

Chao Zhou

List of Publications by Year in descending order

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107
papers

5,582
citations

81900

39
h-index

79698

73
g-index

112
all docs

112
docs citations

112
times ranked

4579
citing authors

#	ARTICLE	IF	CITATIONS
1	Human colorectal cancer tissue assessment using optical coherence tomography catheter and deep learning. <i>Journal of Biophotonics</i> , 2022, 15, e202100349.	2.3	9
2	Longitudinal morphological and functional characterization of human heart organoids using optical coherence tomography. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114136.	10.1	22
3	Diagnostics of skin features through 3D skin mapping based on electro-controlled deposition of conducting polymers onto metal-sebum modified surfaces and their possible applications in skin treatment. <i>Analytica Chimica Acta</i> , 2021, 1142, 84-98.	5.4	0
4	Blood flow response to orthostatic challenge identifies signatures of the failure of static cerebral autoregulation in patients with cerebrovascular disease. <i>BMC Neurology</i> , 2021, 21, 154.	1.8	4
5	ELAC2/RNaseZ-linked cardiac hypertrophy in <i>Drosophila melanogaster</i> . <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	2.4	7
6	A Digitized Representation of the Modified Prandtl–Ishlinskii Hysteresis Model for Modeling and Compensating Piezoelectric Actuator Hysteresis. <i>Micromachines</i> , 2021, 12, 942.	2.9	10
7	Self-assembling human heart organoids for the modeling of cardiac development and congenital heart disease. <i>Nature Communications</i> , 2021, 12, 5142.	12.8	177
8	Optical Coherence Tomography in Biomedicine. , 2021, , 1-34.		0
9	Non-invasive red-light optogenetic control of <i>Drosophila</i> cardiac function. <i>Communications Biology</i> , 2020, 3, 336.	4.4	10
10	Nondestructive Characterization of Drying Processes of Colloidal Droplets and Latex Coats Using Optical Coherence Tomography. , 2020, , .		1
11	Optical coherence tomography image denoising using a generative adversarial network with speckle modulation. <i>Journal of Biophotonics</i> , 2020, 13, e201960135.	2.3	46
12	FlyNet 2.0: drosophila heart 3D (2D+time) segmentation in optical coherence microscopy images using a convolutional long short-term memory neural network. <i>Biomedical Optics Express</i> , 2020, 11, 1568.	2.9	13
13	Full-range space-division multiplexing optical coherence tomography angiography. <i>Biomedical Optics Express</i> , 2020, 11, 4817.	2.9	4
14	Wide-field ophthalmic space-division multiplexing optical coherence tomography. <i>Photonics Research</i> , 2020, 8, 539.	7.0	8
15	Space Division Optical Coherence Tomography Angiography. , 2020, , .		0
16	Bi-layer blood vessel mimicking microfluidic platform for antitumor drug screening based on co-culturing 3D tumor spheroids and endothelial layers. <i>Biomicrofluidics</i> , 2019, 13, 044108.	2.4	11
17	Fully Three-Dimensional Bioprinted Skin Equivalent Constructs with Validated Morphology and Barrier Function. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 334-343.	2.1	88
18	Computer-Aided Diagnosis of Label-Free 3-D Optical Coherence Microscopy Images of Human Cervical Tissue. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2447-2456.	4.2	28

