Stephen A Boppart

List of Publications by Year
in descending order

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	Imaging and characterization of transitions in biofilm morphology via anomalous diffusion following environmental perturbation. Biomedical Optics Express, 2022, 13, 1654-1670.	2.9	1
2	FreeView: portable multiphoton imaging system for multimodal high-data-content label-free imaging. , 2022, , .		0
3	Label-free metabolic and structural profiling of dynamic biological samples using multimodal optical microscopy with sensorless adaptive optics. Scientific Reports, 2022, 12, 3438.	3.3	12
4	Ultra-parallel label-free optophysiology of neural activity. IScience, 2022, 25, 104307.	4.1	5
5	Label-free multimodal nonlinear optical imaging of needle biopsy cores for intraoperative cancer diagnosis. Journal of Biomedical Optics, 2022, 27, .	2.6	4
6	Self-locomotive, antimicrobial microrobot (SLAM) swarm for enhanced biofilm elimination. Biomaterials, 2022, 287, 121610.	11.4	10
7	Combining linear and nonlinear polarization-sensitive imaging modalities for enhanced characterizations of collagen. , 2022, , .		0
8	Computational Photon Counting Using Multithreshold Peak Detection for Fast Fluorescence Lifetime Imaging Microscopy. ACS Photonics, 2022, 9, 2748-2755.	6.6	7
9	Evaluating optical coherence tomography for surgical margin assessment of canine mammary tumours. Veterinary and Comparative Oncology, 2021, 19, 697-706.	1.8	5
10	Optical coherence tomography imaging of excised canine apocrine gland anal sac adenocarcinoma tumours. Veterinary and Comparative Oncology, 2021, 19, 759-762.	1.8	5
11	In vivo dynamic characterization of the human tympanic membrane using pneumatic optical coherence tomography. Journal of Biophotonics, 2021, 14, e202000215.	2.3	7
12	Diagnostic accuracy of optical coherence tomography for assessing surgical margins of canine soft tissue sarcomas in observers of different specialties. Veterinary Surgery, 2021, 50, 111-120.	1.0	6
13	Label-Free Multimodal Multiphoton Intravital Imaging. Advances in Experimental Medicine and Biology, 2021, 3233, 127-146.	1.6	0
14	Large-scale tumor-associated collagen signatures identify high-risk breast cancer patients. Theranostics, 2021, 11, 3229-3243.	10.0	60
15	Biomechanical sensing of in vivo magnetic nanoparticle hyperthermia-treated melanoma using magnetomotive optical coherence elastography. Theranostics, 2021, 11, 5620-5633.	10.0	17
16	High-speed label-free two-photon fluorescence microscopy of metabolic transients during neuronal activity. Applied Physics Letters, 2021, 118, 081104.	3.3	6
17	10.1063/5.0031348.1. , 2021, , .		0
18	Label-free characterization of single extracellular vesicles using two-photon fluorescence lifetime imaging microscopy of NAD(P)H. Scientific Reports, 2021, 11, 3308.	3.3	18

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19	Automated single-shot sensorless adaptive optics on a multimodal imaging platform using computational adaptive optics. , 2021, , .		1
20	Tracking the formation and degradation of fatty-acid-accumulated mitochondria using label-free chemical imaging. Scientific Reports, 2021, 11, 6671.	3.3	6
21	Longitudinal optical coherence tomography to visualize the in vivo response of middle ear biofilms to antibiotic therapy. Scientific Reports, 2021, 11, 5176.	3.3	12
22	Differentiation of breast tissue types for surgical margin assessment using machine learning and polarization-sensitive optical coherence tomography. Biomedical Optics Express, 2021, 12, 3021.	2.9	22
23	Computational adaptive optics for polarization-sensitive optical coherence tomography. Optics Letters, 2021, 46, 2071.	3.3	5
24	Handheld Briefcase Optical Coherence Tomography with Real-Time Machine Learning Classifier for Middle Ear Infections. Biosensors, 2021, 11, 143.	4.7	9
25	The Cholesterol Metabolite 27HC Increases Secretion of Extracellular Vesicles Which Promote Breast Cancer Progression. Endocrinology, 2021, 162, .	2.8	17
