List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effects of Intermittent Treatment with Topical Corticosteroids and Calcineurin Inhibitors on Epidermal and Dermal Thickness Using Optical Coherence Tomography and Ultrasound. Skin Pharmacology and Physiology, 2022, 35, 41-50.	2.5	8
2	Characterization of cortical hemodynamic changes following sensory, visual, and speech activation by intraoperative optical imaging utilizing phaseâ€based evaluation methods. Human Brain Mapping, 2022, 43, 598-615.	3.6	5
3	Brillouin and Raman imaging of domain walls in periodically-poled 5%-MgO:LiNbOâ, <i>f</i> . Optics Express, 2022, 30, 5051-5062.	3.4	0
4	Correlation of biomechanics and cancer cell phenotype by combined Brillouin and Raman spectroscopy of U87-MG glioblastoma cells. Journal of the Royal Society Interface, 2022, 19, .	3.4	4
5	Optical coherence tomography and multiphoton microscopy offer new options for the quantification of fibrotic aortic valve disease in ApoEâ^'/â~' mice. Scientific Reports, 2021, 11, 5834.	3.3	7
6	Brillouin Spectroscopy as an Innovative Tool to Investigate Biomechanical Properties of Native Human Aortic Valve and Bioprostheses Tissue. Structural Heart, 2021, 5, 29.	0.6	3
7	Brillouin confocal microscopy to determine biomechanical properties of SULEEI-treated bovine pericardium for application in cardiac surgery. Clinical Hemorheology and Microcirculation, 2021, 79, 179-192.	1.7	2
8	Design and testing of polar-orthotropic multi-layered composites under rotational load. Materials and Design, 2021, 207, 109853.	7.0	2
9	Quantifying the refractive index of ferroelectric domain walls in periodically poled LiNbO3 single crystals by polarization-sensitive optical coherence tomography. Optics Express, 2021, 29, 33615.	3.4	3
10	Visual Function is Gradually Restored During Retina Regeneration in Adult Zebrafish. Frontiers in Cell and Developmental Biology, 2021, 9, 831322.	3.7	9
11	Polarization-sensitive OCT using a single-mode fiber-based common-path probe. , 2021, , .		0
12	Label-free multiphoton imaging allows brain tumor recognition based on texture analysis—a study of 382 tumor patients. Neuro-Oncology Advances, 2020, 2, vdaa035.	0.7	11
13	In Vivo Endoscopic Optical Coherence Tomography of the Healthy Human Oral Mucosa: Qualitative and Quantitative Image Analysis. Diagnostics, 2020, 10, 827.	2.6	14
14	Exogenous ethanol induces a metabolic switch that prolongs the survival of <i>Caenorhabditis elegans</i> dauer larva and enhances its resistance to desiccation. Aging Cell, 2020, 19, e13214.	6.7	11
15	Combined Brillouin and Raman system for biomedical applications. EPJ Web of Conferences, 2020, 238, 04007.	0.3	1
16	Endoscopic Optical Coherence Tomography for Evaluation of Success of Tympanoplasty. Otology and Neurotology, 2020, 41, e901-e905.	1.3	11
17	A metabolic switch regulates the transition between growth and diapause in C. elegans. BMC Biology, 2020, 18, 31.	3.8	47
18	Correlation between Lesion Progression and Depolarization Assessed by Polarization-Sensitive Optical Coherence Tomography. Applied Sciences (Switzerland), 2020, 10, 2971.	2.5	4

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19	Mapping of language and motor function during awake neurosurgery with intraoperative optical imaging. Neurosurgical Focus, 2020, 48, E3.	2.3	10
20	Motion blur suppression by using an optical derotator for deformation measurement of rotating components. , 2020, , .		1
21	High-dynamic-range areal profilometry using an imaging, dispersion-encoded low-coherence interferometer. Optics Express, 2020, 28, 17320.	3.4	7
22	Towards quantitative demineralization imaging for the assessment of carious lesions based on PS-OCT. EPJ Web of Conferences, 2020, 238, 04009.	0.3	3