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19	Longitudinal Morphological and Physiological Monitoring of Three-dimensional Tumor Spheroids Using Optical Coherence Tomography. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	3
20	Facile Tumor Spheroids Formation in Large Quantity with Controllable Size and High Uniformity. <i>Scientific Reports</i> , 2018, 8, 6837.	3.3	44
21	Integrating optical coherence tomography with gravimetric and video analysis (OCT-Gravimetry-Video) Tj ETQq1 1 0.784314 ggBT /Over	3.3	3
22	Ultrahigh-resolution optical coherence microscopy accurately classifies precancerous and cancerous human cervix free of labeling. <i>Theranostics</i> , 2018, 8, 3099-3110.	10.0	25
23	Segmentation of <i>Drosophila</i> heart in optical coherence microscopy images using convolutional neural networks. <i>Journal of Biophotonics</i> , 2018, 11, e201800146.	2.3	11
24	High-throughput Optical Coherence Tomography Imaging for Drug Screening with 3D Tumor Spheroids. , 2018, , .		0
25	Ultrahigh-Speed Optical Coherence Tomography and its Applications. , 2018, , .		0
26	Ultrahigh Resolution Optical Coherence Microscopy for Cervical Cancer Diagnosis. , 2018, , .		0
27	Integrated local binary pattern texture features for classification of breast tissue imaged by optical coherence microscopy. <i>Medical Image Analysis</i> , 2017, 38, 104-116.	11.6	41
28	Deposition and drying dynamics of liquid crystal droplets. <i>Nature Communications</i> , 2017, 8, 15642.	12.8	66
29	Optical Coherence Tomography Detects Necrotic Regions and Volumetrically Quantifies Multicellular Tumor Spheroids. <i>Cancer Research</i> , 2017, 77, 6011-6020.	0.9	68
30	Wide-field high-speed space-division multiplexing optical coherence tomography using an integrated photonic device. <i>Biomedical Optics Express</i> , 2017, 8, 3856.	2.9	26
31	Label-Free Imaging of Eosinophilic Esophagitis Mouse Models Using Optical Coherence Tomography. <i>Methods in Molecular Biology</i> , 2016, 1422, 127-136.	0.9	2
32	Drosophila Preparation and Longitudinal Imaging of Heart Function In Vivo Using Optical Coherence Microscopy (OCM). <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	14
33	Optical Coherence Tomography for Brain Imaging and Developmental Biology. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 1-13.	2.9	48
34	An Integrated Optical Coherence Microscopy Imaging and Optical Stimulation System for Optogenetic Pacing in <i>Drosophila melanogaster</i> . , 2016, , .		0
35	Spoke-LBP and ring-LBP: New texture features for tissue classification. , 2015, , .		12
36	Optogenetic pacing in <i>Drosophila melanogaster</i> . <i>Science Advances</i> , 2015, 1, e1500639.	10.3	50

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37	Optical Coherence Microscopy. , 2015, , 865-911.		7
38	A Circadian Clock Gene, Cry, Affects Heart Morphogenesis and Function in Drosophila as Revealed by Optical Coherence Microscopy. PLoS ONE, 2015, 10, e0137236.	2.5	24
39	Endoscopic Optical Coherence Tomography. , 2015, , 2077-2108.		1
40	Nondestructive evaluation of progressive neuronal changes in organotypic rat hippocampal slice cultures using ultrahigh-resolution optical coherence microscopy. Neurophotonics, 2014, 1, 1.	3.3	24
41	Characterization of eosinophilic esophagitis murine models using optical coherence tomography. Biomedical Optics Express, 2014, 5, 609.	2.9	10
42	Label-free evaluation of angiogenic sprouting in microengineered devices using ultrahigh-resolution optical coherence microscopy. Journal of Biomedical Optics, 2014, 19, 1.	2.6	15
43	OCM image texture analysis for tissue classification. , 2014, , .		2
44	Thymic stromal lymphopoietin-elicited basophil responses promote eosinophilic esophagitis. Nature Medicine, 2013, 19, 1005-1013.	30.7	351
45	Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology. Biomedical Optics Express, 2013, 4, 1119.	2.9	116
46	Space-division multiplexing optical coherence tomography. Optics Express, 2013, 21, 19219.	3.4	36
47	Diffuse optical characterization of an exercising patient group with peripheral artery disease. Journal of Biomedical Optics, 2013, 18, 057007.	2.6	27
48	Silencing of the Drosophila ortholog of SOX5 in heart leads to cardiac dysfunction as detected by optical coherence tomography. Human Molecular Genetics, 2013, 22, 3798-3806.	2.9	28
49	Delineating 3D Angiogenic Sprouting in OCT Images via Multiple Active Contours. Lecture Notes in Computer Science, 2013, , 231-240.	1.3	3
50	Comparison of Tissue Architectural Changes between Radiofrequency Ablation and Cryospray Ablation in Barrett's Esophagus Using Endoscopic Three-Dimensional Optical Coherence Tomography. Gastroenterology Research and Practice, 2012, 2012, 1-8.	1.5	19
51	Improved Detection Sensitivity of Line-Scanning Optical Coherence Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1094-1099.	2.9	12
52	One-step continuous synthesis of biocompatible gold nanorods for optical coherence tomography. Chemical Communications, 2012, 48, 6654.	4.1	47
53	Structural markers observed with endoscopic 3-dimensional optical coherence tomography correlating with Barrett's esophagus radiofrequency ablation treatment response (with videos). Gastrointestinal Endoscopy, 2012, 76, 1104-1112.	1.0	63
54	Integrated Optical Coherence Tomography and Optical Coherence Microscopy Imaging of Ex Vivo Human Renal Tissues. Journal of Urology, 2012, 187, 691-699.	0.4	34

