James G Fujimoto

List of Publications by Citations

201 papers	24,275 citations	72 h-index	155 g-index
217 ext. papers	29,335 ext. citations	6.6 avg, IF	6.87 L-index

#	Paper	IF	Citations
201	Split-spectrum amplitude-decorrelation angiography with optical coherence tomography. *Optics Express*, **2012**, 20, 4710-25	3.3	1250
200	In vivo endoscopic optical biopsy with optical coherence tomography. *Science*, **1997**, 276, 2037-9	33.3	1060
199	Imaging of macular diseases with optical coherence tomography. *Ophthalmology*, **1995**, 102, 217-29	7.3	1016
198	Ultrahigh-resolution, high-speed, Fourier domain optical coherence tomography and methods for dispersion compensation. *Optics Express*, **2004**, 12, 2404-22	3.3	775
197	Optical coherence tomography for ultrahigh resolution in vivo imaging. *Nature Biotechnology*, **2003**, 21, 1361-7	44.5	743
196	Ultrahigh-resolution ophthalmic optical coherence tomography. *Nature Medicine*, **2001**, 7, 502-7	50.5	729
195	IMAGE ARTIFACTS IN OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. *Retina*, **2015**, 35, 2163-80	3.6	684
194	Optical biopsy and imaging using optical coherence tomography. *Nature Medicine*, **1995**, 1, 970-2	50.5	660
193	Optical coherence tomography angiography. *Progress in Retinal and Eye Research*, **2018**, 64, 1-55	20.5	659
192	Reproducibility of nerve fiber layer thickness measurements using optical coherence tomography. *Ophthalmology*, **1996**, 103, 1889-98	7.3	592
191	State-of-the-art retinal optical coherence tomography. *Progress in Retinal and Eye Research*, **2008**, 27, 45-88	20.5	589
190	Optical coherence tomography: an emerging technology for biomedical imaging and optical biopsy. *Neoplasia*, **2000**, 2, 9-25	6.4	568
189	Quantitative optical coherence tomography angiography of choroidal neovascularization in age-related macular degeneration. *Ophthalmology*, **2014**, 121, 1435-44	7.3	550
188	Three-dimensional retinal imaging with high-speed ultrahigh-resolution optical coherence tomography. *Ophthalmology*, **2005**, 112, 1734-46	7.3	532
187	Topography of diabetic macular edema with optical coherence tomography. *Ophthalmology*, **1998**, 105, 360-70	7.3	513
186	Optical coherence tomography angiography of optic disc perfusion in glaucoma. *Ophthalmology*, **2014**, 121, 1322-32	7.3	498
185	Quantitative optical coherence tomography angiography of vascular abnormalities in the living human eye. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2395-402	11.5	474

184	Optical coherence microscopy in scattering media. *Optics Letters*, **1994**, 19, 590-2	3	469
183	Macular segmentation with optical coherence tomography. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 2012-7		397
182	Optical coherence tomography of macular holes. *Ophthalmology*, **1995**, 102, 748-56	7.3	388
181	Enhanced visualization of macular pathology with the use of ultrahigh-resolution optical coherence tomography. *JAMA Ophthalmology*, **2003**, 121, 695-706		376
180	Optical coherence tomography for optical biopsy. Properties and demonstration of vascular pathology. *Circulation*, **1996**, 93, 1206-13	16.7	363
179	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
178	Optical coherence tomography of age-related macular degeneration and choroidal neovascularization. *Ophthalmology*, **1996**, 103, 1260-70	7.3	346
177	Characterization of epiretinal membranes using optical coherence tomography. *Ophthalmology*, **1996**, 103, 2142-51	7.3	309
176	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
175	Buffered Fourier domain mode locking: Unidirectional swept laser sources for optical coherence tomography imaging at 370,000 lines/s. *Optics Letters*, **2006**, 31, 2975-7	3	296
174	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
173	High-definition and 3-dimensional imaging of macular pathologies with high-speed ultrahigh-resolution optical coherence tomography. *Ophthalmology*, **2006**, 113, 2054.e1-14	7.3	268