23	Non-destructive testing of a rotating glass-fibre-reinforced polymer disc by swept source optical coherence tomography. EPJ Web of Conferences, 2020, 238, 06007.	0.3	1
24	lmaging birefringent tissue in the human tympanic membrane by polarization-sensitive optical coherence tomography. EPJ Web of Conferences, 2020, 238, 04008.	0.3	0
25	One-shot roughness measurements based on dispersion-encoded low coherence interferometry. , 2020, , .		Ο
26	Rapid Label-Free Analysis of Brain Tumor Biopsies by Near Infrared Raman and Fluorescence Spectroscopy—A Study of 209 Patients. Frontiers in Oncology, 2019, 9, 1165.	2.8	29
27	Label-free Imaging of Tissue Architecture during Axolotl Peripheral Nerve Regeneration in Comparison to Functional Recovery. Scientific Reports, 2019, 9, 12641.	3.3	3
28	Identification of distinctive features in human intracranial tumors by labelâ€free nonlinear multimodal microscopy. Journal of Biophotonics, 2019, 12, e201800465.	2.3	10
29	Spatially Resolved Cross-Linking Characterization by Imaging Low-Coherence Interferometry. Sensors, 2019, 19, 1152.	3.8	1
30	Structural Similarity Based Anatomical and Functional Brain Imaging Fusion. Lecture Notes in Computer Science, 2019, , 121-129.	1.3	9
31	Thin-film characterization with a dual-channel dispersion-encoded imaging low-coherence interferometry approach. , 2019, , .		1
32	Assessment of occlusal enamel alterations utilizing depolarization imaging based on PS-OCT. , 2019, , .		1
33	Depth-resolved birefringence imaging of collagen fiber organization in the human oral mucosa in vivo. Biomedical Optics Express, 2019, 10, 1942.	2.9	41
34	Optical Coherence Tomography for NDE. , 2019, , 469-511.		0
35	Qualitative image comparison between in vivo endoscopic optical coherence tomography and conventional histology of the healthy human oral mucosa. , 2019, , .		0
36	Endoscopic optical coherence tomography at the middle ear diagnostic. , 2019, , .		0

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37	Optical molecular imaging of corpora amylacea in human brain tissue. Biomedizinische Technik, 2018, 63, 579-585.	0.8	7
38	Optical Analysis of Glioma: Fourier-Transform Infrared Spectroscopy Reveals the <i>IDH1</i> Mutation Status. Clinical Cancer Research, 2018, 24, 2530-2538.	7.0	27
39	Experimental methods for flow and aerosol measurements in human airways and their replicas. European Journal of Pharmaceutical Sciences, 2018, 113, 95-131.	4.0	46
40	Cross-sectional and en-face depolarization imaging for the assessment of dental lesions. Current Directions in Biomedical Engineering, 2018, 4, 301-304.	0.4	3
41	Visualization of interfacial adhesive defects at dental restorations with spectral domain and polarization sensitive optical coherence tomography. Current Directions in Biomedical Engineering, 2018, 4, 559-562.	0.4	0
42	Imaging of the human tympanic membrane by endoscopic optical coherence tomography. Current Directions in Biomedical Engineering, 2018, 4, 305-308.	0.4	0
43	Molecular processes of corneal collagen cross-linking in keratoconus therapy. Current Directions in Biomedical Engineering, 2018, 4, 489-492.	0.4	1
44	Sexing of chicken eggs by fluorescence and Raman spectroscopy through the shell membrane. PLoS ONE, 2018, 13, e0192554.	2.5	47
45	Application of thermography for cerebral perfusion imaging during aneurysm surgery. Current Directions in Biomedical Engineering, 2018, 4, 29-32.	0.4	1
46	Intraoperative mapping of the sensory cortex by time-resolved thermal imaging. Biomedizinische Technik, 2018, 63, 567-572.	0.8	4
47	Application of optical and spectroscopic technologies for the characterization of carious lesions <i>in vitro</i> . Biomedizinische Technik, 2018, 63, 595-602.	0.8	8