26	Compressive sensing for polarization sensitive optical coherence tomography. Journal Physics D: Applied Physics, 2021, 54, 294005.	2.8	4
27	Longitudinal monitoring of cell metabolism in biopharmaceutical production using labelâ€free fluorescence lifetime imaging microscopy. Biotechnology Journal, 2021, 16, e2000629.	3.5	8
28	Roadmap on bio-nano-photonics. Journal of Optics (United Kingdom), 2021, 23, 073001.	2.2	4
29	Inactivation and sensitization of Pseudomonas aeruginosa by microplasma jet array for treating otitis media. Npj Biofilms and Microbiomes, 2021, 7, 48.	6.4	9
30	Real-time pixelwise phasor analysis for video-rate two-photon fluorescence lifetime imaging microscopy. Biomedical Optics Express, 2021, 12, 4003.	2.9	11
31	Synthetic polarization-sensitive optical coherence tomography by deep learning. Npj Digital Medicine, 2021, 4, 105.	10.9	11
32	Intraoperative Label-Free Multimodal Nonlinear Optical Imaging for Point-of-Procedure Cancer Diagnostics. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-12.	2.9	7
33	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
34	Simultaneous 4-phase-shifted full-field optical coherence microscopy. Biomedical Optics Express, 2021, 12, 981.	2.9	7
35	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
36	Single-photon peak event detection (SPEED): a computational method for fast photon counting in fluorescence lifetime imaging microscopy. Optics Express, 2021, 29, 37759.	3.4	13

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37	Label-free Multimodal Nonlinear Optical Imaging of Needle Biopsies: Towards Real-time Monitoring of Living Biopsies. , 2021, , .		0
38	Automated classification of otitis media in pediatric OCT images: Augmenting with gold-standard animal model data. , 2021, , .		0
39	Deep-Learning-Enabled Polarization-Sensitive Optical Coherence Tomography (OCT). , 2021, , .		0
40	Differential Uptake of Antisense Oligonucleotides in Mouse Hepatocytes and Macrophages Revealed by Simultaneous Two-Photon Excited Fluorescence and Coherent Raman Imaging. Nucleic Acid Therapeutics, 2021, , .	3.6	6
41	3D OCT characterization and quantification of refractive indices of bacteria and biofilms with antibiotic interventions. , 2021, , .		1
42	Development of a Smartphone-Based Skin Simulation Model for Medical Education. Simulation in Healthcare, 2021, 16, 414-419.	1.2	3
43	Assessing the Effect of Middle Ear Effusions on Wideband Acoustic Immittance Using Optical Coherence Tomography. Ear and Hearing, 2020, 41, 811-824.	2.1	19
44	Assessing the severity of psoriasis through multivariate analysis of optical images from non-lesional skin. Scientific Reports, 2020, 10, 9154.	3.3	15
45	Dynamic Signatures of Lipid Droplets as New Markers to Quantify Cellular Metabolic Changes. Analytical Chemistry, 2020, 92, 15943-15952.	6.5	18
46	In vivo characterization of minipig skin as a model for dermatological research using multiphoton microscopy. Experimental Dermatology, 2020, 29, 953-960.	2.9	15
47	Effect of Nonphosphorus Corrosion Inhibitors on Biofilm Pore Structure and Mechanical Properties. Environmental Science & Technology, 2020, 54, 14716-14724.	10.0	7
48	The feasibility and utility of optical coherence tomography directed histopathology for surgical margin assessment of canine mast cell tumours. Veterinary and Comparative Oncology, 2020, 19, 616-623.	1.8	7
49	Real-time three-dimensional histology-like imaging by label-free nonlinear optical microscopy. Quantitative Imaging in Medicine and Surgery, 2020, 10, 2177-2190.	2.0	12
50	Non-invasive monitoring of pharmacodynamics during the skin wound healing process using multimodal optical microscopy. BMJ Open Diabetes Research and Care, 2020, 8, e000974.	2.8	15
51	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
52	Dynamic Tracking Algorithm for Time-Varying Neuronal Network Connectivity using Wide-Field Optical Image Video Sequences. Scientific Reports, 2020, 10, 2540.	3.3	3
53	Otitis Media Middle Ear Effusion Identification and Characterization Using an Optical Coherence Tomography Otoscope. Otolaryngology - Head and Neck Surgery, 2020, 162, 367-374.	1.9	21