172	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
171	Three-dimensional endomicroscopy using optical coherence tomography. *Nature Photonics*, **2007**, 1, 709-716	33.9	217
170	In vivo cellular optical coherence tomography imaging. *Nature Medicine*, **1998**, 4, 861-5	50.5	212
169	Choriocapillaris and choroidal microvasculature imaging with ultrahigh speed OCT angiography. *PLoS ONE*, **2013**, 8, e81499	3.7	209
168	The Development, Commercialization, and Impact of Optical Coherence Tomography **2016**, 57, OCT1-OCT13		209
167	Ultrahigh-Speed, Swept-Source Optical Coherence Tomography Angiography in Nonexudative Age-Related Macular Degeneration with Geographic Atrophy. *Ophthalmology*, **2015**, 122, 2532-44	7.3	196

166	Optical coherence tomography of central serous chorioretinopathy. *American Journal of Ophthalmology*, **1995**, 120, 65-74	4.9	184
165	Optical coherence tomography angiography of optic nerve head and parafovea in multiple sclerosis. *British Journal of Ophthalmology*, **2014**, 98, 1368-73	5.5	173
164	Ultrahigh-speed swept-source OCT angiography in exudative AMD. *Ophthalmic Surgery Lasers and Imaging Retina*, **2014**, 45, 496-505	1.4	171
163	Imaging needle for optical coherence tomography. *Optics Letters*, **2000**, 25, 1520-2	3	170
162	Consensus Nomenclature for Reporting Neovascular Age-Related Macular Degeneration Data: Consensus on Neovascular Age-Related Macular Degeneration Nomenclature Study Group. *Ophthalmology*, **2020**, 127, 616-636	7.3	154
161	Comparison of ultrahigh- and standard-resolution optical coherence tomography for imaging macular pathology. *Ophthalmology*, **2005**, 112, 1922.e1-15	7.3	146
160	En face enhanced-depth swept-source optical coherence tomography features of chronic central serous chorioretinopathy. *Ophthalmology*, **2014**, 121, 719-26	7.3	144
159	Select Features of Diabetic Retinopathy on Swept-Source Optical Coherence Tomographic Angiography Compared With Fluorescein Angiography and Normal Eyes. *JAMA Ophthalmology*, **2016**, 134, 644-50	3.9	138
158	Quantitative 3D-OCT motion correction with tilt and illumination correction, robust similarity measure and regularization. *Biomedical Optics Express*, **2014**, 5, 2591-613	3.5	128
157	Handheld ultrahigh speed swept source optical coherence tomography instrument using a MEMS scanning mirror. *Biomedical Optics Express*, **2013**, 5, 293-311	3.5	126
156	Feasibility of optical coherence tomography for high-resolution imaging of human gastrointestinal tract malignancies. *Journal of Gastroenterology*, **2000**, 35, 87-92	6.9	126
155	Comparison of optic nerve head measurements obtained by optical coherence tomography and confocal scanning laser ophthalmoscopy. *American Journal of Ophthalmology*, **2003**, 135, 504-12	4.9	125
154	Micron-resolution ranging of cornea anterior chamber by optical reflectometry. *Lasers in Surgery and Medicine*, **1991**, 11, 419-25	3.6	121
153	Assessment of breast pathologies using nonlinear microscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15304-9	11.5	119
152	Choroidal Neovascularization Analyzed on Ultrahigh-Speed Swept-Source Optical Coherence Tomography Angiography Compared to Spectral-Domain Optical Coherence Tomography Angiography. *American Journal of Ophthalmology*, **2016**, 164, 80-8	4.9	118
151	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
150	Analysis of macular volume in normal and glaucomatous eyes using optical coherence tomography. *American Journal of Ophthalmology*, **2003**, 135, 838-43	4.9	110
149	Index matching to improve optical coherence tomography imaging through blood. *Circulation*, **2001**, 103, 1999-2003	16.7	109

148	Phase-sensitive optical coherence tomography at up to 370,000 lines per second using buffered Fourier domain mode-locked lasers. *Optics Letters*, **2007**, 32, 626-8	3	104