48	IDH1 mutation in human glioma induces chemical alterations that are amenable to optical Raman spectroscopy. Journal of Neuro-Oncology, 2018, 139, 261-268.	2.9	35
49	Label-free multiphoton microscopy reveals relevant tissue changes induced by alginate hydrogel implantation in rat spinal cord injury. Scientific Reports, 2018, 8, 10841.	3.3	19
50	Optical Coherence Tomography for NDE. , 2018, , 1-44.		2
51	Detection of carious lesions utilizing depolarization imaging by polarization sensitive optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	30
52	In vivo imaging in the oral cavity by endoscopic optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	20
53	Endoscopic optical coherence tomography with wide field-of-view for the morphological and functional assessment of the human tympanic membrane. Journal of Biomedical Optics, 2018, 24, 1.	2.6	23
54	Assessing the efficacy of coherent anti‣tokes Raman scattering microscopy for the detection of infiltrating glioblastoma in fresh brain samples. Journal of Biophotonics, 2017, 10, 404-414.	2.3	28

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55	Framework for 2D-3D image fusion of infrared thermography with preoperative MRI. Biomedizinische Technik, 2017, 62, 599-607.	0.8	9
56	Labelâ€free multiphoton microscopy reveals altered tissue architecture in hippocampal sclerosis. Epilepsia, 2017, 58, e1-e5.	5.1	12
57	In ovo sexing of chicken eggs by fluorescence spectroscopy. Analytical and Bioanalytical Chemistry, 2017, 409, 1185-1194.	3.7	47
58	Contactless in ovo sex determination of chicken eggs. Current Directions in Biomedical Engineering, 2017, 3, 131-134.	0.4	11
59	Threeâ€Dimensional, Timeâ€Resolved Profiling of Ferroelectric Domain Wall Dynamics by Spectralâ€Domain Optical Coherence Tomography. Annalen Der Physik, 2017, 529, 1700139.	2.4	12
60	InÂvivo imaging of murine vasodynamics analyzing different mouse strains by optical coherence tomography. Atherosclerosis Supplements, 2017, 30, 311-318.	1.2	1
61	Functional and morphological imaging of the human tympanic membrane with endoscopic optical coherence tomography. Current Directions in Biomedical Engineering, 2017, 3, 99-101.	0.4	1
62	An intraoperative imaging system for neurosurgical thermography. , 2017, , .		5
63	Advanced analysis of domain walls in Mg doped LiNbO_3 crystals with high resolution OCT. Optics Express, 2017, 25, 14871.	3.4	13
64	Optical Coherence Tomography (OCT) for Time-Resolved Imaging of Alveolar Dynamics in Mechanically Ventilated Rats. Applied Sciences (Switzerland), 2017, 7, 287.	2.5	2
65	Improved Imaging of Magnetically Labeled Cells Using Rotational Magnetomotive Optical Coherence Tomography. Applied Sciences (Switzerland), 2017, 7, 444.	2.5	6
66	Variable stretch reduces the pro-inflammatory response of alveolar epithelial cells. PLoS ONE, 2017, 12, e0182369.	2.5	22
67	Flow Measurement by Lateral Resonant Doppler Optical Coherence Tomography in the Spectral Domain. Applied Sciences (Switzerland), 2017, 7, 382.	2.5	5
68	Measurement of lung tissue dynamics in artificially ventilated rats with optical coherence tomography. Current Directions in Biomedical Engineering, 2017, 3, 79-81.	0.4	0
69	Polarization sensitive optical coherence tomography utilizing a buffered swept source laser. Current Directions in Biomedical Engineering, 2017, 3, 227-230.	0.4	0
70	Optical Imaging. , 2017, , 403-490.		1
71	In vivo imaging of human oral hard and soft tissues by polarization-sensitive optical coherence tomography. Journal of Biomedical Optics, 2017, 22, 1.	2.6	17
72	Impact of a detector dead time in phase-resolved Doppler analysis using spectral domain optical coherence tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 241.	1.5	4