54	Phase-based Eulerian motion magnification reveals eardrum mobility from pneumatic otoscopy without sealing the ear canal. JPhys Photonics, 2020, 2, 034004.	4.6	4

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55	Handheld optical coherence tomography for clinical assessment of dental plaque and gingiva. Journal of Biomedical Optics, 2020, 25, .	2.6	13
56	Simultaneous two-photon activation and imaging of neural activity based on spectralâ€“temporal modulation of supercontinuum light. Neurophotonics, 2020, 7, 045007.	3.3	7
57	Depixelation and enhancement of fiber bundle images by bundle rotation. Applied Optics, 2020, 59, 536.	1.8	15
58	Full-field spectral-domain optical interferometry for snapshot three-dimensional microscopy. Biomedical Optics Express, 2020, 11, 5903.	2.9	15
59	Automated fast computational adaptive optics for optical coherence tomography based on a stochastic parallel gradient descent algorithm. Optics Express, 2020, 28, 23306.	3.4	11
60	Two-photon microscope using a fiber-based approach for supercontinuum generation and light delivery to a small-footprint optical head. Optics Letters, 2020, 45, 909.	3.3	7
61	K-means clustering of coherent Raman spectra from extracellular vesicles visualized by label-free multiphoton imaging. Optics Letters, 2020, 45, 3613.	3.3	6
62	Single-shot two-dimensional spectroscopic magnetomotive optical coherence elastography with graphics processing unit acceleration. Optics Letters, 2020, 45, 4124.	3.3	5
63	Emergency ventilator for COVID-19. PLoS ONE, 2020, 15, e0244963.	2.5	26
64	Imaging Heterogeneity of NAD(P)H in Individual Extracellular Vesicles Using Fluorescence Lifetime Imaging Microscopy (FLIM). , 2020, , .		0
65	Characterizing Treatment Response of Pancreatic Tumor Patient-Derived Xenografts in Mice by Simultaneous Label-Free Autofluorescence Multi-Harmonic (SLAM) Microscopy. , 2020, , .		0
66	Development of a fast calibration method for image mapping spectrometry. Applied Optics, 2020, 59, 6062.	1.8	5
67	Statistical evaluation of reader variability in assessing the diagnostic performance of optical coherence tomography. Journal of Biomedical Optics, 2020, 25, .	2.6	1
68	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
69	Comparison between optical coherence tomographic and histopathologic appearances of artifacts caused by common surgical conditions and instrumentation. Veterinary Surgery, 2019, 48, 1361-1371.	1.0	6
70	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
71	Simultaneous label-free autofluorescence-multiharmonic microscopy and beyond. APL Photonics, 2019, 4, .	5.7	20
72	Label-free molecular profiling for identification of biomarkers in carcinogenesis using multimodal multiphoton imaging. Quantitative Imaging in Medicine and Surgery, 2019, 9, 742-742.	2.0	12

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73	Automated classification platform for the identification of otitis media using optical coherence tomography. Npj Digital Medicine, 2019, 2, 22.	10.9	30
74	Label-free visualization and characterization of extracellular vesicles in breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24012-24018.	7.1	58
75	Real-time intraoperative diagnosis by deep neural network driven multiphoton virtual histology. Npj Precision Oncology, 2019, 3, 33.	5.4	29
76	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
77	Intraâ€operative imaging of surgical margins of canine soft tissue sarcoma using optical coherence tomography. Veterinary and Comparative Oncology, 2019, 17, 80-88.	1.8	16
78	Interstitial magnetic thermotherapy dosimetry based on shear wave magnetomotive optical coherence elastography. Biomedical Optics Express, 2019, 10, 539.	2.9	12
79	Digital staining through the application of deep neural networks to multi-modal multi-photon microscopy. Biomedical Optics Express, 2019, 10, 1339.	2.9	41
80	Simultaneous label-free autofluorescence and multi-harmonic imaging reveals in vivo structural and metabolic changes in murine skin. Biomedical Optics Express, 2019, 10, 5431.	2.9	20