147	Ultrahigh resolution optical coherence tomography imaging with a broadband superluminescent diode light source. *Optics Express*, **2004**, 12, 2112-9	3.3	103
146	Three-dimensional endomicroscopy of the human colon using optical coherence tomography. *Optics Express*, **2009**, 17, 784-96	3.3	98
145	Characterization of buried glands before and after radiofrequency ablation by using 3-dimensional optical coherence tomography (with videos). *Gastrointestinal Endoscopy*, **2012**, 76, 32-40	5.2	95
144	SWEPT-SOURCE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY REVEALS CHORIOCAPILLARIS ALTERATIONS IN EYES WITH NASCENT GEOGRAPHIC ATROPHY AND DRUSEN-ASSOCIATED GEOGRAPHIC ATROPHY. *Retina*, **2016**, 36 Suppl 1, S2-S11	3.6	92
143	Optical flywheels with attosecond jitter. *Nature Photonics*, **2012**, 6, 97-100	33.9	92
142	Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology. *Biomedical Optics Express*, **2013**, 4, 1119-32	3.5	92
141	A luminal unfolding microneedle injector for oral delivery of macromolecules. *Nature Medicine*, **2019**, 25, 1512-1518	50.5	88
140	Swept source/Fourier domain polarization sensitive optical coherence tomography with a passive polarization delay unit. *Optics Express*, **2012**, 20, 10229-41	3.3	88
139	Choroidal analysis in healthy eyes using swept-source optical coherence tomography compared to spectral domain optical coherence tomography. *American Journal of Ophthalmology*, **2014**, 157, 1272-1281.e1	4.9	84
138	Picosecond optical breakdown: tissue effects and reduction of collateral damage. *Lasers in Surgery and Medicine*, **1989**, 9, 193-204	3.6	83
137	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
136	Clinical Significance of Lipid-Rich Plaque Detected by Optical Coherence Tomography: A 4-Year Follow-Up Study. *Journal of the American College of Cardiology*, **2017**, 69, 2502-2513	15.1	82
135	Cubic meter volume optical coherence tomography. *Optica*, **2016**, 3, 1496-1503	8.6	81
134	Visualizing the Choriocapillaris Under Drusen: Comparing 1050-nm Swept-Source Versus 840-nm Spectral-Domain Optical Coherence Tomography Angiography **2016**, 57, OCT585-90		80
133	Benign and malignant lesions in the human breast depicted with ultrahigh resolution and three-dimensional optical coherence tomography. *Radiology*, **2007**, 244, 865-74	20.5	77
132	HIGH-RESOLUTION IMAGING OF GYNECOLOGIC NEOPLASMS USING OPTICAL COHERENCE TOMOGRAPHY. *Obstetrics and Gynecology*, **1999**, 93, 135-139	4.9	77
131	Integrated optical coherence tomography and microscopy for ex vivo multiscale evaluation of human breast tissues. *Cancer Research*, **2010**, 70, 10071-9	10.1	76

130	Continuum generation in a novel photonic crystal fiber for ultrahigh resolution optical coherence tomography at 800 nm and 1300 nm. *Optics Express*, **2006**, 14, 1145-60	3.3	76
129	Images in cardiovascular medicine. Catheter-based optical imaging of a human coronary artery. *Circulation*, **1996**, 94, 3013	16.7	72
128	Photothermal optical coherence tomography in ex vivo human breast tissues using gold nanoshells. *Optics Letters*, **2010**, 35, 700-2	3	70
127	Effective treatment of chronic radiation proctitis using radiofrequency ablation. *Therapeutic Advances in Gastroenterology*, **2009**, 2, 149-156	4.7	70
126	Optical coherence tomography using a continuous-wave, high-power, Raman continuum light source. *Optics Express*, **2004**, 12, 5287-95	3.3	68
125	Optical coherence tomography measurement of nerve fiber layer thickness and the likelihood of a visual field defect. *American Journal of Ophthalmology*, **2002**, 134, 538-46	4.9	68
124	Optical coherence tomography as a method for identifying benign and malignant microscopic structures in the prostate gland. *Urology*, **2000**, 55, 783-7	1.6	65
123	Optical Coherence Tomography Angiography of Dry Age-Related Macular Degeneration. *Developments in Ophthalmology*, **2016**, 56, 91-100		65
