

# 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	Massively parallel functional photoacoustic computed tomography of the human brain. <i>Nature Biomedical Engineering</i> , 2022, 6, 584-592.	22.5	97
2	Probing single-cell oxygen reserve in sickled erythrocytes via in vivo photoacoustic microscopy. <i>American Journal of Hematology</i> , 2022, 97, .	4.1	3
3	Photoacoustic imaging reveals mechanisms of rapid-acting insulin formulations dynamics at the injection site. <i>Molecular Metabolism</i> , 2022, 62, 101522.	6.5	14
4	High-speed three-dimensional photoacoustic computed tomography for preclinical research and clinical translation. <i>Nature Communications</i> , 2021, 12, 882.	12.8	77
5	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
6	Label-free imaging of lipid-rich biological tissues by mid-infrared photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2020, 25, .	2.6	13
7	Wave of single-impulse-stimulated fast initial dip in single vessels of mouse brains imaged by high-speed functional photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	19
8	Photoacoustic topography through an ergodic relay for functional imaging and biometric application in vivo. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	14
9	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
10	Dichroism-sensitive photoacoustic computed tomography. <i>Optica</i> , 2018, 5, 495.	9.3	29
11	Single-breath-hold photoacoustic computed tomography of the breast. <i>Nature Communications</i> , 2018, 9, 2352.	12.8	290
12	Transvaginal fast-scanning optical-resolution photoacoustic endoscopy. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	32
13	In vivo characterization of connective tissue remodeling using infrared photoacoustic spectra. <i>Journal of Biomedical Optics</i> , 2018, 23, 1-6.	2.6	5
14	Clinical photoacoustic computed tomography of the human breast in vivo within a single breath hold. , 2018, , .		2
15	Whole-organ atlas imaged by label-free high-resolution photoacoustic microscopy assisted by a microtome. , 2018, , .		0
16	Dry coupling for whole-body small-animal photoacoustic computed tomography. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	17
17	Single-impulse panoramic photoacoustic computed tomography of small-animal whole-body dynamics at high spatiotemporal resolution. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	334
18	Imaging small animal whole-body dynamics by single-impulse panoramic photoacoustic computed tomography. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2

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19	Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. <i>Nature Communications</i> , 2017, 8, 1386.	12.8	104
20	Dark-Field Confocal Photoacoustic Microscopy. , 2017, , 267-280.		0
21	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> . <i>Journal of Biomedical Optics</i> , 2016, 22, 041003.	2.6	13
22	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
23	Photoacoustic microscopy of complex regional pain syndrome type I (CRPS-1) after stellate ganglion blocks <i>in vivo</i> . , 2015, , .		0
24	Optical-resolution photoacoustic microscopy of the metabolic rate of oxygen in a mouse renal tumor model. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
25	<i>In vivo</i> melanoma depth detection by a handheld photoacoustic microscope. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
26	High-speed label-free functional photoacoustic microscopy of mouse brain in action. <i>Nature Methods</i> , 2015, 12, 407-410.	19.0	555
27	Optical-resolution photoacoustic endomicroscopy <i>in vivo</i> . <i>Biomedical Optics Express</i> , 2015, 6, 918.	2.9	73
28	Nonlinear photoacoustic spectroscopy of hemoglobin. <i>Applied Physics Letters</i> , 2015, 106, 203701.	3.3	30
29	Label-free optical-resolution photoacoustic endomicroscopy <i>in vivo</i> . , 2015, , .		0
30	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
31	Three-dimensional arbitrary trajectory scanning photoacoustic microscopy. <i>Journal of Biophotonics</i> , 2015, 8, 303-308.	2.3	9
32	Tripling the detection view of high-frequency linear-array-based photoacoustic computed tomography by using two planar acoustic reflectors. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 57-62.	2.0	16
33	Cross-correlation-based flowmetry using optical-resolution photoacoustic microscopy with a digital micromirror device. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
34	Acoustic-speed correction of photoacoustic tomography by ultrasonic computed tomography based on optical excitation of elements of a full-ring transducer array. , 2014, , .		0
35	Photoacoustic Doppler axial flow measurement of homogenous media using structured illumination. , 2014, , .		0
36	Photoacoustic microscopy of a three-dimensional arbitrary trajectory. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3

