

Konstantin I Maslov

List of Publications by Year in descending order

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226
papers

14,559
citations

16451

64
h-index

19190

118
g-index

229
all docs

229
docs citations

229
times ranked

6219
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional photoacoustic microscopy for high-resolution and noninvasive in vivo imaging. Nature Biotechnology, 2006, 24, 848-851.	17.5	1,690
2	Optical-resolution photoacoustic microscopy for in vivo imaging of single capillaries. Optics Letters, 2008, 33, 929.	3.3	710
3	High-speed label-free functional photoacoustic microscopy of mouse brain in action. Nature Methods, 2015, 12, 407-410.	19.0	555
4	In vivo dark-field reflection-mode photoacoustic microscopy. Optics Letters, 2005, 30, 625.	3.3	405
5	Second-generation optical-resolution photoacoustic microscopy with improved sensitivity and speed. Optics Letters, 2011, 36, 1134.	3.3	378
6	Simultaneous functional photoacoustic and ultrasonic endoscopy of internal organs in vivo. Nature Medicine, 2012, 18, 1297-1302.	30.7	378
7	Single-impulse panoramic photoacoustic computed tomography of small-animal whole-body dynamics at high spatiotemporal resolution. Nature Biomedical Engineering, 2017, 1, .	22.5	334
8	Imaging of hemoglobin oxygen saturation variations in single vessels in vivo using photoacoustic microscopy. Applied Physics Letters, 2007, 90, 053901.	3.3	310
9	Single-breath-hold photoacoustic computed tomography of the breast. Nature Communications, 2018, 9, 2352.	12.8	290
10	Label-free oxygen-metabolic photoacoustic microscopy in vivo. Journal of Biomedical Optics, 2011, 16, 076003.	2.6	278
11	Subwavelength-resolution label-free photoacoustic microscopy of optical absorption in vivo. Optics Letters, 2010, 35, 3195.	3.3	251
12	Three-dimensional imaging of skin melanoma in vivo by dual-wavelength photoacoustic microscopy. Journal of Biomedical Optics, 2006, 11, 034032.	2.6	242
13	Sentinel Lymph Nodes in the Rat: Noninvasive Photoacoustic and US Imaging with a Clinical US System. Radiology, 2010, 256, 102-110.	7.3	225
14	Photoacoustic endoscopy. Optics Letters, 2009, 34, 1591.	3.3	217
15	Noninvasive photoacoustic computed tomography of mouse brain metabolism in vivo. NeuroImage, 2013, 64, 257-266.	4.2	199
16	Single-cell label-free photoacoustic flow oximetry in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5759-5764.	7.1	191
17	In vivo label-free photoacoustic microscopy of cell nuclei by excitation of DNA and RNA. Optics Letters, 2010, 35, 4139.	3.3	184
18	In vivo photoacoustic imaging of transverse blood flow by using Doppler broadening of bandwidth. Optics Letters, 2010, 35, 1419.	3.3	182

