

# Stephen A Boppart

## List of Publications by Year in descending order

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515  
papers

20,836  
citations

9264

74  
h-index

14759

127  
g-index

528  
all docs

528  
docs citations

528  
times ranked

13430  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vivo Endoscopic Optical Biopsy with Optical Coherence Tomography. <i>Science</i> , 1997, 276, 2037-2039.	12.6	1,365
2	Optical biopsy and imaging using optical coherence tomography. <i>Nature Medicine</i> , 1995, 1, 970-972.	30.7	844
3	Optical Coherence Tomography: An Emerging Technology for Biomedical Imaging and Optical Biopsy. <i>Neoplasia</i> , 2000, 2, 9-25.	5.3	817
4	Optical coherence tomography: a review of clinical development from bench to bedside. <i>Journal of Biomedical Optics</i> , 2007, 12, 051403.	2.6	440
5	Biomechanical Properties of <i>In Vivo</i> Human Skin From Dynamic Optical Coherence Elastography. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 953-959.	4.2	369
6	Interferometric synthetic aperture microscopy. <i>Nature Physics</i> , 2007, 3, 129-134.	16.7	360
7	Intraoperative Evaluation of Breast Tumor Margins with Optical Coherence Tomography. <i>Cancer Research</i> , 2009, 69, 8790-8796.	0.9	346
8	High-resolution optical coherence tomographic imaging using a mode-locked Ti:Al <sub>2</sub> O <sub>3</sub> laser source. <i>Optics Letters</i> , 1995, 20, 1486.	3.3	315
9	In vivo cellular optical coherence tomography imaging. <i>Nature Medicine</i> , 1998, 4, 861-865.	30.7	285
10	Selective in vivo metabolic cell-labeling-mediated cancer targeting. <i>Nature Chemical Biology</i> , 2017, 13, 415-424.	8.0	274
11	Multimodal Biomedical Imaging with Asymmetric Single-Walled Carbon Nanotube/Iron Oxide Nanoparticle Complexes. <i>Nano Letters</i> , 2007, 7, 861-867.	9.1	268
12	Optical Coherence Tomography: Advanced Technology for the Endoscopic Imaging of Barrett's Esophagus. <i>Endoscopy</i> , 2000, 32, 921-930.	1.8	253
13	Engineered microsphere contrast agents for optical coherence tomography. <i>Optics Letters</i> , 2003, 28, 1546.	3.3	234
14	Optical Coherence Tomography: Feasibility for Basic Research and Image-guided Surgery of Breast Cancer. <i>Breast Cancer Research and Treatment</i> , 2004, 84, 85-97.	2.5	227
15	Noninvasive assessment of the developing <i>Xenopus</i> cardiovascular system using optical coherence tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 4256-4261.	7.1	225
16	Computational adaptive optics for broadband optical interferometric tomography of biological tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7175-7180.	7.1	179
17	Intravital imaging by simultaneous label-free autofluorescence-multiharmonic microscopy. <i>Nature Communications</i> , 2018, 9, 2125.	12.8	178
18	Stain-free histopathology by programmable supercontinuum pulses. <i>Nature Photonics</i> , 2016, 10, 534-540.	31.4	177

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19	Magnetomotive contrast for in vivo optical coherence tomography. Optics Express, 2005, 13, 6597.	3.4	172
20	In vivo three-dimensional optical coherence elastography. Optics Express, 2011, 19, 6623.	3.4	167
21	Plasmon-resonant gold nanorods as low backscattering albedo contrast agents for optical coherence tomography. Optics Express, 2006, 14, 6724.	3.4	166
22	Investigation of Developing Embryonic Morphology Using Optical Coherence Tomography. Developmental Biology, 1996, 177, 54-63.	2.0	162
23	Imaging of coronary artery microstructure (in vitro) with optical coherence tomography. American Journal of Cardiology, 1996, 77, 92-93.	1.6	156
24	Feasibility of optical coherence tomography for high-resolution imaging of human gastrointestinal tract malignancies. Journal of Gastroenterology, 2000, 35, 87-92.	5.1	154
25	Assessment of coronary plaque with optical coherence tomography and high-frequency ultrasound. American Journal of Cardiology, 2000, 85, 641-644.	1.6	151
26	Near-infrared dyes as contrast-enhancing agents for spectroscopic optical coherence tomography. Optics Letters, 2004, 29, 1647.	3.3	148
27	Fourier Transform Light Scattering of Inhomogeneous and Dynamic Structures. Physical Review Letters, 2008, 101, 238102.	7.8	137
28	High-Resolution Optical Coherence Tomography-Guided Laser Ablation of Surgical Tissue. Journal of Surgical Research, 1999, 82, 275-284.	1.6	136
29	Handheld Optical Coherence Tomography Scanner for Primary Care Diagnostics. IEEE Transactions on Biomedical Engineering, 2011, 58, 741-744.	4.2	130
30	Study of an ultrahigh-numerical-aperture fiber continuum generation source for optical coherence tomography. Optics Letters, 2002, 27, 2010.	3.3	129
31	Intraoperative assessment of microsurgery with three-dimensional optical coherence tomography.. Radiology, 1998, 208, 81-86.	7.3	127
32	Optical micro-scale mapping of dynamic biomechanical tissue properties. Optics Express, 2008, 16, 11052.	3.4	127
33	Optical Coherence Tomography for Neurosurgical Imaging of Human Intracortical Melanoma. Neurosurgery, 1998, 43, 834-841.	1.1	126
34	Optical Coherence Elastography of Engineered and Developing Tissue. Tissue Engineering, 2006, 12, 63-73.	4.6	126
35	Optical probes and techniques for molecular contrast enhancement in coherence imaging. Journal of Biomedical Optics, 2005, 10, 041208.	2.6	125
36	Computational high-resolution optical imaging of the living human retina. Nature Photonics, 2015, 9, 440-443.	31.4	123

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37	Imaging magnetically labeled cells with magnetomotive optical coherence tomography. Optics Letters, 2005, 30, 747.	3.3	121
38	A first-order model for computation of laser-induced breakdown thresholds in ocular and aqueous media. II. Comparison to experiment. IEEE Journal of Quantum Electronics, 1995, 31, 2250-2257.	1.9	119
39	Optical Biopsy with Optical Coherence Tomography: Feasibility for Surgical Diagnostics. Journal of Surgical Research, 1997, 71, 32-40.	1.6	119
40	Nonlinear Interferometric Vibrational Imaging. Physical Review Letters, 2004, 92, 123905.	7.8	118
41	Tumor Targeting by Surface-Modified Protein Microspheres. Journal of the American Chemical Society, 2006, 128, 3472-3473.	13.7	118
42	Real-time Imaging of the Resection Bed Using a Handheld Probe to Reduce Incidence of Microscopic Positive Margins in Cancer Surgery. Cancer Research, 2015, 75, 3706-3712.	0.9	115
43	Microscopic Imaging and Spectroscopy with Scattered Light. Annual Review of Biomedical Engineering, 2010, 12, 285-314.	12.3	114
44	In vivo magnetomotive optical molecular imaging using targeted magnetic nanoprobes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8085-8090.	7.1	113
45	Inverse scattering for optical coherence tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1027.	1.5	112
46	A flexible perforated microelectrode array for extended neural recordings. IEEE Transactions on Biomedical Engineering, 1992, 39, 37-42.	4.2	109
47	Noninvasive in vivo optical detection of biofilm in the human middle ear. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9529-9534.	7.1	109
48	Coherent fiber supercontinuum for biophotonics. Laser and Photonics Reviews, 2013, 7, 628-645.	8.7	107
49	HIGH-RESOLUTION IMAGING OF GYNECOLOGIC NEOPLASMS USING OPTICAL COHERENCE TOMOGRAPHY. Obstetrics and Gynecology, 1999, 93, 135-139.	2.4	105
50	Spectroscopic spectral-domain optical coherence microscopy. Optics Letters, 2006, 31, 1079.	3.3	104
51	Review of optical coherence tomography in oncology. Journal of Biomedical Optics, 2017, 22, 1.	2.6	104
52	Phase-resolved magnetomotive OCT for imaging nanomolar concentrations of magnetic nanoparticles in tissues. Optics Express, 2008, 16, 11525.	3.4	101
53	Magnetomotive nanoparticle transducers for optical rheology of viscoelastic materials. Optics Express, 2009, 17, 23114.	3.4	100
54	Computational methods for analysis of human breast tumor tissue in optical coherence tomography images. Journal of Biomedical Optics, 2006, 11, 054015.	2.6	99