122	The ecosystem that powered the translation of OCT from fundamental research to clinical and commercial impact [Invited]. *Biomedical Optics Express*, **2017**, 8, 1638-1664	3.5	63
121	AN AUTOMATIC, INTERCAPILLARY AREA-BASED ALGORITHM FOR QUANTIFYING DIABETES-RELATED CAPILLARY DROPOUT USING OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. *Retina*, **2016**, 36 Suppl 1, S93-S101	3.6	61
120	Healed Culprit Plaques in Patients With Acute Coronary Syndromes. *Journal of the American College of Cardiology*, **2019**, 73, 2253-2263	15.1	58
119	En face imaging of the choroid in polypoidal choroidal vasculopathy using swept-source optical coherence tomography. *American Journal of Ophthalmology*, **2015**, 159, 634-43	4.9	57
118	Endoscopic Optical Coherence Tomography for Clinical Gastroenterology. *Diagnostics*, **2014**, 4, 57-93	3.8	57
117	Structural markers observed with endoscopic 3-dimensional optical coherence tomography correlating with Barrett's esophagus radiofrequency ablation treatment response (with videos). *Gastrointestinal Endoscopy*, **2012**, 76, 1104-12	5.2	56
116	Virtual Hematoxylin and Eosin Transillumination Microscopy Using Epi-Fluorescence Imaging. *PLoS ONE*, **2016**, 11, e0159337	3.7	54
115	Comparative studies of femtosecond to microsecond laser pulses on selective pigmented cell injury in skin. *Photochemistry and Photobiology*, **1991**, 53, 757-62	3.6	52
114	Optical Coherence Tomography Angiography Characteristics of Iris Melanocytic Tumors. *Ophthalmology*, **2017**, 124, 197-204	7.3	51
113	Wideband Electrically-Pumped 1050 nm MEMS-Tunable VCSEL for Ophthalmic Imaging. *Journal of Lightwave Technology*, **2015**, 33, 3461-3468	4	49

112	Ultrahigh speed en face OCT capsule for endoscopic imaging. *Biomedical Optics Express*, **2015**, 6, 1146-63	3.5	48
111	Choroidal Haller's and Sattler's layer thickness measurement using 3-dimensional 1060-nm optical coherence tomography. *PLoS ONE*, **2014**, 9, e99690	3.7	48
110	High speed optical coherence microscopy with autofocus adjustment and a miniaturized endoscopic imaging probe. *Optics Express*, **2010**, 18, 4222-39	3.3	47
109	Ultrahigh-resolution and 3-dimensional optical coherence tomography ex vivo imaging of the large and small intestines. *Gastrointestinal Endoscopy*, **2005**, 62, 561-74	5.2	47
108	Choroid, Haller's, and Sattler's layer thickness in intermediate age-related macular degeneration with and without fellow neovascular eyes **2014**, 55, 5074-80		44
107	Depth-encoded all-fiber swept source polarization sensitive OCT. *Biomedical Optics Express*, **2014**, 5, 2931-49	3.5	43
106	Endoscopic optical coherence angiography enables 3-dimensional visualization of subsurface microvasculature. *Gastroenterology*, **2014**, 147, 1219-21	13.3	43
105	Calcified Plaques in Patients With Acute Coronary Syndromes. *JACC: Cardiovascular Interventions*, **2019**, 12, 531-540	5	42
104	Photoreceptor Layer Thickness Changes During Dark Adaptation Observed With Ultrahigh-Resolution Optical Coherence Tomography **2017**, 58, 4632-4643		42
103	Combined 60 Wide-Field Choroidal Thickness Maps and High-Definition En Face Vasculature Visualization Using Swept-Source Megahertz OCT at 1050 nm **2015**, 56, 6284-93		42
102	Quantifying Microvascular Changes Using OCT Angiography in Diabetic Eyes without Clinical Evidence of Retinopathy. *Ophthalmology Retina*, **2018**, 2, 418-427	3.8	41
101	Enhanced vitreous imaging in healthy eyes using swept source optical coherence tomography. *PLoS ONE*, **2014**, 9, e102950	3.7	40
100	Characterization of Choroidal Layers in Normal Aging Eyes Using Enface Swept-Source Optical Coherence Tomography. *PLoS ONE*, **2015**, 10, e0133080	3.7	39
99	High-resolution optical coherence tomography imaging of the living kidney. *Laboratory Investigation*, **2008**, 88, 441-9	5.9	38