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37	Combined optical and mechanical scanning in optical-resolution photoacoustic microscopy. Proceedings of SPIE, 2014, , .	0.8	1
38	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
39	Near-infrared optical-resolution photoacoustic microscopy. Optics Letters, 2014, 39, 5192.	3.3	112
40	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
41	Label-free photoacoustic microscopy of peripheral nerves. Journal of Biomedical Optics, 2014, 19, 1.	2.6	68
42	A dual-modality photoacoustic and ultrasound imaging system for noninvasive sentinel lymph node detection: preliminary clinical results. Proceedings of SPIE, 2014, , .	0.8	2
43	Calibration-free structured-illumination photoacoustic flowgraphy of transverse flow in scattering media. Journal of Biomedical Optics, 2014, 19, 046007.	2.6	9
44	Photoacoustic correlation spectroscopy for calibration-free absolute quantification of particle concentration. Proceedings of SPIE, 2014, , .	0.8	0
45	DMD-based random-access optical-resolution photoacoustic microscopy. , 2014, , .		2
46	Microvascular quantification based on contour-scanning photoacoustic microscopy. Journal of Biomedical Optics, 2014, 19, 096011.	2.6	37
47	Label-free photoacoustic nanoscopy. Journal of Biomedical Optics, 2014, 19, 1.	2.6	124
48	Retrospective respiration-gated whole-body photoacoustic computed tomography of mice. Journal of Biomedical Optics, 2014, 19, 1.	2.6	36
49	Photoacoustic measurement of the Gr <sup>1/4</sup> neisen parameter of tissue. Journal of Biomedical Optics, 2014, 19, 017007.	2.6	92
50	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
51	Handheld photoacoustic microscopy to detect melanoma depth <i>in vivo</i> . Optics Letters, 2014, 39, 4731.	3.3	98
52	Near-infrared Optical-resolution Photoacoustic Microscopy with 1046 nm Illumination. , 2014, , .		0
53	Urogenital photoacoustic endoscope. Optics Letters, 2014, 39, 1473.	3.3	38
54	Fully motorized optical-resolution photoacoustic microscopy. Optics Letters, 2014, 39, 2117.	3.3	69

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55	Fully motorized optical-resolution photoacoustic microscopy. , 2014, , .		0
56	Ultrasonically Encoded Photoacoustic Flowgraphy in Biological Tissue. Physical Review Letters, 2013, 111, 204301.	7.8	63
57	Photoacoustic and optical coherence tomography of epilepsy with high temporal and spatial resolution and dual optical contrasts. Journal of Neuroscience Methods, 2013, 216, 142-145.	2.5	54
58	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
59	Combined optical- and acoustic-resolution photoacoustic microscopy based on an optical fiber bundle. , 2013, , .		0
60	Noninvasive photoacoustic computed tomography of mouse brain metabolism in vivo. NeuroImage, 2013, 64, 257-266.	4.2	199
61	Enhancement of photoacoustic tomography by ultrasonic computed tomography based on optical excitation of elements of a full-ring transducer array. Optics Letters, 2013, 38, 3140.	3.3	86
62	Water-Immersion MEMS scanning mirror designed for wide-field fast-scanning photoacoustic microscopy. Proceedings of SPIE, 2013, , .	0.8	1
63	Noninvasive photoacoustic computed tomography of mouse brain metabolism <i>in vivo</i> . Proceedings of SPIE, 2013, , .	0.8	4
64	Towards single molecule detection using photoacoustic microscopy. , 2013, , .		1
65	Video-rate photoacoustic microscopy of micro-vasculatures. , 2013, , .		0
66	Photoacoustic microscopy with 7.6- $\mu$ m axial resolution. , 2013, , .		0
67	Blood pulse wave velocity measured by photoacoustic microscopy. , 2013, , .		0
68	Photoacoustic endoscopic imaging of the rabbit mediastinum. , 2013, , .		0
69	Anatomical and metabolic small-animal whole-body imaging using ring-shaped confocal photoacoustic computed tomography. , 2013, , .		2
70	A parabolic mirror-based proximally actuated photoacoustic endoscope. Proceedings of SPIE, 2013, , .	0.8	0
71	Integrated optical- and acoustic-resolution photoacoustic microscopy based on an optical fiber bundle. Optics Letters, 2013, 38, 52.	3.3	59
72	Calibration-free quantification of absolute oxygen saturation based on the dynamics of photoacoustic signals. Optics Letters, 2013, 38, 2800.	3.3	50