81	Tracking metabolic dynamics of apoptosis with high-speed two-photon fluorescence lifetime imaging microscopy. Biomedical Optics Express, 2019, 10, 6408.	2.9	25
82	Automated sensorless single-shot closed-loop adaptive optics microscopy with feedback from computational adaptive optics. Optics Express, 2019, 27, 12998.	3.4	10
83	Local wavefront mapping in tissue using computational adaptive optics OCT. Optics Letters, 2019, 44, 1186.	3.3	8
84	Detection of weak near-infrared optical imaging signals under ambient light by optical parametric amplification. Optics Letters, 2019, 44, 4391.	3.3	13
85	Intraoperative optical coherence tomography of the human thyroid: Feasibility for surgical assessment. Translational Research, 2018, 195, 13-24.	5.0	11
86	Magnetomotive Displacement of the Tympanic Membrane Using Magnetic Nanoparticles: Toward Enhancement of Sound Perception. IEEE Transactions on Biomedical Engineering, 2018, 65, 2837-2846.	4.2	10
87	Direct Analysis of Pathogenic Structures Affixed to the Tympanic Membrane during Chronic Otitis Media. Otolaryngology - Head and Neck Surgery, 2018, 159, 117-126.	1.9	25
88	Investigating the healing mechanisms of an angiogenesisâ€promoting topical treatment for diabetic wounds using multimodal microscopy. Journal of Biophotonics, 2018, 11, e201700195.	2.3	14
89	Optical assessment of the in vivo tympanic membrane status using a handheld optical coherence tomography-based otoscope. Acta Oto-Laryngologica, 2018, 138, 367-374.	0.9	15
90	Intraoperative visualization of the tumor microenvironment and quantification of extracellular vesicles by label-free nonlinear imaging. Science Advances, 2018, 4, eaau5603.	10.3	72

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91	Disintegration of simulated drinking water biofilms with arrays of microchannel plasma jets. Npj Biofilms and Microbiomes, 2018, 4, 24.	6.4	16
92	Intravital imaging by simultaneous label-free autofluorescence-multiharmonic microscopy. Nature Communications, 2018, 9, 2125.	12.8	178
93	Pneumatic low-coherence interferometry otoscope to quantify tympanic membrane mobility and middle ear pressure. Biomedical Optics Express, 2018, 9, 397.	2.9	14
94	Combined hardware and computational optical wavefront correction. Biomedical Optics Express, 2018, 9, 2562.	2.9	16
95	Wavefront measurement using computational adaptive optics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 466.	1.5	14
96	Effect of divalent ions and a polyphosphate on composition, structure, and stiffness of simulated drinking water biofilms. Npj Biofilms and Microbiomes, 2018, 4, 15.	6.4	33
97	In vivo detection of nanometer-scale structural changes of the human tympanic membrane in otitis media. Scientific Reports, 2018, 8, 8777.	3.3	27
98	Economical and compact briefcase spectral-domain optical coherence tomography system for primary care and point-of-care applications. Journal of Biomedical Optics, 2018, 23, 1.	2.6	16
99	Slide-free virtual histochemistry (Part I): development via nonlinear optics. Biomedical Optics Express, 2018, 9, 5240.	2.9	29
100	Slide-free virtual histochemistry (Part II): detection of field cancerization. Biomedical Optics Express, 2018, 9, 5253.	2.9	27
101	Complementary use of polarization-sensitive and standard OCT metrics for enhanced intraoperative differentiation of breast cancer. Biomedical Optics Express, 2018, 9, 6519.	2.9	29
102	High-speed imaging of transient metabolic dynamics using two-photon fluorescence lifetime imaging microscopy. Optica, 2018, 5, 1290.	9.3	43
103	Optical Parametric Amplification of Gated Confocal Reflectance Microscopy Signals in Scattering Media. , 2018, , .		0
104	Nonâ€invasive optical assessment of viscosity of middle ear effusions in otitis media. Journal of Biophotonics, 2017, 10, 394-403.	2.3	43
105	Labelâ€free in vivo cellularâ€level detection and imaging of apoptosis. Journal of Biophotonics, 2017, 10, 143-150.	2.3	29
106	Concurrence of extracellular vesicle enrichment and metabolic switch visualized label-free in the tumor microenvironment. Science Advances, 2017, 3, e1600675.	10.3	39