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55	High-resolution three-dimensional imaging of biofilm development using optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2006, 11, 034001.	2.6	97
56	Catheter-Based Optical Imaging of a Human Coronary Artery. <i>Circulation</i> , 1996, 94, 3013-3013.	1.6	97
57	Intraoperative Assessment of Final Margins with a Handheld Optical Imaging Probe During Breast-Conserving Surgery May Reduce the Reoperation Rate: Results of a Multicenter Study. <i>Annals of Surgical Oncology</i> , 2015, 22, 3356-3362.	1.5	96
58	Nonlinear optical contrast enhancement for optical coherence tomography. <i>Optics Express</i> , 2004, 12, 331.	3.4	95
59	Imaging developing neural morphology using optical coherence tomography. <i>Journal of Neuroscience Methods</i> , 1996, 70, 65-72.	2.5	92
60	Role of Biofilm Roughness and Hydrodynamic Conditions in <i>Legionella pneumophila</i> Adhesion to and Detachment from Simulated Drinking Water Biofilms. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4274-4282.	10.0	91
61	Wavelength-dependent scattering in spectroscopic optical coherence tomography. <i>Optics Express</i> , 2005, 13, 5450.	3.4	90
62	Functional optical coherence tomography for detecting neural activity through scattering changes. <i>Optics Letters</i> , 2003, 28, 1218.	3.3	88
63	Optical coherence tomography of cell dynamics in three-dimensional tissue models. <i>Optics Express</i> , 2006, 14, 7159.	3.4	86
64	Roles of ionic strength and biofilm roughness on adhesion kinetics of <i>Escherichia coli</i> onto groundwater biofilm grown on PVC surfaces. <i>Water Research</i> , 2013, 47, 2531-2542.	11.3	86
65	Spectroscopic optical coherence elastography. <i>Optics Express</i> , 2010, 18, 25519.	3.4	83
66	Imaging gold nanorods in excised human breast carcinoma by spectroscopic optical coherence tomography. <i>Journal of Materials Chemistry</i> , 2009, 19, 6407.	6.7	82
67	Imaging and Analysis of Three-Dimensional Cell Culture Models. <i>Methods in Molecular Biology</i> , 2010, 591, 211-227.	0.9	82
68	In vivo detection of exercised-induced ultrastructural changes in genetically-altered murine skeletal muscle using polarization-sensitive optical coherence tomography. <i>Optics Express</i> , 2006, 14, 1547.	3.4	81
69	Real-time in vivo computed optical interferometric tomography. <i>Nature Photonics</i> , 2013, 7, 444-448.	31.4	81
70	Optical coherence tomography: Technology and applications for neuroimaging. <i>Psychophysiology</i> , 2003, 40, 529-541.	2.4	80
71	New Technology for High-Speed and High-Resolution Optical Coherence Tomography. <i>Annals of the New York Academy of Sciences</i> , 1998, 838, 95-107.	3.8	79
72	Speckle reduction by I-divergence regularization in optical coherence tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 2366.	1.5	79

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73	Digital algorithm for dispersion correction in optical coherence tomography for homogeneous and stratified media. <i>Applied Optics</i> , 2003, 42, 204.	2.1	78
74	Optical Biopsy of Lymph Node Morphology using Optical Coherence Tomography. <i>Technology in Cancer Research and Treatment</i> , 2005, 4, 539-547.	1.9	76
75	Point-of-care and point-of-procedure optical imaging technologies for primary care and global health. <i>Science Translational Medicine</i> , 2014, 6, 253rv2.	12.4	76
76	Argon Laser Retinal Lesions Evaluated In Vivo by Optical Coherence Tomography. <i>American Journal of Ophthalmology</i> , 1997, 123, 188-198.	3.3	75
77	Optical Coherence Tomography: The Intraoperative Assessment of Lymph Nodes in Breast Cancer. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2010, 29, 63-70.	0.8	75
78	Structural and functional imaging of 3D microfluidic mixers using optical coherence tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7516-7521.	7.1	74
79	Intraoperative visualization of the tumor microenvironment and quantification of extracellular vesicles by label-free nonlinear imaging. <i>Science Advances</i> , 2018, 4, eaau5603.	10.3	72
80	Separation of absorption and scattering profiles in spectroscopic optical coherence tomography using a least-squares algorithm. <i>Optics Express</i> , 2004, 12, 4790.	3.4	71
81	Spectroscopic Optical Coherence Tomography and Microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 1629-1640.	2.9	71
82	Characterization and Analysis of Relative Intensity Noise in Broadband Optical Sources for Optical Coherence Tomography. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1057-1059.	2.5	71
83	Refractive index of carcinogen-induced rat mammary tumours. <i>Physics in Medicine and Biology</i> , 2006, 51, 2165-2177.	3.0	70
84	Three-dimensional optical coherence tomography of the embryonic murine cardiovascular system. <i>Journal of Biomedical Optics</i> , 2006, 11, 021014.	2.6	70
85	Phase-resolved magnetomotive OCT for imaging nanomolar concentrations of magnetic nanoparticles in tissues. <i>Optics Express</i> , 2008, 16, 11525-39.	3.4	70
86	Integrated structural and functional optical imaging combining spectral-domain optical coherence and multiphoton microscopy. <i>Applied Physics Letters</i> , 2006, 88, 053901.	3.3	69
87	Real-time interferometric synthetic aperture microscopy. <i>Optics Express</i> , 2008, 16, 2555.	3.4	69
88	Dynamic spectral-domain optical coherence elastography for tissue characterization. <i>Optics Express</i> , 2010, 18, 14183.	3.4	69
89	Noninvasive depth-resolved optical measurements of the tympanic membrane and middle ear for differentiating otitis media. <i>Laryngoscope</i> , 2015, 125, E276-82.	2.0	69
90	Optical properties of tissues quantified by Fourier-transform light scattering. <i>Optics Letters</i> , 2009, 34, 1372.	3.3	68

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91	Autofocus algorithm for dispersion correction in optical coherence tomography. <i>Applied Optics</i> , 2003, 42, 3038.	2.1	67
92	Use of DNA and Peptide Nucleic Acid Molecular Beacons for Detection and Quantification of rRNA in Solution and in Whole Cells. <i>Applied and Environmental Microbiology</i> , 2003, 69, 5673-5678.	3.1	66
93	Response of Simulated Drinking Water Biofilm Mechanical and Structural Properties to Long-Term Disinfectant Exposure. <i>Environmental Science &amp; Technology</i> , 2016, 50, 1779-1787.	10.0	66
94	Imaging engineered tissues using structural and functional optical coherence tomography. <i>Journal of Biophotonics</i> , 2009, 2, 643-655.	2.3	65
95	Tailoring Hydrogel Adhesion to Polydimethylsiloxane Substrates Using Polysaccharide Glue. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6949-6952.	13.8	65
96	Optical biopsy in human pancreatobiliary tissue using optical coherence tomography. <i>Digestive Diseases and Sciences</i> , 1998, 43, 1193-1199.	2.3	64
97	Optical frequency up-conversion by supercontinuum-free widely-tunable fiber-optic Cherenkov radiation. <i>Optics Express</i> , 2009, 17, 9858.	3.4	63
98	Resonant acoustic spectroscopy of soft tissues using embedded magnetomotive nanotransducers and optical coherence tomography. <i>Physics in Medicine and Biology</i> , 2010, 55, 1189-1201.	3.0	63
99	Full-range k-domain linearization in spectral-domain optical coherence tomography. <i>Applied Optics</i> , 2011, 50, 1158.	2.1	63
100	Differentiation of ex vivo human breast tissue using polarization-sensitive optical coherence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 3417.	2.9	63
101	Deconvolution methods for mitigation of transverse blurring in optical coherence tomography. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1254-1264.	9.8	61
102	Optical coherence tomography for advanced screening in the primary care office. <i>Journal of Biophotonics</i> , 2014, 7, 525-533.	2.3	61
103	Structural and Functional Optical Imaging of Three-Dimensional Engineered Tissue Development. <i>Tissue Engineering</i> , 2004, 10, 1747-1756.	4.6	60
104	Large-scale tumor-associated collagen signatures identify high-risk breast cancer patients. <i>Theranostics</i> , 2021, 11, 3229-3243.	10.0	60
105	Inverse scattering for frequency-scanned full-field optical coherence tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1034.	1.5	58
106	Wave-breaking-extended fiber supercontinuum generation for high compression ratio transform-limited pulse compression. <i>Optics Letters</i> , 2012, 37, 2172.	3.3	58
107	Label-free visualization and characterization of extracellular vesicles in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24012-24018.	7.1	58
108	Acoustomotive optical coherence elastography for measuring material mechanical properties. <i>Optics Letters</i> , 2009, 34, 2894.	3.3	56

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109	DYNAMIC OPTICAL COHERENCE ELASTOGRAPHY: A REVIEW. <i>Journal of Innovative Optical Health Sciences</i> , 2010, 03, 221-233.	1.0	56
110	Projected index computed tomography. <i>Optics Letters</i> , 2003, 28, 701.	3.3	54
111	Interferometric differentiation between resonant coherent anti-Stokes Raman scattering and nonresonant four-wave-mixing processes. <i>Applied Physics Letters</i> , 2004, 85, 5787-5789.	3.3	53
112	Inverse scattering for high-resolution interferometric microscopy. <i>Optics Letters</i> , 2006, 31, 3585.	3.3	52
113	Nonparaxial vector-field modeling of optical coherence tomography and interferometric synthetic aperture microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 2527.	1.5	52
114	Optical imaging technology in minimally invasive surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 1999, 13, 718-722.	2.4	51
115	Non-invasive, real-time reporting drug release in vitro and in vivo. <i>Chemical Communications</i> , 2015, 51, 6948-6951.	4.1	51
116	Computational optical coherence tomography [Invited]. <i>Biomedical Optics Express</i> , 2017, 8, 1549.	2.9	51
117	Non-invasive optical interferometry for the assessment of biofilm growth in the middle ear. <i>Biomedical Optics Express</i> , 2010, 1, 1104.	2.9	50
118	Investigation of bacterial biofilm in the human middle ear using optical coherence tomography and acoustic measurements. <i>Hearing Research</i> , 2013, 301, 193-200.	2.0	50
119	High resolution imaging of endometriosis and ovarian carcinoma with optical coherence tomography: feasibility for laparoscopic-based imaging. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 1999, 106, 1071-1077.	2.3	49
120	Comparative performance analysis of time-frequency distributions for spectroscopic optical coherence tomography. <i>Applied Optics</i> , 2005, 44, 1813.	2.1	49
121	Nonlinear polarization dynamics in a weakly birefringent all-normal dispersion photonic crystal fiber: toward a practical coherent fiber supercontinuum laser. <i>Optics Express</i> , 2012, 20, 1113.	3.4	49
122	Targeted Multifunctional Multimodal Protein-Shell Microspheres as Cancer Imaging Contrast Agents. <i>Molecular Imaging and Biology</i> , 2012, 14, 17-24.	2.6	49
123	Computed optical interferometric tomography for high-speed volumetric cellular imaging. <i>Biomedical Optics Express</i> , 2014, 5, 2988.	2.9	49
124	Suppressing Short-Term Polarization Noise and Related Spectral Decoherence in All-Normal Dispersion Fiber Supercontinuum Generation. <i>Journal of Lightwave Technology</i> , 2015, 33, 1814-1820.	4.6	48
125	Intraoperative optical coherence tomography for assessing human lymph nodes for metastatic cancer. <i>BMC Cancer</i> , 2016, 16, 144.	2.6	48
126	Molecular Histopathology by Spectrally Reconstructed Nonlinear Interferometric Vibrational Imaging. <i>Cancer Research</i> , 2010, 70, 9562-9569.	0.9	47