98	Correction of rotational distortion for catheter-based en face OCT and OCT angiography. *Optics Letters*, **2014**, 39, 5973-6	3	37
97	Rapid histopathological imaging of skin and breast cancer surgical specimens using immersion microscopy with ultraviolet surface excitation. *Scientific Reports*, **2018**, 8, 4476	4.9	36
96	Three-dimensional ultrahigh resolution optical coherence tomography imaging of age-related macular degeneration. *Optics Express*, **2009**, 17, 4046-60	3.3	36
95	QUANTIFICATION OF RETINAL CAPILLARY NONPERFUSION IN DIABETICS USING WIDE-FIELD OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. *Retina*, **2020**, 40, 412-420	3.6	36

94	Choriocapillaris Loss in Advanced Age-Related Macular Degeneration. *Journal of Ophthalmology*, **2018**, 2018, 8125267	2	35
93	Real-Time Optical Coherence Tomography for Minimally Invasive Imaging of Prostate Ablation. *Computer Aided Surgery*, **2001**, 6, 94-103		33
92	Rapid virtual hematoxylin and eosin histology of breast tissue specimens using a compact fluorescence nonlinear microscope. *Laboratory Investigation*, **2018**, 98, 150-160	5.9	33
91	Silicon photonic integrated circuit swept-source optical coherence tomography receiver with dual polarization, dual balanced, in-phase and quadrature detection. *Biomedical Optics Express*, **2015**, 6, 2562-74	3.5	32
90	The Definition, Rationale, and Effects of Thresholding in OCT Angiography. *Ophthalmology Retina*, **2017**, 1, 435-447	3.8	32
89	Ultrahigh speed endoscopic optical coherence tomography for gastroenterology. *Biomedical Optics Express*, **2014**, 5, 4387-404	3.5	30
88	High-resolution three-dimensional optical coherence tomography imaging of kidney microanatomy ex vivo. *Journal of Biomedical Optics*, **2007**, 12, 034008	3.5	29
87	Integrated local binary pattern texture features for classification of breast tissue imaged by optical coherence microscopy. *Medical Image Analysis*, **2017**, 38, 104-116	15.4	27
86	Rapid imaging of surgical breast excisions using direct temporal sampling two photon fluorescent lifetime imaging. *Biomedical Optics Express*, **2015**, 6, 4317-25	3.5	26
85	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
84	Multimodal optical imaging system for in vivo investigation of cerebral oxygen delivery and energy metabolism. *Biomedical Optics Express*, **2015**, 6, 4994-5007	3.5	25
83	Three-Dimensional Enhanced Imaging of Vitreoretinal Interface in Diabetic Retinopathy Using Swept-Source Optical Coherence Tomography. *American Journal of Ophthalmology*, **2016**, 162, 140-149.e1	4.9	25
82	Piezoelectric-transducer-based miniature catheter for ultrahigh-speed endoscopic optical coherence tomography. *Biomedical Optics Express*, **2011**, 2, 2438-48	3.5	25
81	Volumetric Mapping of Barrett's Esophagus and Dysplasia With en face Optical Coherence Tomography Tethered Capsule. *American Journal of Gastroenterology*, **2016**, 111, 1664-1666	0.7	24
80	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
79	En Face Doppler Optical Coherence Tomography Measurement of Total Retinal Blood Flow in Diabetic Retinopathy and Diabetic Macular Edema. *JAMA Ophthalmology*, **2017**, 135, 244-251	3.9	22
78	Controlling for Artifacts in Widefield Optical Coherence Tomography Angiography Measurements of Non-Perfusion Area. *Scientific Reports*, **2019**, 9, 9096	4.9	21
77	The prediction of permeability for an epoxy/E-glass composite using optical coherence tomographic images. *Polymer Composites*, **2001**, 22, 803-814	3	21

76	A microneedle platform for buccal macromolecule delivery. *Science Advances*, **2021**, 7,	14.3	21
75	Cycloid scanning for wide field optical coherence tomography endomicroscopy and angiography. *Optica*, **2018**, 5, 36-43	8.6	20
74	Reproducibility of in-vivo OCT measured three-dimensional human lamina cribrosa microarchitecture. *PLoS ONE*, **2014**, 9, e95526	3.7	20