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19	In vivo imaging of subcutaneous structures using functional photoacoustic microscopy. <i>Nature Protocols</i> , 2007, 2, 797-804.	12.0	181
20	Fast voice-coil scanning optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2011, 36, 139.	3.3	180
21	Dual-Modality Photoacoustic and Ultrasound Imaging System for Noninvasive Sentinel Lymph Node Detection in Patients with Breast Cancer. <i>Scientific Reports</i> , 2015, 5, 15748.	3.3	175
22	Improved in vivo photoacoustic microscopy based on a virtual-detector concept. <i>Optics Letters</i> , 2006, 31, 474.	3.3	167
23	VEGF is essential for hypoxia-inducible factor-mediated neovascularization but dispensable for endothelial sprouting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13264-13269.	7.1	159
24	High-resolution, high-contrast mid-infrared imaging of fresh biological samples with ultraviolet-localized photoacoustic microscopy. <i>Nature Photonics</i> , 2019, 13, 609-615.	31.4	158
25	Functional transcranial brain imaging by optical-resolution photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 1.	2.6	151
26	Photoacoustic Doppler Effect from Flowing Small Light-Absorbing Particles. <i>Physical Review Letters</i> , 2007, 99, 184501.	7.8	146
27	Noninvasive in vivo spectroscopic nanorod-contrast photoacoustic mapping of sentinel lymph nodes. <i>European Journal of Radiology</i> , 2009, 70, 227-231.	2.6	145
28	Whole-body ring-shaped confocal photoacoustic computed tomography of small animals in vivo. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	143
29	Label-free photoacoustic ophthalmic angiography. <i>Optics Letters</i> , 2010, 35, 1.	3.3	138
30	Handheld array-based photoacoustic probe for guiding needle biopsy of sentinel lymph nodes. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	2.6	134
31	Photoacoustic imaging of biological tissue with intensity-modulated continuous-wave laser. <i>Journal of Biomedical Optics</i> , 2008, 13, 024006.	2.6	132
32	Label-free photoacoustic nanoscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 1.	2.6	124
33	Wide-field fast-scanning photoacoustic microscopy based on a water-immersible MEMS scanning mirror. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	122
34	In vivo volumetric imaging of subcutaneous microvasculature by photoacoustic microscopy. <i>Optics Express</i> , 2006, 14, 9317.	3.4	121
35	In vivo integrated photoacoustic and confocal microscopy of hemoglobin oxygen saturation and oxygen partial pressure. <i>Optics Letters</i> , 2011, 36, 1029.	3.3	116
36	Noninvasive label-free imaging of microhemodynamics by optical-resolution photoacoustic microscopy. <i>Optics Express</i> , 2009, 17, 7688.	3.4	115

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37	In vivo photoacoustic microscopy with 7.6-Åµm axial resolution using a commercial 125-MHz ultrasonic transducer. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	113
38	Noninvasive, in vivo imaging of blood-oxygenation dynamics within the mouse brain using photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 020502.	2.6	112
39	Near-infrared optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2014, 39, 5192.	3.3	112
40	Effects of wavelength-dependent fluence attenuation on the noninvasive photoacoustic imaging of hemoglobin oxygen saturation in subcutaneous vasculature in vivo. <i>Inverse Problems</i> , 2007, 23, S113-S122.	2.0	111
41	Photoacoustic tomography through a whole adult human skull with a photon recycler. <i>Journal of Biomedical Optics</i> , 2012, 17, 110506.	2.6	105
42	Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. <i>Nature Communications</i> , 2017, 8, 1386.	12.8	104
43	Reflection-mode submicron-resolution in vivo photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 020501.	2.6	102
44	Limitations of quantitative photoacoustic measurements of blood oxygenation in small vessels. <i>Physics in Medicine and Biology</i> , 2007, 52, 1349-1361.	3.0	100
45	Three-dimensional combined photoacoustic and optical coherence microscopy for in vivo microcirculation studies. <i>Optics Express</i> , 2009, 17, 16450.	3.4	100
46	Noise-equivalent sensitivity of photoacoustics. <i>Journal of Biomedical Optics</i> , 2013, 18, 097003.	2.6	99
47	Handheld photoacoustic microscopy to detect melanoma depth in vivo. <i>Optics Letters</i> , 2014, 39, 4731.	3.3	98
48	Massively parallel functional photoacoustic computed tomography of the human brain. <i>Nature Biomedical Engineering</i> , 2022, 6, 584-592.	22.5	97
49	Photoacoustic measurement of the Grüneisen parameter of tissue. <i>Journal of Biomedical Optics</i> , 2014, 19, 017007.	2.6	92
50	Hybrid-scanning optical-resolution photoacoustic microscopy for in vivo vasculature imaging. <i>Optics Letters</i> , 2010, 35, 1521.	3.3	88
51	Enhancement of photoacoustic tomography by ultrasonic computed tomography based on optical excitation of elements of a full-ring transducer array. <i>Optics Letters</i> , 2013, 38, 3140.	3.3	86
52	Imaging acute thermal burns by photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2006, 11, 054033.	2.6	83
53	Intravital imaging of amyloid plaques in a transgenic mouse model using optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2009, 34, 3899.	3.3	83
54	Conditional HIF-1 induction produces multistage neovascularization with stage-specific sensitivity to VEGFR inhibitors and myeloid cell independence. <i>Blood</i> , 2011, 117, 4142-4153.	1.4	79