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127	Magnetomotive optical coherence elastography for microrheology of biological tissues. <i>Journal of Biomedical Optics</i> , 2013, 18, 121504.	2.6	47
128	Two- and three-dimensional high-resolution imaging of the human oviduct with optical coherence tomography. <i>Fertility and Sterility</i> , 1998, 70, 155-158.	1.0	46
129	Molecularly sensitive optical coherence tomography. <i>Optics Letters</i> , 2005, 30, 495.	3.3	46
130	Needle-based refractive index measurement using low-coherence interferometry. <i>Optics Letters</i> , 2007, 32, 385.	3.3	46
131	Measuring the scattering parameters of tissues from quantitative phase imaging of thin slices. <i>Optics Letters</i> , 2011, 36, 2281.	3.3	46
132	Real-time three-dimensional optical coherence tomography image-guided core-needle biopsy system. <i>Biomedical Optics Express</i> , 2012, 3, 1149.	2.9	46
133	Clinical translation of handheld optical coherence tomography: practical considerations and recent advancements. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	46
134	Numerical analysis of gradient index lens-based optical coherence tomography imaging probes. <i>Journal of Biomedical Optics</i> , 2010, 15, 066027.	2.6	45
135	Detecting intrinsic scattering changes correlated to neuron action potentials using optical coherence imaging. <i>Optics Express</i> , 2009, 17, 13447.	3.4	44
136	Optical Biopsy with Optical Coherence Tomography. <i>Annals of the New York Academy of Sciences</i> , 1998, 838, 68-74.	3.8	43
137	Real-Time Optical Coherence Tomography for Minimally Invasive Imaging of Prostate Ablation. <i>Computer Aided Surgery</i> , 2001, 6, 94-103.	1.8	43
138	Cross-correlation-based image acquisition technique for manually-scanned optical coherence tomography. <i>Optics Express</i> , 2009, 17, 8125.	3.4	43
139	Noninvasive optical assessment of viscosity of middle ear effusions in otitis media. <i>Journal of Biophotonics</i> , 2017, 10, 394-403.	2.3	43
140	High-speed imaging of transient metabolic dynamics using two-photon fluorescence lifetime imaging microscopy. <i>Optica</i> , 2018, 5, 1290.	9.3	43
141	Nonlinear Interferometric Vibrational Imaging and Spectroscopy. , 2014, , 273-294.		43
142	Coherent anti-Stokes Raman scattering microscopy: overcoming technical barriers for clinical translation. <i>Journal of Biophotonics</i> , 2014, 7, 9-22.	2.3	42
143	Interferometric Synthetic Aperture Microscopy: Computed Imaging for Scanned Coherent Microscopy. <i>Sensors</i> , 2008, 8, 3903-3931.	3.8	41
144	Magnetomotive optical coherence elastography using magnetic particles to induce mechanical waves. <i>Biomedical Optics Express</i> , 2014, 5, 2349.	2.9	41

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145	Digital staining through the application of deep neural networks to multi-modal multi-photon microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 1339.	2.9	41
146	Fast-Fourier-domain delay line for in vivo optical coherence tomography with a polygonal scanner. <i>Applied Optics</i> , 2003, 42, 4606.	2.1	40
147	Multimodal In Vivo Skin Imaging with Integrated Optical Coherence and Multiphoton Microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1280-1286.	2.9	40
148	Guide-star-based computational adaptive optics for broadband interferometric tomography. <i>Applied Physics Letters</i> , 2012, 101, 221117.	3.3	39
149	Concurrence of extracellular vesicle enrichment and metabolic switch visualized label-free in the tumor microenvironment. <i>Science Advances</i> , 2017, 3, e1600675.	10.3	39
150	Integrated multimodal optical microscopy for structural and functional imaging of engineered and natural skin. <i>Journal of Biophotonics</i> , 2012, 5, 437-448.	2.3	37
151	Three-dimensional motion correction using speckle and phase for in vivo computed optical interferometric tomography. <i>Biomedical Optics Express</i> , 2014, 5, 4131.	2.9	37
152	Stability in computed optical interferometric tomography (Part I): Stability requirements. <i>Optics Express</i> , 2014, 22, 19183.	3.4	37
153	Noninvasive in vivo optical coherence tomography tracking of chronic otitis media in pediatric subjects after surgical intervention. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	37
154	All-fiber femtosecond Cherenkov radiation source. <i>Optics Letters</i> , 2012, 37, 2769.	3.3	36
155	Multimodal Nonlinear Microscopy by Shaping a Fiber Supercontinuum From 900 to 1160 nm. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1209-1214.	2.9	36
156	Real-time automated thickness measurement of the in vivo human tympanic membrane using optical coherence tomography. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 69-77.	2.0	36
157	Clinical Feasibility of Microscopically-Guided Breast Needle Biopsy Using a Fiber-Optic Probe with Computer-Aided Detection. <i>Technology in Cancer Research and Treatment</i> , 2009, 8, 315-321.	1.9	35
158	Effect of divalent ions and a polyphosphate on composition, structure, and stiffness of simulated drinking water biofilms. <i>Npj Biofilms and Microbiomes</i> , 2018, 4, 15.	6.4	33
159	Real-Time Digital Signal Processing-Based Optical Coherence Tomography and Doppler Optical Coherence Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 186-190.	4.2	32
160	Three-dimensional Optical Coherence Tomography for Optical Biopsy of Lymph Nodes and Assessment of Metastatic Disease. <i>Annals of Surgical Oncology</i> , 2013, 20, 3685-3693.	1.5	32
161	High-spectral-resolution coherent anti-Stokes Raman scattering with interferometrically detected broadband chirped pulses. <i>Optics Letters</i> , 2006, 31, 1543.	3.3	31
162	Quantitative FRET Imaging to Visualize the Invasiveness of Live Breast Cancer Cells. <i>PLoS ONE</i> , 2013, 8, e58569.	2.5	31

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163	Raman Spectroscopic Analysis Reveals Abnormal Fatty Acid Composition in Tumor Micro- and Macroenvironments in Human Breast and Rat Mammary Cancer. <i>Scientific Reports</i> , 2016, 6, 32922.	3.3	31
164	High Speed Nonlinear Interferometric Vibrational Analysis of Lipids by Spectral Decomposition. <i>Analytical Chemistry</i> , 2010, 82, 3812-3818.	6.5	30
165	Correction of coherence gate curvature in high numerical aperture optical coherence imaging. <i>Optics Letters</i> , 2010, 35, 3120.	3.3	30
166	A Mosaicking Approach for In Vivo Thickness Mapping of the Human Tympanic Membrane Using Low Coherence Interferometry. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2016, 17, 403-416.	1.8	30
167	Automated classification platform for the identification of otitis media using optical coherence tomography. <i>Npj Digital Medicine</i> , 2019, 2, 22.	10.9	30
168	Label-free optical imaging technologies for rapid translation and use during intraoperative surgical and tumor margin assessment. <i>Journal of Biomedical Optics</i> , 2017, 23, 1.	2.6	30
169	Cross-validation of interferometric synthetic aperture microscopy and optical coherence tomography. <i>Optics Letters</i> , 2010, 35, 1683.	3.3	29
170	Broadband nonlinear vibrational spectroscopy by shaping a coherent fiber supercontinuum. <i>Optics Express</i> , 2013, 21, 8269.	3.4	29
171	Label-free <i>in vivo</i> cellular-level detection and imaging of apoptosis. <i>Journal of Biophotonics</i> , 2017, 10, 143-150.	2.3	29
172	Real-time intraoperative diagnosis by deep neural network driven multiphoton virtual histology. <i>Npj Precision Oncology</i> , 2019, 3, 33.	5.4	29
173	Slide-free virtual histochemistry (Part I): development via nonlinear optics. <i>Biomedical Optics Express</i> , 2018, 9, 5240.	2.9	29
174	Complementary use of polarization-sensitive and standard OCT metrics for enhanced intraoperative differentiation of breast cancer. <i>Biomedical Optics Express</i> , 2018, 9, 6519.	2.9	29
175	Scalar generalized nonlinear Schrödinger equation-quantified continuum generation in an all-normal dispersion photonic crystal fiber for broadband coherent optical sources. <i>Optics Express</i> , 2010, 18, 27872.	3.4	28
176	Autocorrelation artifacts in optical coherence tomography and interferometric synthetic aperture microscopy. <i>Optics Letters</i> , 2007, 32, 1441.	3.3	27
177	Progress in Cherenkov femtosecond fiber lasers. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 023001.	2.8	27
178	In vivo detection of nanometer-scale structural changes of the human tympanic membrane in otitis media. <i>Scientific Reports</i> , 2018, 8, 8777.	3.3	27
179	Slide-free virtual histochemistry (Part II): detection of field cancerization. <i>Biomedical Optics Express</i> , 2018, 9, 5253.	2.9	27
180	Needle-based reflection refractometry of scattering samples using coherence-gated detection. <i>Optics Express</i> , 2007, 15, 4787.	3.4	26

