Ruikang K Wang

List of Publications by Year
in descending order

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		10389	20358
752	22,574	72	116
papers	citations	h-index	g-index

769	769	769	11548
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical coherence tomography angiography: A comprehensive review of current methods and clinical applications. Progress in Retinal and Eye Research, 2017, 60, 66-100.	15.5	675
2	Three dimensional optical angiography. Optics Express, 2007, 15, 4083.	3.4	632
3	Theory, developments and applications of optical coherence tomography. Journal Physics D: Applied Physics, 2005, 38, 2519-2535.	2.8	529
4	Quantifying Microvascular Density and Morphology in Diabetic Retinopathy Using Spectral-Domain Optical Coherence Tomography Angiography. , 2016, 57, OCT362.		408
5	Depth-resolved imaging of capillary networks in retina and choroid using ultrahigh sensitive optical microangiography. Optics Letters, 2010, 35, 1467.	3.3	350
6	Optical coherence tomography based angiography [Invited]. Biomedical Optics Express, 2017, 8, 1056.	2.9	342
7	Ultrahigh sensitive optical microangiography for in vivo imaging of microcirculations within human skin tissue beds. Optics Express, 2010, 18, 8220.	3.4	310
8	In vivo volumetric imaging of vascular perfusion within human retina and choroids with optical micro-angiography. Optics Express, 2008, 16, 11438.	3.4	303
9	Methods and algorithms for optical coherence tomography-based angiography: a review and comparison. Journal of Biomedical Optics, 2015, 20, 100901.	2.6	300
10	Optical Coherence Tomography Angiography of Asymptomatic Neovascularization in Intermediate Age-Related Macular Degeneration. Ophthalmology, 2016, 123, 1309-1319.	5.2	230
11	Quantitative assessment of the retinal microvasculature using optical coherence tomography angiography. Journal of Biomedical Optics, 2016, 21, 066008.	2.6	225
12	Doppler optical micro-angiography for volumetric imaging of vascular perfusion in vivo. Optics Express, 2009, 17, 8926.	3.4	219
13	A Novel Strategy for Quantifying Choriocapillaris Flow Voids Using Swept-Source OCT Angiography. , 2018, 59, 203.		219
14	Determining elastic properties of skin by measuring surface waves from an impulse mechanical stimulus using phase-sensitive optical coherence tomography. Journal of the Royal Society Interface, 2012, 9, 831-841.	3.4	217
15	Random phase encoding for optical security. Optical Engineering, 1996, 35, 2464.	1.0	192
16	Concurrent enhancement of imaging depth and contrast for optical coherence tomography by hyperosmotic agents. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 948.	2.1	187
17	Swept-Source OCT Angiography of the Retinal Vasculature Using Intensity Differentiation-based Optical Microangiography Algorithms. Ophthalmic Surgery Lasers and Imaging Retina, 2014, 45, 382-389.	0.7	183
18	Comparison Between Spectral-Domain and Swept-Source Optical Coherence Tomography Angiographic Imaging of Choroidal Neovascularization. , 2017, 58, 1499.		178

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19	A differentially amplified motion in the ear for near-threshold sound detection. Nature Neuroscience, 2011, 14, 770-774.	14.8	168
20	Phase-sensitive optical coherence elastography for mapping tissue microstrains in real time. Applied Physics Letters, 2007, 90, 164105.	3.3	165
21	Natural History of Subclinical Neovascularization in Nonexudative Age-Related Macular Degeneration Using Swept-Source OCT Angiography. Ophthalmology, 2018, 125, 255-266.	5.2	165
22	Minimizing projection artifacts for accurate presentation of choroidal neovascularization in OCT micro-angiography. Biomedical Optics Express, 2015, 6, 4130.	2.9	157
23	Optical coherence elastography in ophthalmology. Journal of Biomedical Optics, 2017, 22, 1.	2.6	154