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55	High-speed three-dimensional photoacoustic computed tomography for preclinical research and clinical translation. <i>Nature Communications</i> , 2021, 12, 882.	12.8	77
56	Fiber-laser-based photoacoustic microscopy and melanoma cell detection. <i>Journal of Biomedical Optics</i> , 2011, 16, 011014.	2.6	75
57	Integrated Photoacoustic and Fluorescence Confocal Microscopy. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2576-2578.	4.2	74
58	Optical-resolution photoacoustic endomicroscopy in vivo. <i>Biomedical Optics Express</i> , 2015, 6, 918.	2.9	73
59	Three-dimensional photoacoustic tomography based on the focal-line concept. <i>Journal of Biomedical Optics</i> , 2011, 16, 1.	2.6	70
60	Snapshot photoacoustic topography through an ergodic relay for high-throughput imaging of optical absorption. <i>Nature Photonics</i> , 2020, 14, 164-170.	31.4	70
61	Evans blue dye-enhanced capillary-resolution photoacoustic microscopy in vivo. <i>Journal of Biomedical Optics</i> , 2009, 14, 1.	2.6	69
62	Fully motorized optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2014, 39, 2117.	3.3	69
63	Label-free photoacoustic microscopy of peripheral nerves. <i>Journal of Biomedical Optics</i> , 2014, 19, 1.	2.6	68
64	Fast 3-D dark-field reflection-mode photoacoustic microscopy in vivo with a 30-MHz ultrasound linear array. <i>Journal of Biomedical Optics</i> , 2008, 13, 1.	2.6	66
65	Real-time four-dimensional optical-resolution photoacoustic microscopy with Au nanoparticle-assisted subdiffraction-limit resolution. <i>Optics Letters</i> , 2011, 36, 1137.	3.3	66
66	<i>In vivo</i> functional chronic imaging of a small animal model using optical-resolution photoacoustic microscopy. <i>Medical Physics</i> , 2009, 36, 2320-2323.	3.0	64
67	High-speed dynamic 3D photoacoustic imaging of sentinel lymph node in a murine model using an ultrasound array. <i>Medical Physics</i> , 2009, 36, 3724-3729.	3.0	64
68	Ultrasonically Encoded Photoacoustic Flowgraphy in Biological Tissue. <i>Physical Review Letters</i> , 2013, 111, 204301.	7.8	63
69	Tumor glucose metabolism imaged <i>in vivo</i> in small animals with whole-body photoacoustic computed tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 0760121.	2.6	62
70	Optimal ultraviolet wavelength for <i>in vivo</i> photoacoustic imaging of cell nuclei. <i>Journal of Biomedical Optics</i> , 2012, 17, 056004.	2.6	61
71	Video-rate functional photoacoustic microscopy at depths. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	60
72	Integrated optical- and acoustic-resolution photoacoustic microscopy based on an optical fiber bundle. <i>Optics Letters</i> , 2013, 38, 52.	3.3	59