#	ARTICLE	IF	CITATIONS
181	Imaging cellular responses to mechanical stimuli within three-dimensional tissue constructs. <i>Microscopy Research and Technique</i> , 2007, 70, 361-371.	2.2	26
182	Intraoperative optical coherence tomography for soft tissue sarcoma differentiation and margin identification. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 240-248.	2.1	26
183	Emergency ventilator for COVID-19. <i>PLoS ONE</i> , 2020, 15, e0244963.	2.5	26
184	Bright broadband coherent fiber sources emitting strongly blue-shifted resonant dispersive wave pulses. <i>Optics Express</i> , 2013, 21, 23188.	3.4	25
185	Direct Analysis of Pathogenic Structures Affixed to the Tympanic Membrane during Chronic Otitis Media. <i>Otolaryngology - Head and Neck Surgery</i> , 2018, 159, 117-126.	1.9	25
186	Tracking metabolic dynamics of apoptosis with high-speed two-photon fluorescence lifetime imaging microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 6408.	2.9	25
187	Novel method for non-invasive induction of a middle-ear biofilm in the rat. <i>Vaccine</i> , 2011, 29, 1628-1633.	3.8	24
188	In Vivo Multiphoton Microscopy for Investigating Biomechanical Properties of Human Skin. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 231-238.	2.1	24
189	Low-cost hand-held probe for depth-resolved low-coherence interferometry. <i>Biomedical Optics Express</i> , 2017, 8, 338.	2.9	23
190	Fourier Transform Light Scattering (FTLS) of Cells and Tissues. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 2501-2511.	0.4	22
191	Lymphatic Biodistribution of Polylactide Nanoparticles. <i>Molecular Imaging</i> , 2010, 9, 7290.2010.00012.	1.4	22
192	Stability in computed optical interferometric tomography (Part II): in vivo stability assessment. <i>Optics Express</i> , 2014, 22, 19314.	3.4	22
193	Automated computational aberration correction method for broadband interferometric imaging techniques. <i>Optics Letters</i> , 2016, 41, 3324.	3.3	22
194	Differentiation of breast tissue types for surgical margin assessment using machine learning and polarization-sensitive optical coherence tomography. <i>Biomedical Optics Express</i> , 2021, 12, 3021.	2.9	22
195	Biophotonics: the big picture. <i>Journal of Biomedical Optics</i> , 2017, 23, 1.	2.6	22
196	Intermodal four-wave mixing from femtosecond pulse-pumped photonic crystal fiber. <i>Applied Physics Letters</i> , 2009, 94, 101109.	3.3	21
197	Partially coherent illumination in full-field interferometric synthetic aperture microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 376.	1.5	21
198	Magnetomotive Molecular Nanoprobes. <i>Current Medicinal Chemistry</i> , 2011, 18, 2103-2114.	2.4	21

#	ARTICLE	IF	CITATIONS
199	Detection of retinal blood vessel changes in multiple sclerosis with optical coherence tomography. <i>Biomedical Optics Express</i> , 2016, 7, 2321.	2.9	21
200	Otitis Media Middle Ear Effusion Identification and Characterization Using an Optical Coherence Tomography Otoscope. <i>Otolaryngology - Head and Neck Surgery</i> , 2020, 162, 367-374.	1.9	21
201	Fc-DIRECTED ANTIBODY CONJUGATION OF MAGNETIC NANOPARTICLES FOR ENHANCED MOLECULAR TARGETING. <i>Journal of Innovative Optical Health Sciences</i> , 2009, 02, 387-396.	1.0	20
202	Compression of fiber supercontinuum pulses to the Fourier-limit in a high-numerical-aperture focus. <i>Optics Letters</i> , 2011, 36, 2315.	3.3	20
203	Long-term time-lapse multimodal intravital imaging of regeneration and bone-marrow-derived cell dynamics in skin. <i>Technology</i> , 2013, 01, 8-19.	1.4	20
204	Simultaneous label-free autofluorescence-multiharmonic microscopy and beyond. <i>APL Photonics</i> , 2019, 4, .	5.7	20
205	Simultaneous label-free autofluorescence and multi-harmonic imaging reveals in vivo structural and metabolic changes in murine skin. <i>Biomedical Optics Express</i> , 2019, 10, 5431.	2.9	20
206	Optical Coherence Tomography Imaging in Developmental Biology. , 2000, 135, 217-233.		19
207	Inverse scattering for rotationally scanned optical coherence tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2433.	1.5	19
208	Ultraviolet-visible non-supercontinuum ultrafast source enabled by switching single silicon strand-like photonic crystal fibers. <i>Optics Express</i> , 2009, 17, 17983.	3.4	19
209	Dynamics of Magnetic Nanoparticle-Based Contrast Agents in Tissues Tracked Using Magnetomotive Optical Coherence Tomography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 691-697.	2.9	19
210	Longitudinal label-free tracking of cell death dynamics in living engineered human skin tissue with a multimodal microscope. <i>Biomedical Optics Express</i> , 2014, 5, 3699.	2.9	19
211	High Resolution Phase-Sensitive Magnetomotive Optical Coherence Microscopy for Tracking Magnetic Microbeads and Cellular Mechanics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 25-31.	2.9	19
212	Effect of recombinant interleukin-12 on murine skin regeneration and cell dynamics using in vivo multimodal microscopy. <i>Biomedical Optics Express</i> , 2015, 6, 4277.	2.9	19
213	Coherent control of an opsin in living brain tissue. <i>Nature Physics</i> , 2017, 13, 1111-1116.	16.7	19
214	Assessing the Effect of Middle Ear Effusions on Wideband Acoustic Immittance Using Optical Coherence Tomography. <i>Ear and Hearing</i> , 2020, 41, 811-824.	2.1	19
215	High-Speed Nonlinear Interferometric Vibrational Imaging of Biological Tissue With Comparison to Raman Microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 824-832.	2.9	18
216	Magnetomotive Optical Coherence Elastography for Magnetic Hyperthermia Dosimetry Based on Dynamic Tissue Biomechanics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 104-119.	2.9	18

#	ARTICLE	IF	CITATIONS
217	Nonlinearity-tailored fiber laser technology for low-noise, ultra-wideband tunable femtosecond light generation. <i>Photonics Research</i> , 2017, 5, 750.	7.0	18
218	Dynamic Signatures of Lipid Droplets as New Markers to Quantify Cellular Metabolic Changes. <i>Analytical Chemistry</i> , 2020, 92, 15943-15952.	6.5	18
219	Label-free characterization of single extracellular vesicles using two-photon fluorescence lifetime imaging microscopy of NAD(P)H. <i>Scientific Reports</i> , 2021, 11, 3308.	3.3	18
220	Scanning single-mode fiber optic catheterâ€“endoscope for optical coherence tomography: erratum. <i>Optics Letters</i> , 1996, 21, 912.	3.3	17
221	Stabilization of continuum generation from normally dispersive nonlinear optical fibers for a tunable broad bandwidth source for optical coherence tomography. <i>Optics Letters</i> , 2007, 32, 2037.	3.3	17
222	Quantitative Pneumatic Otoscopy Using a Light-Based Ranging Technique. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2017, 18, 555-568.	1.8	17
223	Biomechanical sensing of <i>in vivo</i> magnetic nanoparticle hyperthermia-treated melanoma using magnetomotive optical coherence elastography. <i>Theranostics</i> , 2021, 11, 5620-5633.	10.0	17
224	The Cholesterol Metabolite 27HC Increases Secretion of Extracellular Vesicles Which Promote Breast Cancer Progression. <i>Endocrinology</i> , 2021, 162, .	2.8	17
225	Comparison of Optical Coherence Tomography Imaging of Cataracts With Histopathology. <i>Journal of Biomedical Optics</i> , 1999, 4, 450.	2.6	16
226	Dual-spectrum laser source based on fiber continuum generation for integrated optical coherence and multiphoton microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 034019.	2.6	16
227	Enhancement and wavelength-shifted emission of Cerenkov luminescence using multifunctional microspheres. <i>Physics in Medicine and Biology</i> , 2015, 60, 727-739.	3.0	16
228	Sensor-Based Technique for Manually Scanned Hand-Held Optical Coherence Tomography Imaging. <i>Journal of Sensors</i> , 2016, 2016, 1-7.	1.1	16
229	Automated interferometric synthetic aperture microscopy and computational adaptive optics for improved optical coherence tomography. <i>Applied Optics</i> , 2016, 55, 2034.	2.1	16
230	Disintegration of simulated drinking water biofilms with arrays of microchannel plasma jets. <i>Npj Biofilms and Microbiomes</i> , 2018, 4, 24.	6.4	16
231	Combined hardware and computational optical wavefront correction. <i>Biomedical Optics Express</i> , 2018, 9, 2562.	2.9	16
232	Intraoperative imaging of surgical margins of canine soft tissue sarcoma using optical coherence tomography. <i>Veterinary and Comparative Oncology</i> , 2019, 17, 80-88.	1.8	16
233	Economical and compact briefcase spectral-domain optical coherence tomography system for primary care and point-of-care applications. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	16
234	Modern Trends in Imaging V: Optical Coherence Tomography for Rapid Tissue Screening and Directed Histological Sectioning. <i>Analytical Cellular Pathology</i> , 2012, 35, 129-143.	1.4	16