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73	3D handheld endoscope for optical coherence tomography of the human oral mucosa in vivo. , 2017, , .		1
74	Lateral resonant Doppler flow measurement by spectral domain optical coherence tomography. , 2017, , .		0
75	Author Response: Possibility of Cytoplasmic Transportation Between Donor–Host Cell Following Photoreceptor Transplantation. , 2016, 57, 5336.		0
76	Stem Cell–Derived Photoreceptor Transplants Differentially Integrate Into Mouse Models of Cone-Rod Dystrophy. , 2016, 57, 3509.		71
77	Doppler optical coherence tomography as a promising tool for detecting fluid in the human middle ear. Current Directions in Biomedical Engineering, 2016, 2, 443-447.	0.4	7
78	Cerebral cortex classification by conditional random fields applied to intraoperative thermal imaging. Current Directions in Biomedical Engineering, 2016, 2, 475-478.	0.4	2
79	In Ovo Sexing of Domestic Chicken Eggs by Raman Spectroscopy. Analytical Chemistry, 2016, 88, 8657-8663.	6.5	41
80	Improved non-invasive Optical Coherence Tomography detection of different engineered nanoparticles in food-mimicking matrices. Food Chemistry, 2016, 212, 571-575.	8.2	13
81	Inflammation-related alterations of lipids after spinal cord injury revealed by Raman spectroscopy. Journal of Biomedical Optics, 2016, 21, 061008.	2.6	10
82	NADPH oxidase 4 protects against development of endothelial dysfunction and atherosclerosis in LDL receptor deficient mice. European Heart Journal, 2016, 37, 1753-1761.	2.2	110
83	Label free molecular sexing of monomorphic birds using infrared spectroscopic imaging. Talanta, 2016, 150, 155-161.	5.5	5
84	Acute Lung Injury Causes Asynchronous Alveolar Ventilation That Can Be Corrected by Individual Sighs. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 396-406.	5.6	40
85	Biochemical Monitoring of Spinal Cord Injury by FT-IR Spectroscopy—Effects of Therapeutic Alginate Implant in Rat Models. PLoS ONE, 2015, 10, e0142660.	2.5	20
86	Endogenous Two-Photon Excited Fluorescence Provides Label-Free Visualization of the Inflammatory Response in the Rodent Spinal Cord. BioMed Research International, 2015, 2015, 1-9.	1.9	15
87	High Speed optische Kohäenztomografie als vielversprechendes Bildgebungsverfahren bei der Untersuchung des Blasensiedens. TM Technisches Messen, 2015, 82, 562-571.	0.7	0
88	Motion correction of thermographic images in neurosurgery. , 2015, , .		3
89	Imaging the tympanic membrane oscillation ex vivo with Doppler optical coherence tomography during simulated Eustachian catarrh. Proceedings of SPIE, 2015, , .	0.8	2
90	Raman-based imaging uncovers the effects of alginate hydrogel implants in spinal cord injury. Proceedings of SPIE, 2015, , .	0.8	1

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91	4D optical coherence tomography of aortic valve dynamics in a murine mouse model ex vivo. , 2015, , .		0
92	Imaging of nanoparticle-labeled stem cells using magnetomotive optical coherence tomography, laser speckle reflectometry, and light microscopy. Journal of Biomedical Optics, 2015, 20, 036018.	2.6	7
93	Visualization of dynamic boiling processes using high-speed optical coherence tomography. Experiments in Fluids, 2015, 56, 1.	2.4	5
94	Toward a comprehensive interpretation of intravital microscopy images in studies of lung tissue dynamics. Journal of Biomedical Optics, 2015, 20, 066009.	2.6	4
95	Optimal processing of Doppler signals in OCT. , 2015, , .		0
96	Raman-based imaging uncovers the effects of alginate hydrogel implants in spinal cord injury. , 2015, , .		2
97	Imaging the tympanic membrane oscillation ex vivo with Doppler optical coherence tomography during simulated Eustachian catarrh. , 2015, , .		1
98	4D optical coherence tomography of aortic valve dynamics in a murine mouse model ex vivo. , 2015, , .		0