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73	Double-illumination photoacoustic microscopy. <i>Optics Letters</i> , 2012, 37, 659.	3.3	57
74	Multifocal optical-resolution photoacoustic microscopy in vivo. <i>Optics Letters</i> , 2011, 36, 1236.	3.3	56
75	Photoacoustic microscopy with 2- μm transverse resolution. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	2.6	55
76	Photoacoustic microscopy of microvascular responses to cortical electrical stimulation. <i>Journal of Biomedical Optics</i> , 2011, 16, 1.	2.6	54
77	Photoacoustic and optical coherence tomography of epilepsy with high temporal and spatial resolution and dual optical contrasts. <i>Journal of Neuroscience Methods</i> , 2013, 216, 142-145.	2.5	54
78	Photoacoustic Doppler flow measurement in optically scattering media. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	53
79	Ultrasound-array-based real-time photoacoustic microscopy of human pulsatile dynamics in vivo. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	2.6	53
80	In vivo imaging of epileptic activity using 2-NBDG, a fluorescent deoxyglucose analog. <i>Journal of Neuroscience Methods</i> , 2012, 203, 136-140.	2.5	53
81	Noninvasive, in vivo imaging of the mouse brain using photoacoustic microscopy. <i>Journal of Applied Physics</i> , 2009, 105, 102027.	2.5	52
82	Improving limited-view photoacoustic tomography with an acoustic reflector. <i>Journal of Biomedical Optics</i> , 2013, 18, 110505.	2.6	52
83	Calibration-free quantification of absolute oxygen saturation based on the dynamics of photoacoustic signals. <i>Optics Letters</i> , 2013, 38, 2800.	3.3	50
84	Wide-field two-dimensional multifocal optical-resolution photoacoustic-computed microscopy. <i>Optics Letters</i> , 2013, 38, 5236.	3.3	50
85	Calibration-free in vivo transverse blood flowmetry based on cross correlation of slow time profiles from photoacoustic microscopy. <i>Optics Letters</i> , 2013, 38, 3882.	3.3	48
86	SIMULTANEOUS IMAGING OF A lacZ-MARKED TUMOR AND MICROVASCULATURE MORPHOLOGY <i>IN VIVO</i> BY DUAL-WAVELENGTH PHOTOACOUSTIC MICROSCOPY. <i>Journal of Innovative Optical Health Sciences</i> , 2008, 01, 207-215.	1.0	45
87	Single-wavelength functional photoacoustic microscopy in biological tissue. <i>Optics Letters</i> , 2011, 36, 769.	3.3	42
88	Picosecond absorption relaxation measured with nanosecond laser photoacoustics. <i>Applied Physics Letters</i> , 2010, 97, 163701.	3.3	41
89	Photoacoustic tomography imaging and estimation of oxygen saturation of hemoglobin in ocular tissue of rabbits. <i>Experimental Eye Research</i> , 2015, 138, 153-158.	2.6	41
90	Random-access optical-resolution photoacoustic microscopy using a digital micromirror device. <i>Optics Letters</i> , 2013, 38, 2683.	3.3	38

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91	Urogenital photoacoustic endoscope. Optics Letters, 2014, 39, 1473.	3.3	38
92	Microvascular quantification based on contour-scanning photoacoustic microscopy. Journal of Biomedical Optics, 2014, 19, 096011.	2.6	37
93	Retrospective respiration-gated whole-body photoacoustic computed tomography of mice. Journal of Biomedical Optics, 2014, 19, 1.	2.6	36
94	<i>In vivo</i> Photoacoustic Tomography of Total Blood Flow and Potential Imaging of Cancer Angiogenesis and Hypermetabolism. Technology in Cancer Research and Treatment, 2012, 11, 301-307.	1.9	35
95	Section-illumination photoacoustic microscopy for dynamic 3D imaging of microcirculation in vivo. Optics Letters, 2010, 35, 1482.	3.3	33
96	Cross-correlation-based transverse flow measurements using optical resolution photoacoustic microscopy with a digital micromirror device. Journal of Biomedical Optics, 2013, 18, 096004.	2.6	33
97	Functional photoacoustic microscopy of pH. Journal of Biomedical Optics, 2011, 16, 100503.	2.6	32
98	Photoacoustic microscopy of blood pulse wave. Journal of Biomedical Optics, 2012, 17, 0705041.	2.6	32
99	Immediate alterations in intestinal oxygen saturation and blood flow after massive small bowel resection as measured by photoacoustic microscopy. Journal of Pediatric Surgery, 2012, 47, 1143-1149.	1.6	32
100	Transvaginal fast-scanning optical-resolution photoacoustic endoscopy. Journal of Biomedical Optics, 2018, 23, 1.	2.6	32
101	A new technique for the ultrasonic detection of internal transverse cracks in carbon-fibre/bismaleimide composite laminates. Composites Science and Technology, 2000, 60, 2185-2190.	7.8	31
102	Living Brain Optical Imaging: Technology, Methods and Applications. Journal of Neuroscience and Neuroengineering, 2012, 1, 180-192.	0.2	31
103	Nonlinear photoacoustic spectroscopy of hemoglobin. Applied Physics Letters, 2015, 106, 203701.	3.3	30
104	Dichroism-sensitive photoacoustic computed tomography. Optica, 2018, 5, 495.	9.3	29
105	The transmission of a longitudinal wave through a layer of spherical inclusions with a random or periodic arrangement. Journal of the Mechanics and Physics of Solids, 1998, 46, 153-165.	4.8	28
106	Automatic algorithm for skin profile detection in photoacoustic microscopy. Journal of Biomedical Optics, 2009, 14, 024050.	2.6	25
107	Calibration-free absolute quantification of particle concentration by statistical analyses of photoacoustic signals <i>in vivo</i> . Journal of Biomedical Optics, 2014, 19, 037001.	2.6	25
108	Reflection-mode multifocal optical-resolution photoacoustic microscopy. Journal of Biomedical Optics, 2013, 18, 1.	2.6	23