24	Quantifying Optical Microangiography Images Obtained from a Spectral Domain Optical Coherence Tomography System. International Journal of Biomedical Imaging, 2012, 2012, 1-11.	3.9	149
25	Dynamic optical coherence tomography in studies of optical clearing, sedimentation, and aggregation of immersed blood. Applied Optics, 2002, 41, 258.	2.1	145
26	Tissue Doppler optical coherence elastography for real time strain rate and strain mapping of soft tissue. Applied Physics Letters, 2006, 89, 144103.	3.3	144
27	Signal degradation by multiple scattering in optical coherence tomography of dense tissue: a Monte Carlo study towards optical clearing of biotissues. Physics in Medicine and Biology, 2002, 47, 2281-2299.	3.0	142
28	OCT-based elastography for large and small deformations. Optics Express, 2006, 14, 11585.	3.4	140
29	Quantifying Retinal Microvascular Changes in Uveitis Using Spectral-Domain Optical Coherence Tomography Angiography. American Journal of Ophthalmology, 2016, 171, 101-112.	3.3	140
30	Statistics of local speckle contrast. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 9.	1.5	135
31	In vivo full range complex Fourier domain optical coherence tomography. Applied Physics Letters, 2007, 90, 054103.	3.3	133
32	Mapping of cerebro-vascular blood perfusion in mice with skin and skull intact by Optical Micro-AngioGraphy at 13Âµm wavelength. Optics Express, 2007, 15, 11402.	3.4	128
33	Use of a scanner to modulate spatial interferograms for in vivo full-range Fourier-domain optical coherence tomography. Optics Letters, 2007, 32, 3423.	3.3	126
34	Propylene glycol as a contrasting agent for optical coherence tomography to image gastrointestinal tissues. Lasers in Surgery and Medicine, 2002, 30, 201-208.	2.1	122
35	Optical Microangiography: A Label-Free 3-D Imaging Technology to Visualize and Quantify Blood Circulations Within Tissue Beds In Vivo. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 545-554.	2.9	122
36	Peripapillary Retinal Nerve Fiber Layer Vascular Microcirculation in Glaucoma Using Optical Coherence Tomographyâ€“Based Microangiography. , 2016, 57, OCT475.		120

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37	User-guided segmentation for volumetric retinal optical coherence tomography images. Journal of Biomedical Optics, 2014, 19, 086020.	2.6	117
38	Phase-sensitive optical coherence tomography imaging of the tissue motion within the organ of Corti at a subnanometer scale: a preliminary study. Journal of Biomedical Optics, 2010, 15, 056005.	2.6	115
39	Wide-field optical coherence tomography based microangiography for retinal imaging. Scientific Reports, 2016, 6, 22017.	3.3	110
40	Chitosan Microchannel Scaffolds for Tendon Tissue Engineering Characterized Using Optical Coherence Tomography. Tissue Engineering, 2007, 13, 323-331.	4.6	109
41	Optic Disc Perfusion in Primary Open Angle and Normal Tension Glaucoma Eyes Using Optical Coherence Tomography-Based Microangiography. PLoS ONE, 2016, 11, e0154691.	2.5	109
42	Age-dependent Changes in the Macular Choriocapillaris of Normal Eyes Imaged With Swept-Source Optical Coherence Tomography Angiography. American Journal of Ophthalmology, 2019, 200, 110-122.	3.3	108
43	High speed spectral domain optical coherence tomography for retinal imaging at 500,000 Aâ€lines per second. Biomedical Optics Express, 2011, 2, 2770.	2.9	106
44	Noncontact all-optical measurement of corneal elasticity. Optics Letters, 2012, 37, 1625.	3.3	106
45	Modelling optical properties of soft tissue by fractal distribution of scatterers. Journal of Modern Optics, 2000, 47, 103-120.	1.3	105
46	Swept-Source OCT Angiography of Macular Telangiectasia Type 2. Ophthalmic Surgery Lasers and Imaging Retina, 2014, 45, 369-380.	0.7	105