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55	Three-dimensional endoscopic optical coherence tomography imaging of cervical inlet patch. <i>Gastrointestinal Endoscopy</i> , 2012, 75, 675-677.	1.0	11
56	Characterization of buried glands before and after radiofrequency ablation by using 3-dimensional optical coherence tomography (with videos). <i>Gastrointestinal Endoscopy</i> , 2012, 76, 32-40.	1.0	117
57	Cervical inlet patch-optical coherence tomography imaging and clinical significance. <i>World Journal of Gastroenterology</i> , 2012, 18, 2502.	3.3	15
58	Piezoelectric-transducer-based miniature catheter for ultrahigh-speed endoscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2011, 2, 2438.	2.9	31
59	Piezoelectric transducer based miniature catheter for ultrahigh speed endoscopic optical coherence tomography. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
60	Changes in the Expression of the Alzheimers Disease-Associated Presenilin Gene in Drosophila Heart Leads to Cardiac Dysfunction. <i>Current Alzheimer Research</i> , 2011, 8, 313-322.	1.4	30
61	Blood flow dynamics of one cardiac cycle and relationship to mechanotransduction and trabeculation during heart looping. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H879-H891.	3.2	56
62	Direct measurement of tissue blood flow and metabolism with diffuse optics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4390-4406.	3.4	151
63	Noninvasive Measurement of Cerebral Blood Flow and Blood Oxygenation Using Near-Infrared and Diffuse Correlation Spectroscopies in Critically Brain-Injured Adults. <i>Neurocritical Care</i> , 2010, 12, 173-180.	2.4	255
64	The effects of healthy aging on cerebral hemodynamic responses to posture change. <i>Physiological Measurement</i> , 2010, 31, 477-495.	2.1	60
65	Integrated Optical Coherence Tomography and Microscopy for <i>Ex Vivo</i> Multiscale Evaluation of Human Breast Tissues. <i>Cancer Research</i> , 2010, 70, 10071-10079.	0.9	98
66	Endoscopic 3D-OCT reveals buried glands following radiofrequency ablation of Barrett's esophagus. , 2010, , .		0
67	Multiscale imaging of human thyroid pathologies using integrated optical coherence tomography (OCT) and optical coherence microscopy (OCM). , 2010, , .		1
68	Ex vivo imaging of human thyroid pathology using integrated optical coherence tomography and optical coherence microscopy. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	2.6	35
69	Optical measurement of cerebral hemodynamics and oxygen metabolism in neonates with congenital heart defects. <i>Journal of Biomedical Optics</i> , 2010, 15, 037004.	2.6	157
70	Frequency comb swept lasers for optical coherence tomography. , 2010, , .		1
71	Integrated optical coherence tomography and optical coherence microscopy imaging of human pathology. , 2010, , .		0
72	Reply to Pouw et al.. <i>Endoscopy</i> , 2010, 42, 180-181.	1.8	5