99	Optimal processing of Doppler signals in OCT. , 2015, , .		0
100	Imaging of aortic valve dynamics in 4D OCT. Current Directions in Biomedical Engineering, 2015, 1, 254-256.	0.4	0
101	Intrinsic Indicator of Photodamage during Label-Free Multiphoton Microscopy of Cells and Tissues. PLoS ONE, 2014, 9, e110295.	2.5	69
102	14. Optische KohÄ r enztomographie. , 2014, , 471-504.		0
103	Heart valve stenosis in laser spotlights: Insights into a complex disease. Clinical Hemorheology and Microcirculation, 2014, 58, 65-75.	1.7	5
104	Towards a comprehensive eye model for zebrafish retinal imaging using full range spectral domain optical coherence tomography. Proceedings of SPIE, 2014, , .	0.8	2
105	Ex vivo 4D visualization of aortic valve dynamics in a murine model with optical coherence tomography. Biomedical Optics Express, 2014, 5, 4201.	2.9	5
106	Relation of joint spectral and time domain optical coherence tomography (jSTdOCT) and phase-resolved Doppler OCT. Optics Express, 2014, 22, 23129.	3.4	13
107	Investigation of the human tympanic membrane oscillation <i>ex vivo</i> by Doppler optical coherence tomography. Journal of Biophotonics, 2014, 7, 434-441.	2.3	30
108	Nonâ€linear optical microscopy of kidney tumours. Journal of Biophotonics, 2014, 7, 23-27.	2.3	29

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109	Intraoperative imaging of cortical perfusion by time-resolved thermography using cold bolus approach. , 2014, , .		0
110	Wavelet Subspace Analysis of Intraoperative Thermal Imaging for Motion Filtering. Lecture Notes in Computer Science, 2014, , 411-420.	1.3	7
111	Characterization of a Mouse Model With Complete RPE Loss and Its Use for RPE Cell Transplantation. , 2014, 55, 5431.		54
112	Label-free identification of the glioma stem-like cell fraction using Fourier-transform infrared spectroscopy. International Journal of Radiation Biology, 2014, 90, 710-717.	1.8	18
113	Simulating physiological interactions in a hybrid system of mathematical models. Journal of Clinical Monitoring and Computing, 2014, 28, 513-523.	1.6	11
114	Feasibility of non-invasive detection of engineered nanoparticles in food mimicking matrices by Optical Coherence Tomography. Food Chemistry, 2014, 153, 444-449.	8.2	9
115	Label-Free Delineation of Brain Tumors by Coherent Anti-Stokes Raman Scattering Microscopy in an Orthotopic Mouse Model and Human Glioblastoma. PLoS ONE, 2014, 9, e107115.	2.5	77
116	Motion correction of thermographic images in neurosurgery: Performance comparison. , 2014, , .		8
117	Fourâ€dimensional imaging of murine subpleural alveoli using highâ€speed optical coherence tomography. Journal of Biophotonics, 2013, 6, 148-152.	2.3	16
118	A new small-package super-continuum light source for optical coherence tomography. Proceedings of SPIE, 2013, , .	0.8	3
119	Chemical reactions between poly(carbonate) and poly(vinyl amine) thermally induced by a high magnetic field pulse. Polymer, 2013, 54, 6732-6738.	3.8	13
120	Highly sensitive time-resolved thermography and multivariate image analysis of the cerebral cortex for intrasurgical diagnostics. , 2013, , .		8
121	An advanced algorithm for dispersion encoded full range frequency domain optical coherence tomography. , 2013, , .		0
122	Vibration of the human tympanic membrane measured with OCT in a range between 0.4 kHz and 6.4 kHz on anex vivosample. , 2013, , .		0
123	Defense of fake fingerprint attacks using a swept source laser optical coherence tomography setup. Proceedings of SPIE, 2013, , .	0.8	10
124	Velocity noise reduction by using enhanced joint spectral and time domain optical coherence tomography. , 2013, , .		1
125	Four-dimensional optical coherence tomography imaging of total liquid ventilated rats. , 2013, , .		1