#	ARTICLE	IF	CITATIONS
235	Evaluation of Microfluidic Biosensor Development Using Microscopic Analysis of Molecular Beacon Hybridization Kinetics. <i>Biomedical Microdevices</i> , 2005, 7, 7-12.	2.8	15
236	Sonification of optical coherence tomography data and images. <i>Optics Express</i> , 2010, 18, 9934.	3.4	15
237	Stiffness-Modulated Water Retention and Neovascularization of Dermal Fibroblast-Encapsulating Collagen Gel. <i>Tissue Engineering - Part A</i> , 2013, 19, 1275-1284.	3.1	15
238	<i>In vivo</i> multimodal microscopy for detecting bone-marrow-derived cell contribution to skin regeneration. <i>Journal of Biophotonics</i> , 2014, 7, 96-102.	2.3	15
239	Mechanical contrast in spectroscopic magnetomotive optical coherence elastography. <i>Physics in Medicine and Biology</i> , 2015, 60, 6655-6668.	3.0	15
240	Optical assessment of the <i>in vivo</i> tympanic membrane status using a handheld optical coherence tomography-based otoscope. <i>Acta Oto-Laryngologica</i> , 2018, 138, 367-374.	0.9	15
241	Assessing the severity of psoriasis through multivariate analysis of optical images from non-lesional skin. <i>Scientific Reports</i> , 2020, 10, 9154.	3.3	15
242	<i>In vivo</i> characterization of minipig skin as a model for dermatological research using multiphoton microscopy. <i>Experimental Dermatology</i> , 2020, 29, 953-960.	2.9	15
243	Non-invasive monitoring of pharmacodynamics during the skin wound healing process using multimodal optical microscopy. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e000974.	2.8	15
244	Rapid diagnosis and differentiation of microbial pathogens in otitis media with a combined Raman spectroscopy and low-coherence interferometry probe: toward <i>in vivo</i> implementation. <i>Journal of Biomedical Optics</i> , 2016, 21, 1.	2.6	15
245	<i>In vivo</i> 3D imaging of the human tympanic membrane using a wide-field diagonal-scanning optical coherence tomography probe. <i>Applied Optics</i> , 2017, 56, D115.	2.1	15
246	Depixelation and enhancement of fiber bundle images by bundle rotation. <i>Applied Optics</i> , 2020, 59, 536.	1.8	15
247	Full-field spectral-domain optical interferometry for snapshot three-dimensional microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 5903.	2.9	15
248	Low-Noise Operation of All-Fiber Femtosecond Cherenkov Laser. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 892-895.	2.5	14
249	Imaging and Tracking of Bone Marrow-Derived Immune and Stem Cells. <i>Methods in Molecular Biology</i> , 2013, 1052, 57-76.	0.9	14
250	Investigating the healing mechanisms of an angiogenesis-promoting topical treatment for diabetic wounds using multimodal microscopy. <i>Journal of Biophotonics</i> , 2018, 11, e201700195.	2.3	14
251	Pneumatic low-coherence interferometry otoscope to quantify tympanic membrane mobility and middle ear pressure. <i>Biomedical Optics Express</i> , 2018, 9, 397.	2.9	14
252	Wavefront measurement using computational adaptive optics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 466.	1.5	14

#	ARTICLE	IF	CITATIONS
253	Real-time optical coherence tomography for minimally invasive imaging of prostate ablation. <i>Computer Aided Surgery</i> , 2001, 6, 94-103.	1.8	14
254	Adaptive spectral apodization for sidelobe reduction in optical coherence tomography images. <i>Journal of Biomedical Optics</i> , 2004, 9, 1281.	2.6	13
255	Handheld optical coherence tomography for clinical assessment of dental plaque and gingiva. <i>Journal of Biomedical Optics</i> , 2020, 25, .	2.6	13
256	Characterization of plasmon-resonant gold nanorods as near-infrared optical contrast agents investigated using a double-integrating sphere system. , 2005, , .		13
257	Detection of weak near-infrared optical imaging signals under ambient light by optical parametric amplification. <i>Optics Letters</i> , 2019, 44, 4391.	3.3	13
258	Single-photon peak event detection (SPEED): a computational method for fast photon counting in fluorescence lifetime imaging microscopy. <i>Optics Express</i> , 2021, 29, 37759.	3.4	13
259	Plasmon-resonant gold nanorods provide spectroscopic OCT contrast in excised human breast tumors. , 2008, , .		12
260	Nonlinear interferometric vibrational imaging for fast label-free visualization of molecular domains in skin. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2817-2825.	3.7	12
261	Aberration characterization for the optimal design of high-resolution endoscopic optical coherence tomography catheters. <i>Optics Letters</i> , 2012, 37, 1100.	3.3	12
262	In vivo imaging of immune cell dynamics in skin in response to zinc-oxide nanoparticle exposure. <i>Biomedical Optics Express</i> , 2013, 4, 1817.	2.9	12
263	Dual-coil magnetomotive optical coherence tomography for contrast enhancement in liquids. <i>Optics Express</i> , 2013, 21, 7139.	3.4	12
264	SEGMENTATION AND CORRELATION OF OPTICAL COHERENCE TOMOGRAPHY AND X-RAY IMAGES FOR BREAST CANCER DIAGNOSTICS. <i>Journal of Innovative Optical Health Sciences</i> , 2013, 06, 1350015.	1.0	12
265	Multifocal interferometric synthetic aperture microscopy. <i>Optics Express</i> , 2014, 22, 16606.	3.4	12
266	Noise characterization of broadband fiber Cherenkov radiation as a visible-wavelength source for optical coherence tomography and two-photon fluorescence microscopy. <i>Optics Express</i> , 2014, 22, 20138.	3.4	12
267	Intravascular magnetomotive optical coherence tomography of targeted early-stage atherosclerotic changes in ex vivo hyperlipidemic rabbit aortas. <i>Journal of Biophotonics</i> , 2016, 9, 109-116.	2.3	12
268	Label-free molecular profiling for identification of biomarkers in carcinogenesis using multimodal multiphoton imaging. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 742-742.	2.0	12
269	Real-time three-dimensional histology-like imaging by label-free nonlinear optical microscopy. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 2177-2190.	2.0	12
270	Longitudinal optical coherence tomography to visualize the in vivo response of middle ear biofilms to antibiotic therapy. <i>Scientific Reports</i> , 2021, 11, 5176.	3.3	12



#	ARTICLE	IF	CITATIONS
271	Interstitial magnetic thermotherapy dosimetry based on shear wave magnetomotive optical coherence elastography. <i>Biomedical Optics Express</i> , 2019, 10, 539.	2.9	12
272	Label-free metabolic and structural profiling of dynamic biological samples using multimodal optical microscopy with sensorless adaptive optics. <i>Scientific Reports</i> , 2022, 12, 3438.	3.3	12
273	Magnetomotive Optical Coherence Tomography for the Assessment of Atherosclerotic Lesions Using $\lambda/2$ Integrin-Targeted Microspheres. <i>Molecular Imaging and Biology</i> , 2014, 16, 36-43.	2.6	11
274	Intraoperative optical coherence tomography of the human thyroid: Feasibility for surgical assessment. <i>Translational Research</i> , 2018, 195, 13-24.	5.0	11
275	Real-time pixelwise phasor analysis for video-rate two-photon fluorescence lifetime imaging microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 4003.	2.9	11
276	Synthetic polarization-sensitive optical coherence tomography by deep learning. <i>Npj Digital Medicine</i> , 2021, 4, 105.	10.9	11
277	Optical Coherence Elastography. , 2015, , 1007-1054.		11
278	Intracellular imaging of docosanol in living cells by coherent anti-Stokes Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , 2017, 22, 070502.	2.6	11
279	Automated fast computational adaptive optics for optical coherence tomography based on a stochastic parallel gradient descent algorithm. <i>Optics Express</i> , 2020, 28, 23306.	3.4	11
280	Cross-validation of theoretically quantified fiber continuum generation and absolute pulse measurement by MIIPS for a broadband coherently controlled optical source. <i>Applied Physics B: Lasers and Optics</i> , 2012, 106, 379-384.	2.2	10
281	Volumetric full-range magnetomotive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2014, 19, 126001.	2.6	10
282	Longitudinal <i>in vivo</i> tracking of adverse effects following topical steroid treatment. <i>Experimental Dermatology</i> , 2016, 25, 362-367.	2.9	10
283	Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2837-2846.	4.2	10
284	Automated sensorless single-shot closed-loop adaptive optics microscopy with feedback from computational adaptive optics. <i>Optics Express</i> , 2019, 27, 12998.	3.4	10
285	Self-locomotive, antimicrobial microrobot (SLAM) swarm for enhanced biofilm elimination. <i>Biomaterials</i> , 2022, 287, 121610.	11.4	10
286	Magnetic contrast agents for optical coherence tomography. , 2004, , .		9
287	Plastinated tissue samples as three-dimensional models for optical instrument characterization. <i>Optics Express</i> , 2008, 16, 16272.	3.4	9
288	Polarization-sensitive interferometric synthetic aperture microscopy. <i>Applied Physics Letters</i> , 2015, 107, 211106.	3.3	9