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109	Ultrasonic Ply-by-Ply Detection of Matrix Cracks in Laminated Composites. Journal of Nondestructive Evaluation, 2006, 25, 37-49.	2.4	21
110	Ultrasound-heated photoacoustic flowmetry. Journal of Biomedical Optics, 2013, 18, 117003.	2.6	21
111	Microcirculatory changes identified by photoacoustic microscopy in patients with complex regional pain syndrome type I after stellate ganglion blocks. Journal of Biomedical Optics, 2014, 19, 086017.	2.6	21
112	Wave of single-impulse-stimulated fast initial dip in single vessels of mouse brains imaged by high-speed functional photoacoustic microscopy. Journal of Biomedical Optics, 2020, 25, 1.	2.6	19
113	Spectrally encoded photoacoustic microscopy using a digital mirror device. Journal of Biomedical Optics, 2012, 17, 066020.	2.6	17
114	Dry coupling for whole-body small-animal photoacoustic computed tomography. Journal of Biomedical Optics, 2017, 22, 1.	2.6	17
115	Optical-resolution photoacoustic microscopy of ischemic stroke. Proceedings of SPIE, 2011, , .	0.8	16
116	Three-dimensional Optical-resolution Photoacoustic Microscopy. Journal of Visualized Experiments, 2011, , .	0.3	16
117	Tripling the detection view of high-frequency linear-array-based photoacoustic computed tomography by using two planar acoustic reflectors. Quantitative Imaging in Medicine and Surgery, 2015, 5, 57-62.	2.0	16
118	Technical considerations in quantitative blood oxygenation measurement using photoacoustic microscopy in vivo. , 2006, 6086, 215.		14
119	Structured-illumination photoacoustic Doppler flowmetry of axial flow in homogeneous scattering media. Applied Physics Letters, 2013, 103, 94101.	3.3	14
120	Photoacoustic topography through an ergodic relay for functional imaging and biometric application in vivo. Journal of Biomedical Optics, 2020, 25, 1.	2.6	14
121	Photoacoustic imaging reveals mechanisms of rapid-acting insulin formulations dynamics at the injection site. Molecular Metabolism, 2022, 62, 101522.	6.5	14
122	Use of a single xenon flash lamp for photoacoustic computed tomography of multiple-centimeter-thick biological tissue <i>ex vivo</i> and a whole mouse body <i>in vivo</i> . Journal of Biomedical Optics, 2016, 22, 041003.	2.6	13
123	Label-free imaging of lipid-rich biological tissues by mid-infrared photoacoustic microscopy. Journal of Biomedical Optics, 2020, 25, .	2.6	13
124	Acoustic response of a periodic layer of nearly rigid spherical inclusions in an elastic solid. Journal of the Acoustical Society of America, 1999, 106, 3081-3088.	1.1	12
125	Measurement of six acoustical properties of a three-layered medium using resonant frequencies. Journal of the Acoustical Society of America, 2004, 115, 57-65.	1.1	11
126	Optical-resolution confocal photoacoustic microscopy. Proceedings of SPIE, 2008, , .	0.8	11