126 Fingerprint fake detection by optical coherence tomography. , 2013, , .

6

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127	Optical coherence tomography as a reference method for the detection of nanoparticles in thin-film polymer matrices. , 2013, , .		0
128	High-resolution optical coherence tomography in mouse models of genetic and induced retinal degeneration. , 2013, , .		1
129	Total liquid ventilation: a new approach to improve 3D OCT image quality of alveolar structures in lung tissue. Optics Express, 2013, 21, 31782.	3.4	12
130	Intraoperative optical imaging of intrinsic signals: a reliable method for visualizing stimulated functional brain areas during surgery. Journal of Neurosurgery, 2013, 119, 853-863.	1.6	25
131	CARS and non-linear microscopy imaging of brain tumors. Proceedings of SPIE, 2013, , .	0.8	5
132	Effects of tissue fixation on coherent anti-Stokes Raman scattering images of brain. Journal of Biomedical Optics, 2013, 19, 071402.	2.6	33
133	Evaluation of the clinical practicability of intraoperative optical imaging comparing three different camera setups. Biomedizinische Technik, 2013, 58, 237-48.	0.8	12
134	Magnetomotive imaging of iron oxide nanoparticles as cellular contrast agents for optical coherence tomography. Proceedings of SPIE, 2013, , .	0.8	3
135	Intraoperative optical imaging of functional brain areas for improved image-guided surgery. Biomedizinische Technik, 2013, 58, 225-36.	0.8	14
136	Assessment of visual function during brain surgery near the visual cortex by intraoperative optical imaging. Biomedizinische Technik, 2013, 58, 249-56.	0.8	7
137	Quantitative fluorescence angiography for neurosurgical interventions. Biomedizinische Technik, 2013, 58, 269-79.	0.8	5
138	3D Optical Coherence Tomography for Investigating Alveolar Structures During Total Liquid Ventilation. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	0
139	Intra-vital microscopy of lung tissue: A simulation based analysis of the image formation. , 2013, , .		1
140	Characterization of Light Lesion Paradigms and Optical Coherence Tomography as Tools to Study Adult Retina Regeneration in Zebrafish. PLoS ONE, 2013, 8, e80483.	2.5	32
141	Three-dimensional simultaneous optical coherence tomography and confocal fluorescence microscopy for investigation of lung tissue. Journal of Biomedical Optics, 2012, 17, 071310.	2.6	11
142	Endoscopic optical coherence tomography device for forward imaging with broad field of view. Journal of Biomedical Optics, 2012, 17, 1.	2.6	18
143	An advanced algorithm for dispersion encoded full range frequency domain optical coherence tomography. Optics Express, 2012, 20, 24925.	3.4	30
144	Hyperspectral imaging - A new modality for eye diagnostics. Biomedizinische Technik, 2012, 57, .	0.8	12

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145	Quantitative investigation of alveolar structures with OCT using total liquid ventilation during mechanical ventilation. Proceedings of SPIE, 2012, , .	0.8	2
146	Multimodal imaging of lung tissue using optical coherence tomography and two photon microscopy. Proceedings of SPIE, 2012, , .	0.8	1
147	A Hybrid Model of Interacting Physiological Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 290-294.	0.4	0
148	Resolution improvement in dual-band OCT by filling the spectral gap. Proceedings of SPIE, 2012, , .	0.8	1
149	Vibrational Spectroscopic Imaging and Multiphoton Microscopy of Spinal Cord Injury. Analytical Chemistry, 2012, 84, 8707-8714.	6.5	47
150	3D optical coherence tomography as new tool for microscopic investigations of nucleate boiling on heated surfaces. International Journal of Heat and Mass Transfer, 2012, 55, 5565-5569.	4.8	10