107	Quantitative characterization of mechanically indented in vivo human skin in adults and infants using optical coherence tomography. Journal of Biomedical Optics, 2017, 22, 034001.	2.6	7
108	Selective in vivo metabolic cell-labeling-mediated cancer targeting. Nature Chemical Biology, 2017, 13, 415-424.	8.0	274

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109	In Vivo Assessment of Engineered Skin Cell Delivery with Multimodal Optical Microscopy. Tissue Engineering - Part C: Methods, 2017, 23, 434-442.	2.1	3
110	Intraoperative optical coherence tomography for soft tissue sarcoma differentiation and margin identification. Lasers in Surgery and Medicine, 2017, 49, 240-248.	2.1	26
111	Coherent control of an opsin in living brain tissue. Nature Physics, 2017, 13, 1111-1116.	16.7	19
112	Ratiometric analysis of optical coherence tomographyâ€“measured inâ€…vivo retinal layer thicknesses for the detection of early diabetic retinopathy. Journal of Biophotonics, 2017, 10, 1430-1441.	2.3	5
113	Quantitative Pneumatic Otoscopy Using a Light-Based Ranging Technique. JARO - Journal of the Association for Research in Otolaryngology, 2017, 18, 555-568.	1.8	17
114	Review of optical coherence tomography in oncology. Journal of Biomedical Optics, 2017, 22, 1.	2.6	104
115	Low-cost hand-held probe for depth-resolved low-coherence interferometry. Biomedical Optics Express, 2017, 8, 338.	2.9	23
116	Computational optical coherence tomography [Invited]. Biomedical Optics Express, 2017, 8, 1549.	2.9	51
117	Nonlinearity-tailored fiber laser technology for low-noise, ultra-wideband tunable femtosecond light generation. Photonics Research, 2017, 5, 750.	7.0	18
118	Introduction to the feature issue on the 25 year anniversary of optical coherence tomography. Biomedical Optics Express, 2017, 8, 3289.	2.9	5
119	Stain-Free Structural and Molecular Histopathology using Programmable Supercontinuum Pulses. , 2017, , .		0
120	A quantitative framework for the analysis of multimodal optical microscopy images. Quantitative Imaging in Medicine and Surgery, 2017, 7, 24-37.	2.0	9
121	Noninvasive in vivo optical coherence tomography tracking of chronic otitis media in pediatric subjects after surgical intervention. Journal of Biomedical Optics, 2017, 22, 1.	2.6	37
122	Clinical translation of handheld optical coherence tomography: practical considerations and recent advancements. Journal of Biomedical Optics, 2017, 22, 1.	2.6	46
123	Intracellular imaging of docosanol in living cells by coherent anti-Stokes Raman scattering microscopy. Journal of Biomedical Optics, 2017, 22, 070502.	2.6	11
124	Biophotonics: the big picture. Journal of Biomedical Optics, 2017, 23, 1.	2.6	22
125	Label-free optical imaging technologies for rapid translation and use during intraoperative surgical and tumor margin assessment. Journal of Biomedical Optics, 2017, 23, 1.	2.6	30
126	In vivo 3D imaging of the human tympanic membrane using a wide-field diagonal-scanning optical coherence tomography probe. Applied Optics, 2017, 56, D115.	2.1	15

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127	Quantitative Multimodal 3D Characterization of Cellular Dynamics in Wounded Skin. , 2017, , .		0
128	High-Speed Two-Photon Fluorescence Lifetime Imaging Microscopy of NADH for Label-Free Metabolic Imaging. , 2017, , .		0
129	Adaptive multiphoton imaging by high peak-power coherent fiber supercontinuum. , 2017, , .		0
130	Depth-Resolved Characterization of the In Vivo Tympanic Membrane using Nano-Sensitive Optical Coherence Tomography. , 2017, , .		0
131	Wavefront Measurement Using Computational Adaptive Optics OCT. , 2017, , .		1
132	Sensor-Based Technique for Manually Scanned Hand-Held Optical Coherence Tomography Imaging. Journal of Sensors, 2016, 2016, 1-7.	1.1	16
133	Ratiometric analysis of in vivo retinal layer thicknesses in multiple sclerosis. Journal of Biomedical Optics, 2016, 21, 1.	2.6	3
134	Multimodal Multiphoton Microscopy of Carcinogenesis. , 2016, , .		0