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73	High speed optical coherence microscopy with autofocus adjustment and a miniaturized endoscopic imaging probe. Optics Express, 2010, 18, 4222.	3.4	60
74	Photothermal optical coherence tomography in ex vivo human breast tissues using gold nanoshells. Optics Letters, 2010, 35, 700.	3.3	86
75	Effective treatment of chronic radiation proctitis using radiofrequency ablation. Therapeutic Advances in Gastroenterology, 2009, 2, 149-156.	3.2	80
76	Three-dimensional optical coherence tomography of Barrett's esophagus and buried glands beneath neosquamous epithelium following radiofrequency ablation. Endoscopy, 2009, 41, 773-776.	1.8	70
77	Diffuse optical monitoring of hemodynamic changes in piglet brain with closed head injury. Journal of Biomedical Optics, 2009, 14, 034015.	2.6	162
78	Characterization of periinfarct flow transients with laser speckle and Doppler after middle cerebral artery occlusion in the rat. Journal of Neuroscience Research, 2009, 87, 1219-1229.	2.9	33
79	Three-dimensional endomicroscopy of the human colon using optical coherence tomography. Optics Express, 2009, 17, 784.	3.4	139
80	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. Optics Express, 2009, 17, 3884.	3.4	149
81	Cerebral hemodynamics in preterm infants during positional intervention measured with diffuse correlation spectroscopy and transcranial Doppler ultrasound. Optics Express, 2009, 17, 12571.	3.4	159
82	Frequency comb swept lasers. Optics Express, 2009, 17, 21257.	3.4	47
83	Ex vivo imaging of human pathologies with integrated optical coherence tomography (OCT) and optical coherence microscopy (OCM). Proceedings of SPIE, 2009, , .	0.8	0
84	Acute Functional Recovery of Cerebral Blood Flow after Forebrain Ischemia in Rat. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1275-1284.	4.3	27
85	Diffuse Optical Monitoring of Cerebral Oxygen Metabolism at the Bed-Side in Cerebrovascular Disorders. , 2008, , .		3
86	Non-invasive Measurement of Cerebral Autoregulation of Acute Ischemic Stroke Patients with Diffuse Correlation/Wave Spectroscopy. , 2008, , .		0
87	In Vivo Breast Cancer Characterization and Therapy Monitoring using Diffuse Optical Methods based on Endogenous Optical/Exogenous Fluorescence Contrast. , 2008, , .		0
88	Diffuse optical monitoring of blood flow and oxygenation in human breast cancer during early stages of neoadjuvant chemotherapy. Journal of Biomedical Optics, 2007, 12, 051903.	2.6	169
89	Validation of diffuse correlation spectroscopy for muscle blood flow with concurrent arterial spin labeled perfusion MRI. Optics Express, 2007, 15, 1064.	3.4	198
90	Hemodynamic responses to antivasular therapy and ionizing radiation assessed by diffuse optical spectroscopies. Optics Express, 2007, 15, 15507.	3.4	51

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91	Noninvasive diffuse optical measurement of blood flow and blood oxygenation for monitoring radiation therapy in patients with head and neck tumors: a pilot study. Journal of Biomedical Optics, 2006, 11, 064021.	2.6	112
92	Diffuse optical correlation tomography of cerebral blood flow during cortical spreading depression in rat brain. Optics Express, 2006, 14, 1125.	3.4	197
93	Real-time In Situ Monitoring of Human Prostate Photodynamic Therapy with Diffuse Light. Photochemistry and Photobiology, 2006, 82, 1279.	2.5	102
94	Real-time Monitoring of Hemodynamic Changes in Neonatal Pig Brain with Head Trauma Injury. , 2006, , .		2
95	Noise Model for Laser Speckle Contrast Imaging. , 2006, , .		0
96	Neoadjuvant Chemotherapy Monitoring with Diffuse Optical Measurement of Blood Flow in Breast Tumors. , 2006, , .		0
97	Noninvasive Monitoring of Murine Tumor Blood Flow During and After Photodynamic Therapy Provides Early Assessment of Therapeutic Efficacy. Clinical Cancer Research, 2005, 11, 3543-3552.	7.0	213
98	Diffuse optical measurement of blood flow in breast tumors. Optics Letters, 2005, 30, 2915.	3.3	143
99	Time-dependent blood flow and oxygenation in human skeletal muscles measured with noninvasive near-infrared diffuse optical spectroscopies. Journal of Biomedical Optics, 2005, 10, 024027.	2.6	192
100	Diffuse optical measurement of cerebral metabolic rate of oxygen in adult brain. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S412-S412.	4.3	0
101	Development of diffuse correlation techniques for non-invasive measurement of cerebral blood flow and oxygen metabolism in rats. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S413-S413.	4.3	0
102	Spatiotemporal Quantification of Cerebral Blood Flow during Functional Activation in Rat Somatosensory Cortex using Laser-Speckle Flowmetry. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 518-525.	4.3	163
103	Diffuse optical measurement of blood flow, blood oxygenation, and metabolism in a human brain during sensorimotor cortex activation. Optics Letters, 2004, 29, 1766.	3.3	311
104	Optimizing image reconstruction of tissue blood flow by diffuse correlation tomography. , 2003, , .		0
105	Hemodynamic measurements in rat brain and human muscle using diffuse near-infrared absorption and correlation spectroscopies. , 2003, , .		3
106	Quantification of muscle oxygenation and flow of healthy volunteers during cuff occlusion of arm and leg flexor muscles and plantar flexion exercise. , 2003, , .		2
107	Noninvasive monitoring hemodynamic responses in RIF tumors during and after PDT. , 2003, , .		3