151	Label-free differentiation of human pituitary adenomas by FT-IR spectroscopic imaging. Analytical and Bioanalytical Chemistry, 2012, 403, 727-735.	3.7	9
152	Intraoperative imaging of cortical cerebral perfusion by time-resolved thermography and multivariate data analysis. Journal of Biomedical Optics, 2011, 16, 016001.	2.6	35
153	Infrared spectroscopic imaging of renal tumor tissue. Journal of Biomedical Optics, 2011, 16, 096006.	2.6	12
154	Investigation of alveolar tissue deformations using OCT combined with fluorescence microscopy. , 2011, , .		1
155	Characterization of cytochrome c as marker for retinal cell degeneration by uv/vis spectroscopic imaging. , 2011, , .		0
156	Axial resolution improvement by spectral data fusion in simultaneous dual-band optical coherence tomography. , 2011, , .		1
157	Enhanced joint spectral and time domain optical coherence tomography for quantitative flow velocity measurement. Proceedings of SPIE, 2011, , .	0.8	3
158	Improved OCT imaging of lung tissue using a prototype for total liquid ventilation. , 2011, , .		3
159	Non-invasive imaging and monitoring of rodent retina using simultaneous dual-band optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	3
160	Lateral resonant Doppler imaging for quantitative flow extraction in spectral domain optical coherence tomography. , 2011, , .		1
161	Optical coherence tomography and confocal fluorescence microscopy as a combined method for studying morphological changes in lung dynamics. Proceedings of SPIE, 2011, , .	0.8	0
162	Three-dimensional functional imaging of lung parenchyma using optical coherence tomography combined with confocal fluorescence microscopy. , 2011, , .		2

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163	Endoscopic optical coherence tomography for imaging the tympanic membrane. , 2011, , .		5
164	Evaluation of the atrophogenic potential of hydrocortisone 1% cream and pimecrolimus 1% cream in uninvolved forehead skin of patients with atopic dermatitis using optical coherence tomography. Experimental Dermatology, 2011, 20, 832-836.	2.9	44
165	Gender determination of fertilized unincubated chicken eggs by infrared spectroscopic imaging. Analytical and Bioanalytical Chemistry, 2011, 400, 2775-2782.	3.7	47
166	Intra-operative optical diagnostics with vibrational spectroscopy. Analytical and Bioanalytical Chemistry, 2011, 400, 2745-2753.	3.7	12
167	Optical coherence tomography in biomedical research. Analytical and Bioanalytical Chemistry, 2011, 400, 2721-2743.	3.7	51
168	Intravital microscopy of subpleural alveoli via transthoracic endoscopy. Journal of Biomedical Optics, 2011, 16, 046002.	2.6	10
169	Shear flow-induced optical inhomogeneity of blood assessed in vivo and in vitro by spectral domain optical coherence tomography in the 1.3 1¼m wavelength range. Journal of Biomedical Optics, 2011, 16, 116020.	2.6	56
170	Optical coherence tomography for imaging of subpleural alveolar structure using a Fourier domain mode locked laser. , 2011, , .		2
171	Endoscopic optical coherence tomography for imaging the tympanic membrane. , 2011, , .		2
172	Investigation of alveolar tissue deformations using OCT combined with fluorescence microscopy. , 2011, , .		0
173	Optical coherence tomography for imaging of subpleural alveolar structure using a Fourier domain mode locked laser. , 2011, , .		Ο
174	Enhanced joint spectral and time domain optical coherence tomography for quantitative flow velocity measurement. , 2011, , .		0
175	Improved OCT imaging of lung tissue using a prototype for total liquid ventilation. , 2011, , .		Ο
176	Axial resolution improvement by spectral data fusion in simultaneous dual-band optical coherence tomography. , 2011, , .		0
177	Bird sexing by Fourier transform infrared spectroscopy. Proceedings of SPIE, 2010, , .	0.8	Ο