47	Investigation of optical coherence tomography as an imaging modality in tissue engineering. Physics in Medicine and Biology, 2006, 51, 1649-1659.	3.0	104
48	Tracking mechanical wave propagation within tissue using phase-sensitive optical coherence tomography: motion artifact and its compensation. Journal of Biomedical Optics, 2013, 18, 121505.	2.6	104
49	Quantitative elastography provided by surface acoustic waves measured by phase-sensitive optical coherence tomography. Optics Letters, 2012, 37, 722.	3.3	103
50	Acoustic micro-tapping for non-contact 4D imaging of tissue elasticity. Scientific Reports, 2016, 6, 38967.	3.3	102
51	Patterned human microvascular grafts enable rapid vascularization and increase perfusion in infarcted rat hearts. Nature Communications, 2019, 10, 584.	12.8	100
52	Dynamic optical clearing effect of tissue impregnated with hyperosmotic agents and studied with optical coherence tomography. Journal of Biomedical Optics, 2004, 9, 200.	2.6	99
53	Projection Artifact Removal Improves Visualization and Quantitation of Macular Neovascularization Imaged by Optical Coherence Tomography Angiography. Ophthalmology Retina, 2017, 1, 124-136.	2.4	99
54	Noncontact photoacoustic imaging achieved by using a low-coherence interferometer as the acoustic detector. Optics Letters, 2011, 36, 3975.	3.3	97

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55	SWEPT SOURCE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY OF NEOVASCULAR MACULAR TELANGIECTASIA TYPE 2. Retina, 2015, 35, 2285-2299.	1.7	97
56	Automated Quantitation of Choroidal Neovascularization: A Comparison Study Between Spectral-Domain and Swept-Source OCT Angiograms. , 2017, 58, 1506.		95
57	Peripapillary Retinal Nerve Fiber Layer Vascular Microcirculation in Eyes With Glaucoma and Single-Hemifield Visual Field Loss. JAMA Ophthalmology, 2017, 135, 461.	2.5	94
58	Eigendecomposition-Based Clutter Filtering Technique for Optical Microangiography. IEEE Transactions on Biomedical Engineering, 2011, 58, 2316-2323.	4.2	93
59	Three-Dimensional High-Resolution Imaging of Gold Nanorods Uptake in Sentinel Lymph Nodes. Nano Letters, 2011, 11, 2938-2943.	9.1	93
60	Using ultrahigh sensitive optical microangiography to achieve comprehensive depth resolved microvasculature mapping for human retina. Journal of Biomedical Optics, 2011, 16, 106013.	2.6	90
61	Correlations between Choriocapillaris Flow Deficits around Geographic Atrophy and Enlargement Rates Based on Swept-Source OCT Imaging. Ophthalmology Retina, 2019, 3, 478-488.	2.4	90
62	Elastic properties of soft tissue-mimicking phantoms assessed by combined use of laser ultrasonics and low coherence interferometry. Optics Express, 2011, 19, 10153.	3.4	89
63	Shear modulus imaging by direct visualization of propagating shear waves with phase-sensitive optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 1.	2.6	88
64	Wide-field imaging of retinal vasculature using optical coherence tomography-based microangiography provided by motion tracking. Journal of Biomedical Optics, 2015, 20, 066008.	2.6	87
65	Impact of intraocular pressure on changes of blood flow in the retina, choroid, and optic nerve head in rats investigated by optical microangiography. Biomedical Optics Express, 2012, 3, 2220.	2.9	86
66	Age-Related Changes in Choroidal Thickness and the Volume of Vessels and Stroma Using Swept-Source OCT and Fully Automated Algorithms. Ophthalmology Retina, 2020, 4, 204-215.	2.4	86
67	Changes in wall motion and blood flow in the outflow tract of chick embryonic hearts observed with optical coherence tomography after outflow tract banding and vitelline-vein ligation. Physics in Medicine and Biology, 2008, 53, 5077-5091.	3.0	85
68	High-resolution wide-field imaging of retinal and choroidal blood perfusion with optical microangiography. Journal of Biomedical Optics, 2010, 15, 026011.	2.6	85