#	ARTICLE	IF	CITATIONS
289	Computed Optical Interferometric Imaging: Methods, Achievements, and Challenges. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 186-196.	2.9	9
290	A quantitative framework for the analysis of multimodal optical microscopy images. Quantitative Imaging in Medicine and Surgery, 2017, 7, 24-37.	2.0	9
291	Video-rate multimodal multiphoton imaging and three-dimensional characterization of cellular dynamics in wounded skin. Journal of Innovative Optical Health Sciences, 2020, 13, .	1.0	9
292	Handheld Briefcase Optical Coherence Tomography with Real-Time Machine Learning Classifier for Middle Ear Infections. Biosensors, 2021, 11, 143.	4.7	9
293	Inactivation and sensitization of Pseudomonas aeruginosa by microplasma jet array for treating otitis media. Npj Biofilms and Microbiomes, 2021, 7, 48.	6.4	9
294	Optical Coherence Tomography for Cancer Detection. , 2010, , 209-250.		9
295	Portable real-time optical coherence tomography system for intraoperative imaging and staging of breast cancer. , 2007, , .		8
296	High-speed processing architecture for spectral-domain optical coherence microscopy. Journal of Biomedical Optics, 2008, 13, 044013.	2.6	8
297	Versatile photonic crystal fiber-enabled source for multi-modality biophotonic imaging beyond conventional multiphoton microscopy. Proceedings of SPIE, 2010, , .	0.8	8
298	<i>In vivo</i> evaluation of adipose- and muscle-derived stem cells as a treatment for nonhealing diabetic wounds using multimodal microscopy. Journal of Biomedical Optics, 2016, 21, 086006.	2.6	8
299	In vivo detection of endotracheal tube biofilms in intubated critical care patients using catheterâ€based optical coherence tomography. Journal of Biophotonics, 2019, 12, e201800307.	2.3	8
300	Longitudinal monitoring of cell metabolism in biopharmaceutical production using labelâ€free fluorescence lifetime imaging microscopy. Biotechnology Journal, 2021, 16, e2000629.	3.5	8
301	Comparison of a MEMS-Based Handheld OCT Scanner With a Commercial Desktop OCT System for Retinal Evaluation. Translational Vision Science and Technology, 2014, 3, 10.	2.2	8
302	Local wavefront mapping in tissue using computational adaptive optics OCT. Optics Letters, 2019, 44, 1186.	3.3	8
303	Group refractive index reconstruction with broadband interferometric confocal microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1156.	1.5	7
304	Modeling and measurement of tissue elastic moduli using optical coherence elastography. Proceedings of SPIE, 2008, , .	0.8	7
305	Molecular identification by generating coherence between molecular normal modes using stimulated Raman scattering. Optics Letters, 2009, 34, 1756.	3.3	7
306	Retinal imaging with en face and cross-sectional optical coherence tomography delineates outer retinal changes in cancer-associated retinopathy secondary to Merkel cell carcinoma. Journal of Ophthalmic Inflammation and Infection, 2015, 5, 53.	2.2	7

#	ARTICLE	IF	CITATIONS
307	Quantitative characterization of mechanically indented <i>in vivo</i> human skin in adults and infants using optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2017, 22, 034001.	2.6	7
308	Effect of Nonphosphorus Corrosion Inhibitors on Biofilm Pore Structure and Mechanical Properties. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14716-14724.	10.0	7
309	The feasibility and utility of optical coherence tomography directed histopathology for surgical margin assessment of canine mast cell tumours. <i>Veterinary and Comparative Oncology</i> , 2020, 19, 616-623.	1.8	7
310	<i>In vivo</i> dynamic characterization of the human tympanic membrane using pneumatic optical coherence tomography. <i>Journal of Biophotonics</i> , 2021, 14, e202000215.	2.3	7
311	Intraoperative Label-Free Multimodal Nonlinear Optical Imaging for Point-of-Procedure Cancer Diagnostics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-12.	2.9	7
312	Simultaneous 4-phase-shifted full-field optical coherence microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 981.	2.9	7
313	Simultaneous two-photon activation and imaging of neural activity based on spectral-temporal modulation of supercontinuum light. <i>Neurophotonics</i> , 2020, 7, 045007.	3.3	7
314	Two-photon microscope using a fiber-based approach for supercontinuum generation and light delivery to a small-footprint optical head. <i>Optics Letters</i> , 2020, 45, 909.	3.3	7
315	Computational Photon Counting Using Multithreshold Peak Detection for Fast Fluorescence Lifetime Imaging Microscopy. <i>ACS Photonics</i> , 2022, 9, 2748-2755.	6.6	7
316	Optical characterization of contrast agents for optical coherence tomography. , 2003, 4967, 129.		6
317	Light-scattering spectroscopic optical coherence tomography for differentiating cells in 3D cell culture. , 2006, 6088, 26.		6
318	Advances in Contrast Enhancement for Optical Coherence Tomography. , 2006, 2006, 121-4.		6
319	Emergence of self-organized long-period fiber gratings in supercontinuum-generating optical fibers. <i>Optics Letters</i> , 2009, 34, 668.	3.3	6
320	Comparison of a MEMS-Based Handheld OCT Scanner With a Commercial Desktop OCT System for Retinal Evaluation. <i>Translational Vision Science and Technology</i> , 2014, 3, 3.	2.2	6
321	Enhancement of optical coherence microscopy in turbid media by an optical parametric amplifier. <i>Journal of Biophotonics</i> , 2015, 8, 512-521.	2.3	6
322	Comparison between optical coherence tomographic and histopathologic appearances of artifacts caused by common surgical conditions and instrumentation. <i>Veterinary Surgery</i> , 2019, 48, 1361-1371.	1.0	6
323	Diagnostic accuracy of optical coherence tomography for assessing surgical margins of canine soft tissue sarcomas in observers of different specialties. <i>Veterinary Surgery</i> , 2021, 50, 111-120.	1.0	6
324	High-speed label-free two-photon fluorescence microscopy of metabolic transients during neuronal activity. <i>Applied Physics Letters</i> , 2021, 118, 081104.	3.3	6

#	ARTICLE	IF	CITATIONS
325	Tracking the formation and degradation of fatty-acid-accumulated mitochondria using label-free chemical imaging. <i>Scientific Reports</i> , 2021, 11, 6671.	3.3	6
326	K-means clustering of coherent Raman spectra from extracellular vesicles visualized by label-free multiphoton imaging. <i>Optics Letters</i> , 2020, 45, 3613.	3.3	6
327	Differential Uptake of Antisense Oligonucleotides in Mouse Hepatocytes and Macrophages Revealed by Simultaneous Two-Photon Excited Fluorescence and Coherent Raman Imaging. <i>Nucleic Acid Therapeutics</i> , 2021, , .	3.6	6
328	Retinal response of <i>Macaca mulatta</i> to picosecond laser pulses of varying energy and spot size. <i>Journal of Biomedical Optics</i> , 2004, 9, 1288.	2.6	5
329	The impact of aberrations on object reconstruction with interferometric synthetic aperture microscopy. , 2011, , .		5
330	The Gold Nanorod-Biology Interface: From Proteins to Cells to Tissue. <i>Current Physical Chemistry</i> , 2013, 3, 128-135.	0.2	5
331	<i>In vivo</i> intra-operative breast tumor margin detection using a portable OCT system with a handheld surgical imaging probe. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
332	Ratiometric analysis of optical coherence tomography-measured <i>in vivo</i> retinal layer thicknesses for the detection of early diabetic retinopathy. <i>Journal of Biophotonics</i> , 2017, 10, 1430-1441.	2.3	5
333	Introduction to the feature issue on the 25 year anniversary of optical coherence tomography. <i>Biomedical Optics Express</i> , 2017, 8, 3289.	2.9	5
334	Evaluating optical coherence tomography for surgical margin assessment of canine mammary tumours. <i>Veterinary and Comparative Oncology</i> , 2021, 19, 697-706.	1.8	5
335	Optical coherence tomography imaging of excised canine apocrine gland anal sac adenocarcinoma tumours. <i>Veterinary and Comparative Oncology</i> , 2021, 19, 759-762.	1.8	5
336	Computational adaptive optics for polarization-sensitive optical coherence tomography. <i>Optics Letters</i> , 2021, 46, 2071.	3.3	5
337	Single-shot two-dimensional spectroscopic magnetomotive optical coherence elastography with graphics processing unit acceleration. <i>Optics Letters</i> , 2020, 45, 4124.	3.3	5
338	Development of a fast calibration method for image mapping spectrometry. <i>Applied Optics</i> , 2020, 59, 6062.	1.8	5
339	Ultra-parallel label-free optophysiology of neural activity. <i>IScience</i> , 2022, 25, 104307.	4.1	5
340	Coherent optical imaging and guided interventions in breast cancer: translating technology into clinical applications. , 2008, , .		4
341	Expression Order of $\alpha$ -v and $\beta$ -3 Integrin Subunits in the N-Methyl-N-Nitrosourea-Induced Rat Mammary Tumor Model. <i>Cancer Investigation</i> , 2009, 27, 496-503.	1.3	4
342	Coherent fiber supercontinuum laser for nonlinear biomedical imaging. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
343	Special Section Guest Editorial: Optical Elastography and Measurement of Tissue Biomechanics. Journal of Biomedical Optics, 2013, 18, 121501.	2.6	4
344	Interferometric synthetic aperture microscopy implementation on a floating point multi-core digital signal processor. Proceedings of SPIE, 2013, , .	0.8	4
345	Implementation and evaluation of Google Glass for visualizing real-time image and patient data in the primary care office. Proceedings of SPIE, 2014, , .	0.8	4
346	Optical parametrically gated microscopy in scattering media. Optics Express, 2014, 22, 22547.	3.4	4
347	Filtering for unwrapping noisy Doppler optical coherence tomography images for extended microscopic fluid velocity measurement range. Optics Letters, 2016, 41, 4024.	3.3	4
348	Characterization of Magnetic Nanoparticle-Seeded Microspheres for Magnetomotive and Multimodal Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-14.	2.9	4
349	Compressive sensing for polarization sensitive optical coherence tomography. Journal Physics D: Applied Physics, 2021, 54, 294005.	2.8	4
350	Roadmap on bio-nano-photonics. Journal of Optics (United Kingdom), 2021, 23, 073001.	2.2	4
351	Phase-based Eulerian motion magnification reveals eardrum mobility from pneumatic otoscopy without sealing the ear canal. JPhys Photonics, 2020, 2, 034004.	4.6	4
352	Label-free multimodal nonlinear optical imaging of needle biopsy cores for intraoperative cancer diagnosis. Journal of Biomedical Optics, 2022, 27, .	2.6	4
353	Multimodal Handheld Probe for Characterizing Otitis Media " Integrating Raman Spectroscopy and Optical Coherence Tomography. Frontiers in Photonics, 0, 3, .	2.4	4
354	<title>Mode-locked solid state laser sources for optical coherence tomography</title>. , 1997, , .		3
355	Molecular species-sensitive optical coherence tomography using coherent anti-stokes Raman scattering spectroscopy. , 2003, 4956, 9.		3
356	Phase-resolved spectral-domain magnetomotive optical coherence tomography. , 2007, , .		3
357	Localized waveguide formation in germanosilicate fiber transmitting femtosecond IR pulses. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 274.	2.1	3
358	Magnetic protein microspheres as dynamic contrast agents for magnetomotive optical coherence tomography. , 2008, , .		3
359	Static third-harmonic lines in widely variable fiber continuum generation. Physical Review A, 2014, 89, .	2.5	3
360	Introduction to the issue on biophotonics. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 4-7.	2.9	3