178	Dynamic alveolar mechanics in acute lung injury. Critical Care Medicine, 2010, 38, 345.	0.9	24
179	Sexing of turkey poults by Fourier transform infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2010, 396, 465-470.	3.7	11
180	A novel adaptive control system for noisy pressure-controlled ventilation: a numerical simulation and bench test study. Intensive Care Medicine, 2010, 36, 164-168.	8.2	13

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181	Signal power decrease due to fringe washout as an extension of the limited Doppler flow measurement range in spectral domain optical coherence tomography. Journal of Biomedical Optics, 2010, 15, 041511.	2.6	13
182	Virtual four-dimensional imaging of lung parenchyma by optical coherence tomography in mice. Journal of Biomedical Optics, 2010, 15, 036016.	2.6	19
183	Investigations of the intravascular backscattering distribution of light in optical coherence tomography. Proceedings of SPIE, 2010, , .	0.8	0
184	The role of a detector dead time in phase-resolved Doppler analysis using spectral domain optical coherence tomography. , 2010, , .		0
185	Three-dimensional Fourier domain optical coherence tomography in vivo imaging of alveolar tissue in the intact thorax using the parietal pleura as a window. Journal of Biomedical Optics, 2010, 15, 016030.	2.6	33
186	Optical coherence tomography as approach for the minimal invasive localization of the germinal disc in ovo before chicken sexing. , 2010, , .		3
187	Combining optical coherence tomography with fluorescence microscopy: a closer look into tissue. Proceedings of SPIE, 2010, , .	0.8	1
188	Minimal invasive localization of the germinal disc in ovo for subsequent chicken sexing using optical coherence tomography. , 2010, , .		2
189	Regional lung aeration and ventilation during pressure support and biphasic positive airway pressure ventilation in experimental lung injury. Critical Care, 2010, 14, R34.	5.8	38
190	Quantifizierung von Flussgeschwindigkeiten mit dem Verfahren der Fourier Domain Optische KohäenztomografieFlow Velocity Quantification with Fourier Domain Optical Coherence Tomography. TM Technisches Messen, 2009, 76, 198-210.	0.7	0
191	Optical angiography from optical coherence tomograhy using a computational phase-shift. Proceedings of SPIE, 2009, , .	0.8	Ο
192	Simultaneous dual-band spectral domain optical coherence tomography using a supercontinuum laser light source. , 2009, , .		1
193	3D Fourier domain optical coherence tomography of post perfusion fixated ethanol-filled isolated rabbit lungs. , 2009, , .		Ο
194	Resonant Doppler imaging with common path OCT. Proceedings of SPIE, 2009, , .	0.8	2
195	Time-resolved blood flow measurement in the in vivo mouse model by optical frequency domain imaging. , 2009, , .		4
196	Simultaneous three-dimensional optical coherence tomography and intravital microscopy for imaging subpleural pulmonary alveoli in isolated rabbit lungs. Journal of Biomedical Optics, 2009, 14, 054020.	2.6	32
197	In-vivo Fourier domain optical coherence tomography as a new tool for investigation of vasodynamics in the mouse model. Journal of Biomedical Optics, 2009, 14, 034027.	2.6	8
198	Comparison of two in vivo microscopy techniques to visualize alveolar mechanics. Journal of Clinical Monitoring and Computing, 2009, 23, 323-332.	1.6	36

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199	Trends in Fourier transform infrared spectroscopic imaging. Analytical and Bioanalytical Chemistry, 2009, 394, 671-678.	3.7	59
200	Limits of Fourier domain Doppler-OCT at high velocities. Sensors and Actuators A: Physical, 2009, 156, 8-13.	4.1	24
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