73	Foreword: 25 Years of Optical Coherence Tomography **2016**, 57, OCTi-OCTii		20
72	Comparing histologic evaluation of prostate tissue using nonlinear microscopy and paraffin H&E: a pilot study. *Modern Pathology*, **2019**, 32, 1158-1167	9.8	19
71	Multiscale nonlinear microscopy and widefield white light imaging enables rapid histological imaging of surgical specimen margins. *Biomedical Optics Express*, **2018**, 9, 2457-2475	3.5	19
70	Direct comparison between confocal and multiphoton microscopy for rapid histopathological evaluation of unfixed human breast tissue. *Journal of Biomedical Optics*, **2016**, 21, 126021	3.5	19
69	Comparison of Tissue Architectural Changes between Radiofrequency Ablation and Cryospray Ablation in Barrett's Esophagus Using Endoscopic Three-Dimensional Optical Coherence Tomography. *Gastroenterology Research and Practice*, **2012**, 2012, 684832	2	18
68	Intraocular microsurgery with a picosecond Nd:YAG laser. *Lasers in Surgery and Medicine*, **1994**, 15, 44-53	3.6	18
67	Polypoidal Choroidal Vasculopathy on Swept-Source Optical Coherence Tomography Angiography with Variable Interscan Time Analysis. *Translational Vision Science and Technology*, **2017**, 6, 4	3.3	17
66	SPATIAL DISTRIBUTION OF CHORIOCAPILLARIS IMPAIRMENT IN EYES WITH CHOROIDAL NEOVASCULARIZATION SECONDARY TO AGE-RELATED MACULAR DEGENERATION: A Quantitative OCT Angiography Study. *Retina*, **2020**, 40, 428-445	3.6	17
65	Optical coherence tomography angiography (OCTA) flow speed mapping technology for retinal diseases. *Expert Review of Medical Devices*, **2018**, 15, 875-882	3.5	17
64	Evaluating anesthetic protocols for functional blood flow imaging in the rat eye. *Journal of Biomedical Optics*, **2017**, 22, 16005	3.5	16
63	Cardiac-Gated En Face Doppler Measurement of Retinal Blood Flow Using Swept-Source Optical Coherence Tomography at 100,000 Axial Scans per Second **2015**, 56, 2522-30		15
62	A Framework for Multiscale Quantitation of Relationships Between Choriocapillaris Flow Impairment and Geographic Atrophy Growth. *American Journal of Ophthalmology*, **2020**, 214, 172-187	4.9	14
61	Clinical Predictors for Lack of Favorable Vascular Response to Statin Therapy in Patients With Coronary Artery Disease: A Serial Optical Coherence Tomography Study. *Journal of the American Heart Association*, **2017**, 6,	6	12
60	Femtosecond investigations of spectral hole burning in semiconductor lasers. *Applied Physics Letters*, **1995**, 66, 1650-1652	3.4	12
59	Macular and Peripapillary Optical Coherence Tomography Angiography Metrics Predict Progression in Diabetic Retinopathy: A Sub-analysis of TIME-2b Study Data. *American Journal of Ophthalmology*, **2020**, 219, 66-76	4.9	11

58	Analyzing Relative Blood Flow Speeds in Choroidal Neovascularization Using Variable Interscan Time Analysis OCT Angiography. *Ophthalmology Retina*, **2018**, 2, 306-319	3.8	11
57	Tortuous Pore Path Through the Glaucomatous Lamina Cribrosa. *Scientific Reports*, **2018**, 8, 7281	4.9	11
56	Thick Prelaminar Tissue Decreases Lamina Cribrosa Visibility **2017**, 58, 1751-1757		10
55	Assessment of the radiofrequency ablation dynamics of esophageal tissue with optical coherence tomography. *Journal of Biomedical Optics*, **2017**, 22, 76001	3.5	10
54	Computer-aided image analysis algorithm to enhance in vivo diagnosis of plaque erosion by intravascular optical coherence tomography. *Circulation: Cardiovascular Imaging*, **2014**, 7, 805-10	3.9	10
53	Cervical inlet patch-optical coherence tomography imaging and clinical significance. *World Journal of Gastroenterology*, **2012**, 18, 2502-10	5.6	10
52	High-Speed, Ultrahigh-Resolution Spectral-Domain OCT with Extended Imaging Range Using Reference Arm Length Matching. *Translational Vision Science and Technology*, **2020**, 9, 12	3.3	10