69	A practical approach to eliminate autocorrelation artefacts for volume-rate spectral domain optical coherence tomography. Physics in Medicine and Biology, 2006, 51, 3231-3239.	3.0	80
70	Review of optical coherence tomography based angiography in neuroscience. Neurophotonics, 2016, 3, 010902.	3.3	80
71	Quantitative microvascular analysis of retinal venous occlusions by spectral domain optical coherence tomography angiography. PLoS ONE, 2017, 12, e0176404.	2.5	79
72	Real-time flow imaging by removing texture pattern artifacts in spectral-domain optical Doppler tomography. Optics Letters, 2006, 31, 3001.	3.3	78

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73	Conditional Ablation of Neuroprogenitor Cells in Adult Mice Impedes Recovery of Poststroke Cognitive Function and Reduces Synaptic Connectivity in the Perforant Pathway. Journal of Neuroscience, 2013, 33, 17314-17325.	3.6	78
74	Long-range and wide field of view optical coherence tomography for in vivo 3D imaging of large volume object based on akinetic programmable swept source. Biomedical Optics Express, 2016, 7, 4734.	2.9	78
75	Comparing the synergistic effects of oleic acid and dimethyl sulfoxide as vehicles for optical clearing of skin tissuein vitro. Physics in Medicine and Biology, 2004, 49, 5283-5294.	3.0	77
76	Imaging the mechanical stiffness of skin lesions by in vivo acousto-optical elastography. Optics Express, 2006, 14, 9770.	3.4	76
77	Pulsatile motion of the trabecular meshwork in healthy human subjects quantified by phase-sensitive optical coherence tomography. Biomedical Optics Express, 2013, 4, 2051.	2.9	76
78	Optical coherence tomography angiography of normal skin and inflammatory dermatologic conditions. Lasers in Surgery and Medicine, 2018, 50, 183-193.	2.1	75
79	The potential of optical coherence tomography in the engineering of living tissue. Physics in Medicine and Biology, 2004, 49, 1097-1115.	3.0	74
80	Quantification of Choriocapillaris with Phansalkar Local Thresholding: Pitfalls to Avoid. American Journal of Ophthalmology, 2020, 213, 161-176.	3.3	74
81	In vivo volumetric imaging of microcirculation within human skin under psoriatic conditions using optical microangiography. Lasers in Surgery and Medicine, 2011, 43, 122-129.	2.1	73
82	Epoxyeicosanoids as mediators of neurogenic vasodilation in cerebral vessels. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1352-H1363.	3.2	72
83	Transplantation of Human Embryonic Stem Cell-Derived Retinal Cells into the Subretinal Space of a Non-Human Primate. Translational Vision Science and Technology, 2017, 6, 4.	2.2	72
84	Guidelines for Imaging the Choriocapillaris Using OCT Angiography. American Journal of Ophthalmology, 2021, 222, 92-101.	3.3	72
85	Effect of dextran-induced changes in refractive index and aggregation on optical properties of whole blood. Physics in Medicine and Biology, 2003, 48, 1205-1221.	3.0	71
86	Autocorrelation optical coherence tomography for mapping transverse particle-flow velocity. Optics Letters, 2010, 35, 3538.	3.3	71
87	Volumetric and quantitative imaging of retinal blood flow in rats with optical microangiography. Biomedical Optics Express, 2011, 2, 579.	2.9	71
88	Role of Soluble Epoxide Hydrolase in the Sex-Specific Vascular Response to Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1475-1481.	4.3	70
89	Accurate estimation of choriocapillaris flow deficits beyond normal intercapillary spacing with swept source OCT angiography. Quantitative Imaging in Medicine and Surgery, 2018, 8, 658-666.	2.0	69
90	Aging-associated changes in cerebral vasculature and blood flow as determined by quantitative optical coherence tomography angiography. Neurobiology of Aging, 2018, 70, 148-159.	3.1	68