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127	Vessel segmentation analysis of ischemic stroke images acquired with photoacoustic microscopy. Proceedings of SPIE, 2012, , .	0.8	11
128	Optical-resolution photoacoustic microscopy of angiogenesis in a transgenic mouse model. Proceedings of SPIE, 2010, , .	0.8	10
129	Amplitudeâ€“frequency dependence of damping properties of carbon foams. Journal of Sound and Vibration, 2005, 282, 769-780.	3.9	9
130	Calibration-free structured-illumination photoacoustic flowgraphy of transverse flow in scattering media. Journal of Biomedical Optics, 2014, 19, 046007.	2.6	9
131	Threeâ€“dimensional arbitrary trajectory scanning photoacoustic microscopy. Journal of Biophotonics, 2015, 8, 303-308.	2.3	9
132	Noninvasive mapping of the electrically stimulated mouse brain using photoacoustic microscopy. , 2008, , .		8
133	Ultrasound-modulated optical tomography in reflection mode with ring-shaped light illumination. Journal of Biomedical Optics, 2009, 14, 024015.	2.6	8
134	Portable real-time photoacoustic microscopy. , 2007, , .		7
135	Volumetric photoacoustic endoscopy of upper gastrointestinal tract: ultrasonic transducer technology development. Proceedings of SPIE, 2011, , .	0.8	7
136	Up-regulation of hypoxia-inducible factor 1 alpha and hemodynamic responses following massive small bowel resection. Journal of Pediatric Surgery, 2013, 48, 1330-1339.	1.6	7
137	Ultrasound sensing using a fiber coupled silica microtoroid resonator encapsulated in a polymer. , 2013, , .		7
138	Continuous-wave photoacoustic microscopy. , 2007, , .		6
139	Endoscopic photoacoustic microscopy. , 2009, , .		6
140	Photoacoustic microscopy with submicron resolution. Proceedings of SPIE, 2010, , .	0.8	6
141	Toward dual-wavelength functional photoacoustic endoscopy: laser and peripheral optical systems development. Proceedings of SPIE, 2012, , .	0.8	5
142	In vivo characterization of connective tissue remodeling using infrared photoacoustic spectra. Journal of Biomedical Optics, 2018, 23, 1-6.	2.6	5
143	PHOTOACOUSTIC GENERATION OF FOCUSED QUASI-UNIPOLAR PRESSURE PULSES. Journal of Innovative Optical Health Sciences, 2010, 03, 247-253.	1.0	4
144	Fast-scanning reflection-mode integrated photoacoustic and optical-coherence microscopy. Proceedings of SPIE, 2010, , .	0.8	4

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145	Volumetric photoacoustic endoscopy of internal organs: a phantom and in situ study. , 2010, , .		4
146	In vivo label-free photoacoustic microscopy of the anterior segment of the mouse eye. , 2010, , .		4
147	Noninvasive photoacoustic computed tomography of mouse brain metabolism<i>in vivo</i>. Proceedings of SPIE, 2013, , .	0.8	4
148	High-resolution photoacoustic vascular imaging in vivo using a large-aperture acoustic lens. , 2005, 5697, 7.		3
149	High-resolution burn imaging in pig skin by photoacoustic microscopy. , 2007, , .		3
150	Monitoring the healing process of laser-induced microvascular lesions using optical-resolution photoacoustic microscopy. Proceedings of SPIE, 2009, , .	0.8	3
151	In-vivo imaging of microcirculation using integrated photoacoustic and optical-coherence microscopy. Proceedings of SPIE, 2009, , .	0.8	3
152	Transverse flow measurement using photoacoustic Doppler bandwidth broadening: phantom and in vivo studies. Proceedings of SPIE, 2010, , .	0.8	3
153	Integrated photoacoustic and fluorescence confocal microscopy. , 2011, , .		3
154	Photoacoustic microscopy of a three-dimensional arbitrary trajectory. Proceedings of SPIE, 2014, , .	0.8	3
155	Broadening the detection view of high-frequency linear-array-based photoacoustic computed tomography by using planar acoustic reflectors. Proceedings of SPIE, 2014, , .	0.8	3
156	Optical-resolution photoacoustic microscopy of the metabolic rate of oxygen in a mouse renal tumor model. Proceedings of SPIE, 2015, , .	0.8	3
157	Probing singleâ€cell oxygen reserve in sickled erythrocytes via in vivo photoacoustic microscopy. American Journal of Hematology, 2022, 97, .	4.1	3
158	Effects of wavelength-dependent fluence attenuation on the noninvasive photoacoustic imaging of hemoglobin oxygen saturation in subcutaneous vasculature in vivo. Proceedings of SPIE, 2008, , .	0.8	2
159	M -mode photoacoustic flow imaging. Proceedings of SPIE, 2009, , .	0.8	2
160	In vivo functional human imaging using photoacoustic microscopy: response to ischemic and thermal stimuli. Proceedings of SPIE, 2010, , .	0.8	2
161	Optical-resolution photoacoustic microscopy of amyloid-Î² deposits in vivo. , 2010, , .		2
162	Noninvasive quantification of metabolic rate of oxygen (MRO 2) by photoacoustic microscopy. , 2011, , .		2