51	Topographic analysis of macular choriocapillaris flow deficits in diabetic retinopathy using swept-source optical coherence tomography angiography. *International Journal of Retina and Vitreous*, **2020**, 6, 6	2.9	9
50	Temporal and volumetric denoising via quantile sparse image prior. *Medical Image Analysis*, **2018**, 48, 131-146	15.4	9
49	Three-dimensional endoscopic optical coherence tomography imaging of cervical inlet patch. *Gastrointestinal Endoscopy*, **2012**, 75, 675-7; discussion 677	5.2	9
48	Global Analysis of Macular Choriocapillaris Perfusion in Dry Age-Related Macular Degeneration using Swept-Source Optical Coherence Tomography Angiography **2019**, 60, 4985-4990		9
47	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
46	Retinal Nonperfusion Relationship to Arteries or Veins Observed on Widefield Optical Coherence Tomography Angiography in Diabetic Retinopathy **2019**, 60, 4310-4318		8
45	Location of the Central Retinal Vessel Trunk in the Laminar and Prelaminar Tissue of Healthy and Glaucomatous Eyes. *Scientific Reports*, **2017**, 7, 9930	4.9	8
44	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
43	Decreased Lamina Cribrosa Beam Thickness and Pore Diameter Relative to Distance From the Central Retinal Vessel Trunk **2016**, 57, 3088-92		8
42	Comparison of nonlinear microscopy and frozen section histology for imaging of Mohs surgical margins. *Biomedical Optics Express*, **2019**, 10, 4249-4260	3.5	7
41	Nonlinear microscopy for detection of prostate cancer: analysis of sensitivity and specificity in radical prostatectomies. *Modern Pathology*, **2020**, 33, 916-923	9.8	7

40	Deliberations of an International Panel of Experts on OCT Angiography Nomenclature of Neovascular Age-Related Macular Degeneration. *Ophthalmology*, **2021**, 128, 1109-1112	7.3	7
39	Assessment of chronic radiation proctopathy and radiofrequency ablation treatment follow-up with optical coherence tomography angiography: A pilot study. *World Journal of Gastroenterology*, **2019**, 25, 1997-2009	5.6	6
38	Tethered capsule en face optical coherence tomography for imaging Barrett's oesophagus in unsedated patients. *BMJ Open Gastroenterology*, **2020**, 7,	3.9	6
37	Geometric Perfusion Deficits: A Novel OCT Angiography Biomarker for Diabetic Retinopathy Based on Oxygen Diffusion. *American Journal of Ophthalmology*, **2021**, 222, 256-270	4.9	6
36	Retinal Optical Coherence Tomography Imaging **2015**, 1685-1735		5
35	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
34	Local Geographic Atrophy Growth Rates Not Influenced by Close Proximity to Non-Exudative Type 1 Macular Neovascularization. **2022**, 63, 20		4
33	Correction of circumferential and longitudinal motion distortion in high-speed catheter/endoscope-based optical coherence tomography. *Biomedical Optics Express*, **2021**, 12, 226-246	3.5	4
32	The long-term effects of anti-vascular endothelial growth factor therapy on the optical coherence tomography angiographic appearance of neovascularization in age-related macular degeneration. *International Journal of Retina and Vitreous*, **2020**, 6, 39	2.9	4
31	Computer-Aided Analysis of Gland-Like Subsurface Hyposcattering Structures in Barrett Esophagus Using Optical Coherence Tomography. *Applied Sciences (Switzerland)*, **2018**, 8, 2420	2.6	4
30	High-speed frequency swept light source for Fourier domain OCT at 20 kHz A-scan rate **2005**,		3
29	Developing a potential retinal OCT biomarker for local growth of geographic atrophy. *Biomedical Optics Express*, **2020**, 11, 5181-5196	3.5	3
28	Efficient and high accuracy 3-D OCT angiography motion correction in pathology. *Biomedical Optics Express*, **2021**, 12, 125-146	3.5	3
27	Functional imaging of human retina using integrated multispectral and laser speckle contrast imaging. *Journal of Biophotonics*, **2021**, e202100285	3.1	3
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