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91	Visualizing ultrasonically induced shear wave propagation using phase-sensitive optical coherence tomography for dynamic elastography. Optics Letters, 2014, 39, 838.	3.3	67
92	Synergistic effect of hyperosmotic agents of dimethyl sulfoxide and glycerol on optical clearing of gastric tissue studied with near infrared spectroscopy. Physics in Medicine and Biology, 2004, 49, 457-468.	3.0	66
93	Estimating Human Trabecular Meshwork Stiffness by Numerical Modeling and Advanced OCT Imaging. , 2017, 58, 4809.		66
94	Improved microcirculation imaging of human skinin vivousing optical microangiography with a correlation mapping mask. Journal of Biomedical Optics, 2014, 19, 036010.	2.6	65
95	Ultra-wide optical coherence tomography angiography in diabetic retinopathy. Quantitative Imaging in Medicine and Surgery, 2018, 8, 743-753.	2.0	65
96	Determination of flow velocity vector based on Doppler shift and spectrum broadening with optical coherence tomography. Optics Letters, 2003, 28, 1227.	3.3	64
97	Quantification of Choriocapillaris with Optical Coherence Tomography Angiography: A Comparison Study. American Journal of Ophthalmology, 2019, 208, 111-123.	3.3	64
98	Spectral domain polarization sensitive optical coherence tomography achieved by single camera detection. Optics Express, 2007, 15, 7950.	3.4	62
99	Optic nerve head perfusion in normal eyes and eyes with glaucoma using optical coherence tomography-based microangiography. Quantitative Imaging in Medicine and Surgery, 2016, 6, 125-133.	2.0	61
100	Generating retinal flow maps from structural optical coherence tomography with artificial intelligence. Scientific Reports, 2019, 9, 5694.	3.3	61
101	Microvascular imaging of the skin. Physics in Medicine and Biology, 2019, 64, 07TR01.	3.0	61
102	Nearly-incompressible transverse isotropy (NITI) of cornea elasticity: modelÂand experiments with acoustic micro-tapping OCE. Scientific Reports, 2020, 10, 12983.	3.3	60
103	4D optical coherence tomography-based micro-angiography achieved by 16-MHz FDML swept source. Optics Letters, 2015, 40, 1779.	3.3	59
104	Detection and characterisation of biopsy tissue using quantitative optical coherence elastography (OCE) in men with suspected prostate cancer. Cancer Letters, 2015, 357, 121-128.	7.2	59
105	Aqueous outflow regulation: Optical coherence tomography implicates pressure-dependent tissue motion. Experimental Eye Research, 2017, 158, 171-186.	2.6	59
106	The role of water desorption on optical clearing of biotissue: Studied with near infrared reflectance spectroscopy. Medical Physics, 2003, 30, 1246-1253.	3.0	57
107	Efficient postacquisition synchronization of 4-D nongated cardiac images obtained from optical coherence tomography: application to 4-D reconstruction of the chick embryonic heart. Journal of Biomedical Optics, 2009, 14, 1.	2.6	57
108	Two-Year Risk of Exudation in Eyes with Nonexudative Age-Related Macular Degeneration and Subclinical Neovascularization Detected with Swept Source Optical Coherence Tomography Angiography. American Journal of Ophthalmology, 2019, 208, 1-11.	3.3	57

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109	Measurement of absolute blood flow velocity in outflow tract of HH18 chicken embryo based on 4D reconstruction using spectral domain optical coherence tomography. Biomedical Optics Express, 2010, 1, 798.	2.9	56
110	Phase-sensitive optical coherence tomography characterization of pulse-induced trabecular meshwork displacement inex vivononhuman primate eyes. Journal of Biomedical Optics, 2012, 17, 0760261.	2.6	56
111	Suspended Scattering Particles in Motion: A Novel Feature of OCT Angiography in Exudative Maculopathies. Ophthalmology Retina, 2018, 2, 694-702.	2.4	56
