of Biomedical Optics*, **2016**, 21, 76015 | 3.5 | 26 |
| 157 | Microscope-Integrated Optical Coherence Tomography Angiography in the Operating Room in Young Children With Retinal Vascular Disease. *JAMA Ophthalmology*, **2017**, 135, 483-486 | 3.9 | 25 |
| 156 | Pupil tracking optical coherence tomography for precise control of pupil entry position. *Biomedical Optics Express*, **2015**, 6, 3405-19 | 3.5 | 25 |
| 155 | Real-time spectral domain Doppler optical coherence tomography and investigation of human retinal vessel autoregulation. *Journal of Biomedical Optics*, **2007**, 12, 041214 | 3.5 | 25 |
| 154 | Optimization of confocal scanning laser ophthalmoscope design. *Journal of Biomedical Optics*, **2013**, 18, 076015 | 3.5 | 24 |
| 153 | Enhanced visualization of peripheral retinal vasculature with wavefront sensorless adaptive optics optical coherence tomography angiography in diabetic patients. *Optics Letters*, **2017**, 42, 17-20 | 3 | 23 |
| 152 | Needle Depth and Big-Bubble Success in Deep Anterior Lamellar Keratoplasty: An Ex Vivo Microscope-Integrated OCT Study. *Cornea*, **2016**, 35, 1471-1477 | 3.1 | 22 |
| 151 | Single-camera sequential-scan-based polarization-sensitive SDOCT for retinal imaging. *Optics Letters*, **2009**, 34, 205-7 | 3 | 22 |
| 150 | Imaging of the atrioventricular node using optical coherence tomography. *Journal of Cardiovascular Electrophysiology*, **2002**, 13, 95 | 2.7 | 22 |
| 149 | Constant linear velocity spiral scanning for near video rate 4D OCT ophthalmic and surgical imaging with isotropic transverse sampling. *Biomedical Optics Express*, **2018**, 9, 5052-5070 | 3.5 | 22 |
| 148 | True color scanning laser ophthalmoscopy and optical coherence tomography handheld probe. *Biomedical Optics Express*, **2014**, 5, 3204-16 | 3.5 | 21 |
| 147 | Screening for previous refractive surgery in eye bank corneas by using optical coherence tomography. *Cornea*, **2007**, 26, 594-9 | 3.1 | 21 |
| 146 | 3-D Adaptive Sparsity Based Image Compression With Applications to Optical Coherence Tomography. *IEEE Transactions on Medical Imaging*, **2015**, 34, 1306-20 | 11.7 | 20 |
| 145 | Spatial frequency-domain multiplexed microscopy for simultaneous, single-camera, one-shot, fluorescent, and quantitative-phase imaging. *Optics Letters*, **2015**, 40, 4839-42 | 3 | 20 |
| 144 | Pulsed laser ablation of calcified tissue: physical mechanisms and fundamental parameters **1990**, | | 20 |

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| 143 | Structured illumination diffraction phase microscopy for broadband, subdiffraction resolution, quantitative phase imaging. *Optics Letters*, **2014**, 39, 1015-8 | 3 | 19 |
| 142 | INTRAOPERATIVE SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY IMAGING AFTER INTERNAL LIMITING MEMBRANE PEELING IN IDIOPATHIC EPIRETINAL MEMBRANE WITH CONNECTING STRANDS. *Retina*, **2015**, 35, 1622-30 | 3.6 | 19 |
| 141 | Distributed scanning volumetric SDOCT for motion corrected corneal biometry. *Biomedical Optics Express*, **2012**, 3, 2050-65 | 3.5 | 18 |
| 140 | Fast detection and segmentation of drusen in retinal optical coherence tomography images **2008**, | | 18 |
| 139 | Spectral domain phase microscopy for local measurements of cytoskeletal rheology in single cells. *Journal of Biomedical Optics*, **2007**, 12, 044008 | 3.5 | 18 |
| 138 | Phase retrieval in low-coherence interferometric microscopy. *Optics Letters*, **2007**, 32, 388-90 | 3 | 18 |
| 137 | Theoretical comparison of the sensitivity of molecular contrast optical coherence tomography techniques. *Optics Express*, **2005**, 13, 8146-63 | 3.3 | 18 |
| 136 | Handheld Adaptive Optics Scanning Laser Ophthalmoscope. *Optica*, **2018**, 5, 1027-1036 | 8.6 | 17 |
| 135 | Volumetric Measurement of Subretinal Blebs Using Microscope-Integrated Optical Coherence Tomography. *Translational Vision Science and Technology*, **2018**, 7, 19 | 3.3 | 17 |
| 134 | Coherence revival multiplexed, buffered swept source optical coherence tomography: 400 kHz imaging with a 100 kHz source. *Optics Letters*, **2014**, 39, 3740-3 | 3 | 17 |
| 133 | Imaging of iris lesions with high-speed optical coherence tomography. *Ophthalmic Surgery Lasers and Imaging Retina*, **2007**, 38, 27-34 | 1.4 | 17 |
| 132 | Interlaced spectrally encoded confocal scanning laser ophthalmoscopy and spectral domain optical coherence tomography. *Biomedical Optics Express*, **2010**, 1, 431-440 | 3.5 | 16 |
| 131 | MICRON~RESOLUTION BIOMEDICAL IMAGING WITH OPTICAL COHERENCE TOMOGRAPHY. *Optics and Photonics News*, **1993**, 4, 14 | 1.9 | 16 |
| 130 | Structured illumination microscopy for dual-modality 3D sub-diffraction resolution fluorescence and refractive-index reconstruction. *Biomedical Optics Express*, **2017**, 8, 5776-5793 | 3.5 | 15 |
| 129 | Efficient sweep buffering in swept source optical coherence tomography using a fast optical switch. *Biomedical Optics Express*, **2012**, 3, 3054-66 | 3.5 | 15 |
| 128 | Developing SDOCT to assess donor human eyes prior to tissue sectioning for research. *Graefes Archive for Clinical and Experimental Ophthalmology*, **2009**, 247, 1069-80 | 3.8 | 14 |
| 127 | Corneal biometry from volumetric SDOCT and comparison with existing clinical modalities. *Biomedical Optics Express*, **2012**, 3, 1279-90 | 3.5 | 14 |
| 126 | Self-referenced Doppler optical coherence tomography. *Optics Letters*, **2002**, 27, 2085-7 | 3 | 14 |