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163	Photoacoustic image-guided needle biopsy of sentinel lymph nodes. Proceedings of SPIE, 2011, , .	0.8	2
164	Photoacoustic and thermoacoustic imaging with a multichannel breast scanner. , 2012, , .		2
165	Dichroism optical-resolution photoacoustic microscopy. , 2012, , .		2
166	Anatomical and metabolic small-animal whole-body imaging using ring-shaped confocal photoacoustic computed tomography. , 2013, , .		2
167	A dual-modality photoacoustic and ultrasound imaging system for noninvasive sentinel lymph node detection: preliminary clinical results. Proceedings of SPIE, 2014, , .	0.8	2
168	DMD-based random-access optical-resolution photoacoustic microscopy. , 2014, , .		2
169	<i>In vivo</i> melanoma depth detection by a handheld photoacoustic microscope. Proceedings of SPIE, 2015, , .	0.8	2
170	Imaging small animal whole-body dynamics by single-impulse panoramic photoacoustic computed tomography. Proceedings of SPIE, 2017, , .	0.8	2
171	Three-Dimensional Optical-Resolution Photoacoustic Microscopy. Biological and Medical Physics Series, 2013, , 55-77.	0.4	2
172	Clinical photoacoustic computed tomography of the human breast in vivo within a single breath hold. , 2018, , .		2
173	Water-Immersible MEMS Scanning Mirror Enhanced Optical-Resolution Photoacoustic Microscopy. , 2012, , .		2
174	Reflection-mode submicron-resolution photoacoustic microscopy in vivo. , 2012, , .		2
175	Functional photoacoustic microscopy in vivo. , 2006, 6086, 377.		1
176	Virtual-detector synthetic aperture focusing technique with application in in vivo photoacoustic microscopy. , 2006, 6086, 369.		1
177	Photoacoustic generation of focused ultrasonic pulses with predefined temporal profiles including quasi-unipolar pressure pulses. , 2008, , .		1
178	In vivo, dual-modality imaging of mouse eyes: optical coherence tomography and photoacoustic microscopy within a single instrument. Proceedings of SPIE, 2010, , .	0.8	1
179	Optimal oblique light illumination for photoacoustic microscopy beyond the diffusion limit. Proceedings of SPIE, 2011, , .	0.8	1
180	Subwavelength-resolution photoacoustic microscopy for label-free detection of optical absorption in vivo. Proceedings of SPIE, 2011, , .	0.8	1

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181	Second generation optical-resolution photoacoustic microscopy. , 2011, , .		1
182	Volumetric Photoacoustic Endoscopy. , 2012, , .		1
183	Double-illumination photoacoustic microscopy of intestinal hemodynamics following massive small bowel resection. Proceedings of SPIE, 2012, , .	0.8	1
184	Ring-shaped confocal photoacoustic computed tomography for small-animal whole-body imaging. Proceedings of SPIE, 2012, , .	0.8	1
185	In vivo imaging of cell nuclei by photoacoustic microscopy without staining. Proceedings of SPIE, 2012, , .	0.8	1
186	Wide range quantitative photoacoustic spectroscopy to measure non-linear optical absorption of hemoglobin. , 2012, , .		1
187	DMD-encoded spectral photoacoustic microscopy. , 2012, , .		1
188	Water-Immersible MEMS scanning mirror designed for wide-field fast-scanning photoacoustic microscopy. Proceedings of SPIE, 2013, , .	0.8	1
189	Towards single molecule detection using photoacoustic microscopy. , 2013, , .		1
190	Combined optical and mechanical scanning in optical-resolution photoacoustic microscopy. Proceedings of SPIE, 2014, , .	0.8	1
191	Clinical Translation of Photoacoustic Tomography. , 0, , .		1
192	Optical-resolution photoacoustic microscopy with improved sensitivity and scanning speed. , 2010, , .		1
193	In vivo Functional Imaging Using Photoacoustic Microscopy. , 2006, , WD1.		0
194	Photoacoustic microscopy of cerebral blood-oxygenation dynamics in mice. Proceedings of SPIE, 2009, , .	0.8	0
195	Fast 3-D photoacoustic imaging in vivo with a high frequency ultrasound array toward clinical applications. , 2009, , .		0
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