112	Attenuation correction assisted automatic segmentation for assessing choroidal thickness and vasculature with swept-source OCT. Biomedical Optics Express, 2018, 9, 6067.	2.9	56
113	Biomechanics of the Chick Embryonic Heart Outflow Tract at HH18 Using 4D Optical Coherence Tomography Imaging and Computational Modeling. PLoS ONE, 2012, 7, e40869.	2.5	54
114	Impaired Leptomeningeal Collateral Flow Contributes to the Poor Outcome following Experimental Stroke in the Type 2 Diabetic Mice. Journal of Neuroscience, 2015, 35, 3851-3864.	3.6	54
115	Use of optical coherence tomography in delineating airways microstructure: comparison of OCT images to histopathological sections. Physics in Medicine and Biology, 2004, 49, 1247-1255.	3.0	53
116	A novel optical coherence tomography-based micro-indentation technique for mechanical characterization of hydrogels. Journal of the Royal Society Interface, 2007, 4, 1169-1173.	3.4	53
117	Label-free optical lymphangiography: development of an automatic segmentation method applied to optical coherence tomography to visualize lymphatic vessels using Hessian filters. Journal of Biomedical Optics, 2013, 18, 086004.	2.6	53
118	Intracisternal Administration of Tissue Plasminogen Activator Improves Cerebrospinal Fluid Flow and Cortical Perfusion After Subarachnoid Hemorrhage in Mice. Translational Stroke Research, 2014, 5, 227-237.	4.2	53
119	Noninvasive Imaging of Retinal Morphology and Microvasculature in Obese Mice Using Optical Coherence Tomography and Optical Microangiography. , 2014, 55, 1024.		51
120	Strategies to improve phase-stability of ultrafast swept source optical coherence tomography for single shot imaging of transient mechanical waves at 16â€‰kHz frame rate. Applied Physics Letters, 2016, 108, 191104.	3.3	51
121	Microvascular Changes in the Choriocapillaris of Diabetic Patients Without Retinopathy Investigated by Swept-Source OCT Angiography. , 2020, 61, 50.		51
122	Application of Thinned-Skull Cranial Window to Mouse Cerebral Blood Flow Imaging Using Optical Microangiography. PLoS ONE, 2014, 9, e113658.	2.5	51
123	Fourier domain optical coherence tomography achieves full range complex imagingin vivoby introducing a carrier frequency during scanning. Physics in Medicine and Biology, 2007, 52, 5897-5907.	3.0	50
124	Penetration kinetics of dimethyl sulphoxide and glycerol in dynamic optical clearing of porcine skin tissue in vitro studied by Fourier transform infrared spectroscopic imaging. Journal of Biomedical Optics, 2008, 13, 021105.	2.6	50
125	Optical coherence tomography angiography monitors human cutaneous wound healing over time. Quantitative Imaging in Medicine and Surgery, 2018, 8, 135-150.	2.0	50
126	In vivo microstructural and microvascular imaging of the human corneo-scleral limbus using optical coherence tomography. Biomedical Optics Express, 2011, 2, 3109.	2.9	49

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127	Shear wave elastography using amplitude-modulated acoustic radiation force and phase-sensitive optical coherence tomography. Journal of Biomedical Optics, 2015, 20, 016001.	2.6	49
128	Vasodynamics of pial and penetrating arterioles in relation to arteriolo-arteriolar anastomosis after focal stroke. Neurophotonics, 2015, 2, 025006.	3.3	49
129	High resolution imaging of acne lesion development and scarring in human facial skin using OCT-based microangiography. Lasers in Surgery and Medicine, 2015, 47, 231-238.	2.1	48
130	Segmentation and quantification of blood vessels for OCT-based micro-angiograms using hybrid shape/intensity compounding. Microvascular Research, 2015, 97, 37-46.	2.5	48
131	Characterizing relationship between optical microangiography signals and capillary flow using microfluidic channels. Biomedical Optics Express, 2016, 7, 2709.	2.9	48