135	Progress in Cherenkov femtosecond fiber lasers. Journal Physics D: Applied Physics, 2016, 49, 023001.	2.8	27
136	Longitudinal in vivo tracking of adverse effects following topical steroid treatment. Experimental Dermatology, 2016, 25, 362-367.	2.9	10
137	Stain-free histopathology by programmable supercontinuum pulses. Nature Photonics, 2016, 10, 534-540.	31.4	177
138	Detection of retinal blood vessel changes in multiple sclerosis with optical coherence tomography. Biomedical Optics Express, 2016, 7, 2321.	2.9	21
139	A Mosaicking Approach for In Vivo Thickness Mapping of the Human Tympanic Membrane Using Low Coherence Interferometry. JARO - Journal of the Association for Research in Otolaryngology, 2016, 17, 403-416.	1.8	30
140	Filtering for unwrapping noisy Doppler optical coherence tomography images for extended microscopic fluid velocity measurement range. Optics Letters, 2016, 41, 4024.	3.3	4
141	In vivoevaluation 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
142	Automated computational aberration correction method for broadband interferometric imaging techniques. Optics Letters, 2016, 41, 3324.	3.3	22
143	Raman Spectroscopic Analysis Reveals Abnormal Fatty Acid Composition in Tumor Micro- and Macroenvironments in Human Breast and Rat Mammary Cancer. Scientific Reports, 2016, 6, 32922.	3.3	31
144	Intraoperative optical coherence tomography for assessing human lymph nodes for metastatic cancer. BMC Cancer, 2016, 16, 144.	2.6	48

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145	Response of Simulated Drinking Water Biofilm Mechanical and Structural Properties to Long-Term Disinfectant Exposure. Environmental Science & Technology, 2016, 50, 1779-1787.	10.0	66
146	Intravascular magnetomotive optical coherence tomography of targeted earlyâ€stage atherosclerotic changes in ex vivo hyperlipidemic rabbit aortas. Journal of Biophotonics, 2016, 9, 109-116.	2.3	12
147	Computed Optical Interferometric Imaging: Methods, Achievements, and Challenges. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 186-196.	2.9	9
148	Magnetomotive Optical Coherence Elastography for Magnetic Hyperthermia Dosimetry Based on Dynamic Tissue Biomechanics. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 104-119.	2.9	18
149	Computational adaptive optics of the human retina. , 2016, , .		1
150	Automated interferometric synthetic aperture microscopy and computational adaptive optics for improved optical coherence tomography. Applied Optics, 2016, 55, 2034.	2.1	16
151	Rapid diagnosis and differentiation of microbial pathogens in otitis media with a combined Raman spectroscopy and low-coherence interferometry probe: toward in vivo implementation. Journal of Biomedical Optics, 2016, 21, 1.	2.6	15
152	Filtering Doppler OCT Improves Unwrapping and Extends Range of Microscopic Fluid Velocity Measurement. , 2016, , .		0
153	Filtering and Unwrapping Doppler Optical Coherence Tomography Velocity Maps. , 2016, , .		0
154	Intraoperative In Vivo Assessment of Lymph Nodes with Optical Coherence Tomography. , 2016, , .		0
155	Spectroscopic Raman Analysis of Tumor Micro- and Macroenvironments in Human Breast and Rat Mammary Cancer. , 2016, , .		0
156	Intraoperative OCT for Soft Tissue Sarcoma Margin Identification. , 2016, , .		0
157	Correction of aberrations in the human eye using computational methods. SPIE Newsroom, 2016, 2016, .	0.1	0
158	Effect of recombinant interleukin-12 on murine skin regeneration and cell dynamics using in vivo multimodal microscopy. Biomedical Optics Express, 2015, 6, 4277.	2.9	19
159	Polarization-sensitive interferometric synthetic aperture microscopy. Applied Physics Letters, 2015, 107, 211106.	3.3	9
160	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
161	Finding Bugs in your Ear: Clinical Imaging of Middle-Ear Infections and Biofilms using OCT. , 2015, , .		0
162	Suppressing Short-Term Polarization Noise and Related Spectral Decoherence in All-Normal Dispersion Fiber Supercontinuum Generation. Journal of Lightwave Technology, 2015, 33, 1814-1820.	4.6	48