#	ARTICLE	IF	CITATIONS
361	A computational approach to high-resolution imaging of the living human retina without hardware adaptive optics. Proceedings of SPIE, 2015, , .	0.8	3
362	Ratiometric analysis of in vivo retinal layer thicknesses in multiple sclerosis. Journal of Biomedical Optics, 2016, 21, 1.	2.6	3
363	<i>In Vivo</i> Assessment of Engineered Skin Cell Delivery with Multimodal Optical Microscopy. Tissue Engineering - Part C: Methods, 2017, 23, 434-442.	2.1	3
364	Dynamic Tracking Algorithm for Time-Varying Neuronal Network Connectivity using Wide-Field Optical Image Video Sequences. Scientific Reports, 2020, 10, 2540.	3.3	3
365	Efficacy of endotracheal tube suctioning in intubated intensive care unit patients determined by in vivo catheter-based optical coherence tomographyâ€”a pilot study. Quantitative Imaging in Medicine and Surgery, 2021, 11, 1-8.	2.0	3
366	flimview : A software framework to handle, visualize and analyze FLIM data. F1000Research, 0, 9, 574.	1.6	3
367	Optical coherence tomography for rapid tissue screening and directed histological sectioning. Analytical Cellular Pathology, 2012, 35, 129-43.	1.4	3
368	Development of a Smartphone-Based Skin Simulation Model for Medical Education. Simulation in Healthcare, 2021, 16, 414-419.	1.2	3
369	New noninvasive imaging technique for cataract evaluation in the rhesus monkey. , 1995, , .		2
370	Real-time digital design for an optical coherence tomography acquisition and processing system. , 2004, , .		2
371	Gaussian beam deconvolution in optical coherence tomography. , 2005, , .		2
372	Optical coherence elastography of developing biological tissues. , 2005, , .		2
373	High-resolution in vivo nanoparticle imaging using magnetomotive optical coherence tomography. , 2006, , .		2
374	Real-time inverse scattering for optical coherence tomography. , 2007, , .		2
375	High numerical aperture full-field optical coherence tomography with space-invariant resolution without scanning the focus. , 2007, , .		2
376	Real-Time Interferometric Synthetic Aperture Microscopy for Clinical Applications. Optics and Photonics News, 2008, 19, 32.	0.5	2
377	Spectral-domain magnetomotive OCT imaging of magnetic nanoparticle biodistribution. , 2008, , .		2
378	Multimodality microscopy of cell dynamics in three-dimensional engineered and natural tissues. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
379	Optical pulse shaping for selective excitation of coherent molecular vibrations by stimulated Raman scattering. , 2009, , .		2
380	Measurements of Biomechanics by Dynamic Optical Coherence Elastography. Optics and Photonics News, 2009, 20, 18.	0.5	2
381	Optical arbitrary waveform characterization using linear spectrograms. Optics Communications, 2010, 283, 3017-3021.	2.1	2
382	Magnetomotive optical coherence microscopy for cell dynamics and biomechanics. Proceedings of SPIE, 2011, , .	0.8	2
383	Long-term time-lapse multimodal microscopy for tracking cell dynamics in live tissue. Proceedings of SPIE, 2011, , .	0.8	2
384	Dynamic method of optical coherence elastography in determining viscoelasticity of polymers and tissues. , 2013, 2013, 117-20.		2
385	Molecular Optical Coherence Tomography Contrast Enhancement and Imaging. , 2015, , 1429-1454.		2
386	Dynamic optical coherence elastography and applications. Proceedings of SPIE, 2009, , .	0.8	2
387	Surgical Guidance and Intervention. , 2001, , 613-647.		2
388	Human Breast Cancer Identification by K-Space Analysis of Optical Coherence Tomography Images. , 2006, , .		2
389	Computed optical interferometric tomography for high-speed volumetric cellular imaging. , 2014, , .		2
390	Interferometric synthetic aperture microscopy. , 2007, , .		2
391	Interferometric Synthetic Aperture Microscopy (ISAM). , 2015, , 965-1004.		2
392	<title>Endoscopic optical coherence tomography</title>. , 1997, , .		1
393	Optical manipulation of silicon microparticles in biological environments. , 2003, , .		1
394	Nonlinear interferometric vibrational imaging of molecular species. , 2004, 5321, 149.		1
395	Optical coherence tomography of cell dynamics in three-dimensional engineered tissues. , 2005, 5699, 102.		1
396	Optical coherence tomography of cell dynamics in three-dimensional engineered tissues. , 2005, , .		1

#	ARTICLE	IF	CITATIONS
397	Multi-modality imaging of structure and function combining spectral-domain optical coherence and multiphoton microscopy. , 2006, 6079, 226.		1
398	Demonstration of inverse scattering in optical coherence tomography. , 2006, 6079, 312.		1
399	Backscattering albedo contrast in OCT using plasmon-resonant gold nanorods. , 2007, 6429, 298.		1
400	Nonlinear Interferometric Vibrational Imaging. ACS Symposium Series, 2007, , 236-258.	0.5	1
401	Interferometric Synthetic Aperture Microscopy. , 2008, , .		1
402	Nonlinear interferometric vibrational imaging of biological tissue. Proceedings of SPIE, 2008, , .	0.8	1
403	Design of Matched Optical Pulses for Coherent Raman Imaging. Optics and Photonics News, 2009, 20, 31.	0.5	1
404	Introduction to the Special Issue on Biophotonicsâ€”Part 1. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 475-477.	2.9	1
405	Introduction to the Special Issue on Biophotonicsâ€”Part 2. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 703-705.	2.9	1
406	Low power real time signal processing engine for optical coherence tomography systems using multi-core digital signal processor. Proceedings of SPIE, 2011, , .	0.8	1
407	Magnetomotive molecular probes for targeted contrast enhancement and therapy. Proceedings of SPIE, 2011, , .	0.8	1
408	Molecular histopathology by nonlinear interferometric vibrational imaging. Proceedings of SPIE, 2011, , .	0.8	1
409	Optical coherence tomography for the diagnosis of human otitis media. Proceedings of SPIE, 2013, , .	0.8	1
410	Tunable femtosecond Cherenkov fiber laser. , 2014, , .		1
411	Real-time computed optical interferometric tomography. , 2014, , .		1
412	Computational adaptive optics of the human retina. , 2016, , .		1
413	Automated single-shot sensorless adaptive optics on a multimodal imaging platform using computational adaptive optics. , 2021, , .		1
414	Diagnostic accuracy of optical coherence tomography for surgical margin assessment of feline injectionâ€”site sarcoma. Veterinary and Comparative Oncology, 2021, 19, 632-640.	1.8	1



#	ARTICLE	IF	CITATIONS
415	An inverse scattering method for catheter-based optical coherence tomography. , 2006, , .		1
416	Differentiation of Ex Vivo Human Breast Tissue using Polarization-Sensitive Optical Coherence Tomography. , 2014, , .		1
417	Dynamic Optical Coherence Elastography and Applications. , 2009, , .		1
418	Interferometric Synthetic Aperture Microscopy with Computational Adaptive Optics for High-Resolution Tomography of Scattering Tissue. , 2012, , .		1
419	Optical Coherence Tomographic Imaging of In Vivo Cellular Dynamics. , 1998, , .		1
420	In-Vivo Catheter-Based Imaging with Optical Coherence Tomography. , 1998, , .		1
421	Intraoperative OCT in Surgical Oncology. , 2015, , 2393-2412.		1
422	Wavefront Measurement Using Computational Adaptive Optics OCT. , 2017, , .		1
423	Statistical evaluation of reader variability in assessing the diagnostic performance of optical coherence tomography. Journal of Biomedical Optics, 2020, 25, .	2.6	1
424	3D OCT characterization and quantification of refractive indices of bacteria and biofilms with antibiotic interventions. , 2021, , .		1
425	Imaging and characterization of transitions in biofilm morphology via anomalous diffusion following environmental perturbation. Biomedical Optics Express, 2022, 13, 1654-1670.	2.9	1
426	High-resolution in-vivo intra-arterial imaging with optical coherence tomography. , 1999, 3590, 324.		0
427	<title>Endoscopic optical coherence tomography imaging for surgical diagnostics and guidance in the gastrointestinal tract</title>. , 1999, 3595, 158.		0
428	<title>High-resolution imaging of neoplastic lesions using optical coherence tomography</title>. , 1999, , .		0
429	Use of molecular beacons for the detection of bacteria in microfluidic devices. , 2003, 4982, 170.		0
430	Distortion corrected imaging using projected index computed tomography. , 2003, , .		0
431	Nonlinear Interferometric Vibrational Imaging with Differentiation of Resonant CARS from Nonresonant Four-Wave Mixing Processes. , 2004, , TuB3.		0
432	Imaging of mixing dynamics in micromixers using microscopy and optical coherence tomography. , 2004, , .		0