132	Repeatability and reproducibility of optic nerve head perfusion measurements using optical coherence tomography angiography. Journal of Biomedical Optics, 2016, 21, 065002.	2.6	48
133	Doppler optical coherence tomography for measuring flow in engineered tissue. Biosensors and Bioelectronics, 2004, 20, 414-423.	10.1	47
134	Shear wave pulse compression for dynamic elastography using phase-sensitive optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 016013.	2.6	47
135	Capillary blood flow imaging within human finger cuticle using optical microangiography. Journal of Biophotonics, 2015, 8, 46-51.	2.3	47
136	Investigation of optical clearing of gastric tissue immersed with hyperosmotic agents. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 234-242.	2.9	46
137	Feasibility of spectral-domain phase-sensitive optical coherence tomography for middle ear vibrometry. Journal of Biomedical Optics, 2012, 17, 060505.	2.6	46
138	Quantitative elasticity measurement of urinary bladder wall using laser-induced surface acoustic waves. Biomedical Optics Express, 2014, 5, 4313.	2.9	46
139	Platform to investigate aqueous outflow system structure and pressure-dependent motion using high-resolution spectral domain optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 1.	2.6	46
140	Improving visualization and quantitative assessment of choriocapillaris with swept source OCTA through registration and averaging applicable to clinical systems. Scientific Reports, 2018, 8, 16826.	3.3	46
141	In Vivo Outer Hair Cell Length Changes Expose the Active Process in the Cochlea. PLoS ONE, 2012, 7, e32757.	2.5	46
142	High-resolution visualization of fluid dynamics with Doppler optical coherence tomography. Measurement Science and Technology, 2004, 15, 725-733.	2.6	45
143	Inhibition of Factor XII-Mediated Activation of Factor XI Provides Protection Against Experimental Acute Ischemic Stroke in Mice. Translational Stroke Research, 2012, 3, 381-389.	4.2	45
144	Evaluation of the effect of elevated intraocular pressure and reduced ocular perfusion pressure on retinal capillary bed filling and total retinal blood flow in rats by OMAG/OCT. Microvascular Research, 2015, 101, 86-95.	2.5	45

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145	Complex-based OCT angiography algorithm recovers microvascular information better than amplitude- or phase-based algorithms in phase-stable systems. Physics in Medicine and Biology, 2018, 63, 015023.	3.0	45
146	Laser induced surface acoustic wave combined with phase sensitive optical coherence tomography for superficial tissue characterization: a solution for practical application. Biomedical Optics Express, 2014, 5, 1403.	2.9	44
147	Structural and Functional Associations of Macular Microcirculation in the Ganglion Cell-Inner Plexiform Layer in Glaucoma Using Optical Coherence Tomography Angiography. Journal of Glaucoma, 2018, 27, 281-290.	1.6	44
148	Wide field and highly sensitive angiography based on optical coherence tomography with akinetic swept source. Biomedical Optics Express, 2017, 8, 420.	2.9	43
149	High-resolution 1050 nm spectral domain retinal optical coherence tomography at 120 kHz A-scan rate with 61 mm imaging depth. Biomedical Optics Express, 2013, 4, 245.	2.9	42
150	Quantitative shear-wave optical coherence elastography with a programmable phased array ultrasound as the wave source. Optics Letters, 2015, 40, 5007.	3.3	42
151	Minimal basilar membrane motion in low-frequency hearing. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4304-10.	7.1	42
152	Aqueous outflow regulation â€“ 21st century concepts. Progress in Retinal and Eye Research, 2021, 83, 100917.	15.5	42
153	Bactericidal action of high-power Nd:YAG laser light onEscherichia coliin saline suspension. Journal of Applied Microbiology, 2000, 89, 517-525.	3.1	41