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163	A computational approach to high-resolution imaging of the living human retina without hardware adaptive optics. Proceedings of SPIE, 2015, , .	0.8	3
164	Computational adaptive optics for broadband optical interferometric tomography of biological tissue. , 2015, , .		0
165	Noninvasive depthâ€resolved optical measurements of the tympanic membrane and middle ear for differentiating otitis media. Laryngoscope, 2015, 125, E276-82.	2.0	69
166	Enhancement and wavelength-shifted emission of Cerenkov luminescence using multifunctional microspheres. Physics in Medicine and Biology, 2015, 60, 727-739.	3.0	16
167	Data Analysis and Signal Postprocessing for Optical Coherence Tomography. , 2015, , 407-436.		0
168	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. Annals of Surgical Oncology, 2015, 22, 3356-3362.	1.5	96
169	Computational high-resolution optical imaging of the living human retina. Nature Photonics, 2015, 9, 440-443.	31.4	123
170	Role of Biofilm Roughness and Hydrodynamic Conditions in Legionella pneumophila Adhesion to and Detachment from Simulated Drinking Water Biofilms. Environmental Science & Technology, 2015, 49, 4274-4282.	10.0	91
171	Non-invasive, real-time reporting drug release in vitro and in vivo. Chemical Communications, 2015, 51, 6948-6951.	4.1	51
172	Mechanical contrast in spectroscopic magnetomotive optical coherence elastography. Physics in Medicine and Biology, 2015, 60, 6655-6668.	3.0	15
173	Nonlinear Interferometric Vibrational Imaging (NIVI) with Novel Optical Sources. , 2015, , 1237-1256.		0
174	Computational Adaptive Optics for High-Resolution Imaging of the Living Human Retina. , 2015, , .		0
175	Molecular Optical Coherence Tomography Contrast Enhancement and Imaging. , 2015, , 1429-1454.		2
176	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
177	Enhancement of optical coherence microscopy in turbid media by an optical parametric amplifier. Journal of Biophotonics, 2015, 8, 512-521.	2.3	6
178	Optical Coherence Elastography. , 2015, , 1007-1054.		11
179	Real-time automated thickness measurement of the in vivo human tympanic membrane using optical coherence tomography. Quantitative Imaging in Medicine and Surgery, 2015, 5, 69-77.	2.0	36
180	Optical Coherence Tomography in Tissue Engineering. , 2015, , 1965-2001.		0

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181	Sensor-Based Manual Scanning Technique for Hand-Held Optical Coherence Tomography Imaging. , 2015, , .		0
182	Interferometric Synthetic Aperture Microscopy (ISAM). , 2015, , 965-1004.		2
183	Intraoperative OCT in Surgical Oncology. , 2015, , 2393-2412.		1
184	DSP Technology and Methods for OCT. , 2015, , 437-458.		0
185	Optical coherence microscopy using hardware and computational adaptive optics. , 2015, , .		0
186	Extracting Full Susceptibility Tensor Using Modified Optical Coherence Tomography. , 2015, , .		0
187	Automation of Interferometric Synthetic Aperture Microscopy. , 2015, , .		0
188	Computational Aberration Correction for Human Retinal Imaging. Optics and Photonics News, 2015, 2015, 43.	0.5	0
189	Comparison of a MEMS-Based Handheld OCT Scanner With a Commercial Desktop OCT System for Retinal Evaluation. Translational Vision Science and Technology, 2014, 3, 3.	2.2	6
190	Optical coherence tomography for advanced screening in the primary care office. Journal of Biophotonics, 2014, 7, 525-533.	2.3	61
191	Tunable femtosecond Cherenkov fiber laser. , 2014, , .		1
192	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
193	In vivointra-operative breast tumor margin detection using a portable OCT system with a handheld surgical imaging probe. Proceedings of SPIE, 2014, , .	0.8	5
194	Magnetomotive optical coherence elastography using magnetic particles to induce mechanical waves. Biomedical Optics Express, 2014, 5, 2349.	2.9	41
195	Computed optical interferometric tomography for high-speed volumetric cellular imaging. Biomedical Optics Express, 2014, 5, 2988.	2.9	49
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