#	ARTICLE	IF	CITATIONS
433	Functional optical coherence tomography of stimulated and spontaneous scattering changes in neural tissue. , 2004, , .		0
434	Structural and functional imaging of engineered tissue development using an integrated OCT and multiphoton microscope. , 2004, 5319, 1.		0
435	Molecularly sensitive optical ranging using nonlinear interferometric vibrational imaging. , 2005, , .		0
436	A least-square fitting algorithm for separating absorption and scattering profiles in spectroscopic optical coherence tomography. , 2005, , .		0
437	Nonlinear interferometric vibrational imaging: optical ranging and spatial localization of CARS. , 2005, , .		0
438	Advanced Spectroscopic Coherence Tomography. , 2006, , .		0
439	Detection of ultrastructural changes in genetically altered and exercised skeletal muscle using PS-OCT. , 2006, , .		0
440	Interferometric Synthetic Aperture Microscopy: Physics-Based Image Reconstruction from Optical Coherence Tomography Data. , 2007, , .		0
441	Comment on "In vivo cancer diagnosis with optical spectroscopy and acoustically induced blood stasis using a murine Mca35 model," Medical Physics, 2007, 34, 1623.	3.0	0
442	Needle-probe system for the measurement of tissue refractive index. , 2007, , .		0
443	Anomalous bending effect in photonic crystal fibers. Optics Express, 2008, 16, 5617.	3.4	0
444	Observation of the photoscattering effect from supercontinuum-generating germanosilicate fiber. Proceedings of SPIE, 2008, , .	0.8	0
445	Interferometric synthetic aperture microscopy: tissue structure inferred by computed imaging techniques. Proceedings of SPIE, 2008, , .	0.8	0
446	Chirped four-wave mixing in the largely normal dispersion regime from femtosecond pulse-pumped photonic crystal fiber. , 2009, , .		0
447	Validation of nonlinear interferometric vibrational imaging as a molecular OCT technique by the use of Raman microscopy. Proceedings of SPIE, 2009, , .	0.8	0
448	Wave-Breaking Extended Coherent Fiber Supercontinuum Pulse Compression. Optics and Photonics News, 2012, 23, 55.	0.5	0
449	Introduction to the Issue on Biophotonics"Part 1. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1039-1041.	2.9	0
450	Guest Editorial Introduction to the Issue on Biophotonics"Part 2. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1267-1269.	2.9	0

#	ARTICLE	IF	CITATIONS
451	All-fiber femtosecond Cherenkov laser at visible wavelengths. , 2013, , .		0
452	All-fiber femtosecond Cherenkov source. EPJ Web of Conferences, 2013, 41, 10017.	0.3	0
453	Introduction to the BIOMED 2014 feature issue. Biomedical Optics Express, 2014, 5, 4144.	2.9	0
454	Finding Bugs in your Ear: Clinical Imaging of Middle-Ear Infections and Biofilms using OCT. , 2015, , .		0
455	Computational adaptive optics for broadband optical interferometric tomography of biological tissue. , 2015, , .		0
456	Data Analysis and Signal Postprocessing for Optical Coherence Tomography. , 2015, , 407-436.		0
457	Nonlinear Interferometric Vibrational Imaging (NIVI) with Novel Optical Sources. , 2015, , 1237-1256.		0
458	Computational Adaptive Optics for High-Resolution Imaging of the Living Human Retina. , 2015, , .		0
459	Multimodal Multiphoton Microscopy of Carcinogenesis. , 2016, , .		0
460	Stain-Free Structural and Molecular Histopathology using Programmable Supercontinuum Pulses. , 2017, , .		0
461	Low-noise femtosecond Cherenkov fiber laser, continuously tunable across the entire red-green-blue spectral range. EPJ Web of Conferences, 2019, 205, 01002.	0.3	0
462	Label-Free Multimodal Multiphoton Intravital Imaging. Advances in Experimental Medicine and Biology, 2021, 3233, 127-146.	1.6	0
463	10.1063/5.0031348.1. , 2021, , .		0
464	Optical Coherence Tomography and Developmental Biology. , 2001, , 505-538.		0
465	Magnetically-inducible optical contrast agents for optical coherence tomography. , 2002, , .		0
466	Optical coherence tomography of breast cancer: feasibility for surgical guidance. , 2004, , .		0
467	Functional optical coherence tomography of neurophysiology. , 2004, , .		0
468	Retrieval of a Coherent anti-Stokes Raman Spectrum Using a Broadband Chirped Pump Pulse. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
469	Three-Dimensional Visualization of Lymph Node Morphology using OCT. , 2006, , .		0
470	Multimodality Microscopy for Structural and Functional Imaging of Three-Dimensional Cell Dynamics. , 2006, , .		0
471	Refractive Index of Rat Mammary Tumor Tissue. , 2006, , .		0
472	Optical Coherence Elastography of Engineered and Developing Tissue. Tissue Engineering, 2006, .	4.6	0
473	Polarimetric Interferometric Synthetic Aperture Microscopy: Vectorial Computed Imaging from Optical Coherence Tomography Data. , 2007, , .		0
474	Intraoperative Needle-based Refractive Index Measurement of Ex Vivo Human Breast Tissue. , 2007, , .		0
475	Intraoperative Optical Biopsy of Breast Cancer. , 2007, , .		0
476	Magnetomotive Molecular Nanoprobes for Optical Biomedical Imaging and Diagnostics. , 2011, , .		0
477	Interferometric synthetic aperture microscopy: asymptotics and corrections. , 2011, , .		0
478	Primary Care Imaging using Optical Coherence Tomography for Advanced Point-of-Care Diagnostics. , 2012, , .		0
479	Investigation of Bacterial Biofilms in the Human Middle Ear using OCT Techniques and Acoustic Measurements. , 2012, , .		0
480	High-speed Interferometric Synthetic Aperture Microscopy on a Graphics Processing Unit. , 2012, , .		0
481	Magnetomotive contrast in optical coherence tomography for detecting early-stage atherosclerosis using targeted microspheres. , 2012, , .		0
482	Broadband optical interferometric tomography with computational adaptive optics using $\tilde{\epsilon}$ guide stars <sup>â€™</sup> . , 2012, , .		0
483	Broadband Visible Fiber Sources Using 1550-nm-Converted Cherenkov Radiation with Gaussian-Like Spectra. , 2013, , .		0
484	Multifocal Interferometric Synthetic Aperture Microscopy. , 2013, , .		0
485	Development of an Intravascular Magnetomotive Optical Coherence Tomography System. , 2014, , .		0
486	Electrically-Tunable Multi-Color Ultrafast Cherenkov Fiber Laser. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
487	Two and Three Dimensional Imaging of Normal and Osteoarthritic Cartilage Microstructure with Optical Coherence Tomography. , 1998, , .		0
488	Optical Coherence Tomography using Femtosecond Lasers. Springer Series in Chemical Physics, 1998, , 150-152.	0.2	0
489	Optical Coherence Tomography in Tissue Engineering. , 2015, , 1965-2001.		0
490	Sensor-Based Manual Scanning Technique for Hand-Held Optical Coherence Tomography Imaging. , 2015, , .		0
491	DSP Technology and Methods for OCT. , 2015, , 437-458.		0
492	Optical coherence microscopy using hardware and computational adaptive optics. , 2015, , .		0
493	Extracting Full Susceptibility Tensor Using Modified Optical Coherence Tomography. , 2015, , .		0
494	Automation of Interferometric Synthetic Aperture Microscopy. , 2015, , .		0
495	Filtering Doppler OCT Improves Unwrapping and Extends Range of Microscopic Fluid Velocity Measurement. , 2016, , .		0
496	Filtering and Unwrapping Doppler Optical Coherence Tomography Velocity Maps. , 2016, , .		0
497	Intraoperative In Vivo Assessment of Lymph Nodes with Optical Coherence Tomography. , 2016, , .		0
498	Spectroscopic Raman Analysis of Tumor Micro- and Macroenvironments in Human Breast and Rat Mammary Cancer. , 2016, , .		0
499	Intraoperative OCT for Soft Tissue Sarcoma Margin Identification. , 2016, , .		0
500	Correction of aberrations in the human eye using computational methods. SPIE Newsroom, 2016, 2016, .	0.1	0
501	Quantitative Multimodal 3D Characterization of Cellular Dynamics in Wounded Skin. , 2017, , .		0
502	High-Speed Two-Photon Fluorescence Lifetime Imaging Microscopy of NADH for Label-Free Metabolic Imaging. , 2017, , .		0
503	Adaptive multiphoton imaging by high peak-power coherent fiber supercontinuum. , 2017, , .		0
504	Depth-Resolved Characterization of the In Vivo Tympanic Membrane using Nano-Sensitive Optical Coherence Tomography. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
505	Optical Parametric Amplification of Gated Confocal Reflectance Microscopy Signals in Scattering Media. , 2018, , .		0
506	Imaging Heterogeneity of NAD(P)H in Individual Extracellular Vesicles Using Fluorescence Lifetime Imaging Microscopy (FLIM). , 2020, , .		0
507	Characterizing Treatment Response of Pancreatic Tumor Patient-Derived Xenografts in Mice by Simultaneous Label-Free Autofluorescence Multi-Harmonic (SLAM) Microscopy. , 2020, , .		0
508	Label-free Multimodal Nonlinear Optical Imaging of Needle Biopsies: Towards Real-time Monitoring of Living Biopsies. , 2021, , .		0
509	Automated classification of otitis media in pediatric OCT images: Augmenting with gold-standard animal model data. , 2021, , .		0
510	Deep-Learning-Enabled Polarization-Sensitive Optical Coherence Tomography (OCT). , 2021, , .		0
511	Visualising Middle Ear Biofilms in Otitis Media: a new benchmark for successful treatment. ENT & Audiology News, 2012, 21, 94-95.	0.0	0
512	Computational Aberration Correction for Human Retinal Imaging. Optics and Photonics News, 2015, 2015, 43.	0.5	0
513	FreeView: portable multiphoton imaging system for multimodal high-data-content label-free imaging. , 2022, , .		0
514	Tracking the binding of multi-functional fluorescent tags for Alzheimer's disease using quantitative multiphoton microscopy. Journal of Biophotonics, 0, , .	2.3	0
515	Combining linear and nonlinear polarization-sensitive imaging modalities for enhanced characterizations of collagen. , 2022, , .		0