154	The vibratory stress relief of a marine shafting of 35# bar steel. Materials Letters, 2004, 58, 299-303.	2.6	41
155	Optical microangiography of retina and choroid and measurement of total retinal blood flow in mice. Biomedical Optics Express, 2012, 3, 2976.	2.9	41
156	Bandage Soft Contact Lenses for Ocular Graft-versus-Host Disease. Biology of Blood and Marrow Transplantation, 2015, 21, 2002-2007.	2.0	41
157	Air-coupled acoustic radiation force for non-contact generation of broadband mechanical waves in soft media. Applied Physics Letters, 2016, 109, 043701.	3.3	41
158	Optical coherence tomography angiography-based capillary velocimetry. Journal of Biomedical Optics, 2017, 22, 066008.	2.6	41
159	Hyperspectral imaging enabled by an unmodified smartphone for analyzing skin morphological features and monitoring hemodynamics. Biomedical Optics Express, 2020, 11, 895.	2.9	41
160	Three-dimensional optical micro-angiography maps directional blood perfusion deep within microcirculation tissue bedsin vivo. Physics in Medicine and Biology, 2007, 52, N531-N537.	3.0	40
161	Optical microangiography provides depth-resolved images of directional ocular blood perfusion in posterior eye segment. Journal of Biomedical Optics, 2010, 15, 020502.	2.6	40
162	Correlations Between Choriocapillaris and Choroidal Measurements and the Growth of Geographic Atrophy Using Swept Source OCT Imaging. American Journal of Ophthalmology, 2021, 224, 321-331.	3.3	40

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163	Federated Learning for Microvasculature Segmentation and Diabetic Retinopathy Classification of OCT Data. Ophthalmology Science, 2021, 1, 100069.	2.5	40
164	Investigation of changes in optical attenuation of bone and neuronal cells in organ culture or three-dimensional constructs in vitro with optical coherence tomography: relevance to cytochrome oxidase monitoring. European Biophysics Journal, 2003, 32, 355-362.	2.2	39
165	Volumetric in vivo imaging of intracochlear microstructures in mice by high-speed spectral domain optical coherence tomography. Journal of Biomedical Optics, 2010, 15, 1.	2.6	39
166	Quantifying blood flow and wall shear stresses in the outflow tract of chick embryonic hearts. Computers and Structures, 2011, 89, 855-867.	4.4	39
167	Hemodynamic and morphological vasculature response to a burn monitored using a combined dual-wavelength laser speckle and optical microangiography imaging system. Biomedical Optics Express, 2012, 3, 455.	2.9	39
168	Quantitative evaluation of degenerated tendon model using combined optical coherence elastography and acoustic radiation force method. Journal of Biomedical Optics, 2013, 18, 111417.	2.6	39
169	Optical clearing effect on gastric tissues immersed with biocompatible chemical agents investigated by near infrared reflectance spectroscopy. Journal Physics D: Applied Physics, 2003, 36, 1707-1713.	2.8	38
170	Extended imaging depth to 12Âmm for 1050-nm spectral domain optical coherence tomography for imaging the whole anterior segment of the human eye at 120-kHz A-scan rate. Journal of Biomedical Optics, 2013, 18, 016012.	2.6	38
171	Potential use of <scp>OCT</scp>â€based microangiography in clinical dermatology. Skin Research and Technology, 2016, 22, 238-246.	1.6	38
172	Wide velocity range Doppler optical microangiography using optimized step-scanning protocol with phase variance mask. Journal of Biomedical Optics, 2013, 18, 106015.	2.6	37
173	In vivo imaging of functional microvasculature within tissue beds of oral and nasal cavities by swept-source optical coherence tomography with a forward/side-viewing probe. Biomedical Optics Express, 2014, 5, 2620.	2.9	37
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