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| 125 | VISUALIZATION FROM INTRAOPERATIVE SWEPT-SOURCE MICROSCOPE-INTEGRATED OPTICAL COHERENCE TOMOGRAPHY IN VITRECTOMY FOR COMPLICATIONS OF PROLIFERATIVE DIABETIC RETINOPATHY. *Retina*, **2018**, 38 Suppl 1, S110-S120 | 3.6 | 13 |
| 124 | Real-time visualization and interaction with static and live optical coherence tomography volumes in immersive virtual reality. *Biomedical Optics Express*, **2018**, 9, 2825-2843 | 3.5 | 13 |
| 123 | Macular OCT Characteristics at 36 WeeksTPostmenstrual Age in Infants Examined for Retinopathy of Prematurity. *Ophthalmology Retina*, **2021**, 5, 580-592 | 3.8 | 13 |
| 122 | Pupil Tracking for Real-Time Motion Corrected Anterior Segment Optical Coherence Tomography. *PLoS ONE*, **2016**, 11, e0162015 | 3.7 | 13 |
| 121 | Super-resolution retinal imaging using optically reassigned scanning laser ophthalmoscopy. *Nature Photonics*, **2019**, 13, 257-262 | 33.9 | 12 |
| 120 | Complete complex conjugate resolved heterodyne swept-source optical coherence tomography using a dispersive optical delay line. *Biomedical Optics Express*, **2011**, 2, 1218-32 | 3.5 | 12 |
| 119 | Complete 360□circumferential gonioscopic optical coherence tomography imaging of the iridocorneal angle. *Biomedical Optics Express*, **2015**, 6, 1376-91 | 3.5 | 11 |
| 118 | Intraoperative 4-Dimensional Microscope-Integrated Optical Coherence Tomography-Guided 27-Gauge Transvitreal Choroidal Biopsy for Choroidal Melanoma. *Retina*, **2017**, 37, 796-799 | 3.6 | 11 |
| 117 | Ophthalmic diagnostics using optical coherence tomography **1993**, | | 11 |
| 116 | Compressed wavefront sensing. *Optics Letters*, **2014**, 39, 1189-92 | 3 | 10 |
| 115 | Spectrally encoded confocal scanning laser ophthalmoscopy. *Optics Letters*, **2010**, 35, 574-6 | 3 | 10 |
| 114 | Wide-field whole eye OCT system with demonstration of quantitative retinal curvature estimation. *Biomedical Optics Express*, **2019**, 10, 338-355 | 3.5 | 10 |
| 113 | Intra-operative microscope-integrated swept-source optical coherence tomography guided placement of Argus II retinal prosthesis. *Acta Ophthalmologica*, **2017**, 95, e431-e432 | 3.7 | 9 |
| 112 | Three-dimensional images and vessel rendering using optical coherence tomography. *Archives of Dermatology*, **2007**, 143, 1468-9 | | 9 |
| 111 | Ultrahigh-velocity resolution imaging of the microcirculation in-vivo using color Doppler optical coherence tomography **2001**, 4251, 156 | | 9 |
| 110 | Real-Time Volumetric Imaging of Vitreoretinal Surgery with a Prototype Microscope-Integrated Swept-Source OCT Device. *Ophthalmology Retina*, **2018**, 2, 401-410 | 3.8 | 8 |
| 109 | Four-dimensional Microscope-Integrated Optical Coherence Tomography to Visualize Suture Depth in Strabismus Surgery. *Journal of Pediatric Ophthalmology and Strabismus*, **2017**, 54, e1-e5 | 0.9 | 8 |
| 108 | Intraocular Pressure and Big Bubble Diameter in Deep Anterior Lamellar Keratoplasty: An Ex-Vivo Microscope-Integrated OCT With Heads-Up Display Study. *Asia-Pacific Journal of Ophthalmology*, **2017**, 6, 412-417 | 3.5 | 7 |

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