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73	Wide-field two-dimensional multifocal optical-resolution photoacoustic-computed microscopy. Optics Letters, 2013, 38, 5236.	3.3	50
74	Random-access optical-resolution photoacoustic microscopy using a digital micromirror device. Optics Letters, 2013, 38, 2683.	3.3	38
75	Calibration-free in vivo transverse blood flowmetry based on cross correlation of slow time profiles from photoacoustic microscopy. Optics Letters, 2013, 38, 3882.	3.3	48
76	Ultrasound-heated photoacoustic flowmetry. Journal of Biomedical Optics, 2013, 18, 117003.	2.6	21
77	Reflection-mode multifocal optical-resolution photoacoustic microscopy. Journal of Biomedical Optics, 2013, 18, 1.	2.6	23
78	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
79	Improving limited-view photoacoustic tomography with an acoustic reflector. Journal of Biomedical Optics, 2013, 18, 110505.	2.6	52
80	Multifocal optical-resolution photoacoustic microscopy in reflection mode. Proceedings of SPIE, 2013, , .	0.8	0
81	Structured-illumination photoacoustic Doppler flowmetry of axial flow in homogeneous scattering media. Applied Physics Letters, 2013, 103, 94101.	3.3	14
82	Single-cell label-free photoacoustic flowoxigraphy in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5759-5764.	7.1	191
83	Ultrasound sensing using a fiber coupled silica microtoroid resonator encapsulated in a polymer. , 2013, , .		7
84	Noise-equivalent sensitivity of photoacoustics. Journal of Biomedical Optics, 2013, 18, 097003.	2.6	99
85	Three-Dimensional Optical-Resolution Photoacoustic Microscopy. Biological and Medical Physics Series, 2013, , 55-77.	0.4	2
86	<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
87	Wide-field fast-scanning photoacoustic microscopy based on a water-immersible MEMS scanning mirror. Journal of Biomedical Optics, 2012, 17, 1.	2.6	122
88	Tumor glucose metabolism imaged <i>in vivo</i> in small animals with whole-body photoacoustic computed tomography. Journal of Biomedical Optics, 2012, 17, 0760121.	2.6	62
89	Reflection-mode submicron-resolution in vivo photoacoustic microscopy. Journal of Biomedical Optics, 2012, 17, 020501.	2.6	102
90	Video-rate functional photoacoustic microscopy at depths. Journal of Biomedical Optics, 2012, 17, 1.	2.6	60

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91	In vivo photoacoustic microscopy with 7.6-Åµm axial resolution using a commercial 125-MHz ultrasonic transducer. Journal of Biomedical Optics, 2012, 17, 1.	2.6	113
92	Volumetric Photoacoustic Endoscopy. , 2012, , .		1
93	Double-illumination photoacoustic microscopy. Optics Letters, 2012, 37, 659.	3.3	57
94	Photoacoustic tomography through a whole adult human skull with a photon recycler. Journal of Biomedical Optics, 2012, 17, 110506.	2.6	105
95	Double-illumination photoacoustic microscopy of intestinal hemodynamics following massive small bowel resection. Proceedings of SPIE, 2012, , .	0.8	1
96	Spectrally encoded photoacoustic microscopy using a digital mirror device. Journal of Biomedical Optics, 2012, 17, 066020.	2.6	17
97	Photoacoustic microscopy of blood pulse wave. Journal of Biomedical Optics, 2012, 17, 0705041.	2.6	32
98	Whole-body ring-shaped confocal photoacoustic computed tomography of small animals in vivo. Journal of Biomedical Optics, 2012, 17, 1.	2.6	143
99	Ring-shaped confocal photoacoustic computed tomography for small-animal whole-body imaging. Proceedings of SPIE, 2012, , .	0.8	1
100	Functional photoacoustic microscopy of pH. Proceedings of SPIE, 2012, , .	0.8	0
101	In vivo photoacoustic tomography of total blood flow and Doppler angle. , 2012, , .		0
102	Vessel segmentation analysis of ischemic stroke images acquired with photoacoustic microscopy. Proceedings of SPIE, 2012, , .	0.8	11
103	In vivo imaging of cell nuclei by photoacoustic microscopy without staining. Proceedings of SPIE, 2012, , .	0.8	1
104	Photoacoustic and thermoacoustic imaging with a multichannel breast scanner. , 2012, , .		2
105	Wide range quantitative photoacoustic spectroscopy to measure non-linear optical absorption of hemoglobin. , 2012, , .		1
106	Toward dual-wavelength functional photoacoustic endoscopy: laser and peripheral optical systems development. Proceedings of SPIE, 2012, , .	0.8	5
107	DMD-encoded spectral photoacoustic microscopy. , 2012, , .		1
108	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

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109	Simultaneous functional photoacoustic and ultrasonic endoscopy of internal organs in vivo. Nature Medicine, 2012, 18, 1297-1302.	30.7	378
110	Dichroism optical-resolution photoacoustic microscopy. , 2012, , .		2
111	Optimal ultraviolet wavelength for <i>in vivo</i> photoacoustic imaging of cell nuclei. Journal of Biomedical Optics, 2012, 17, 056004.	2.6	61
112	In vivo imaging of epileptic activity using 2-NBDG, a fluorescent deoxyglucose analog. Journal of Neuroscience Methods, 2012, 203, 136-140.	2.5	53
113	Living Brain Optical Imaging: Technology, Methods and Applications. Journal of Neuroscience and Neuroengineering, 2012, 1, 180-192.	0.2	31
114	Ring-shaped confocal photoacoustic computed tomography for small-animal whole-body imaging. , 2012, , .		0
115	Water-Immersible MEMS Scanning Mirror Enhanced Optical-Resolution Photoacoustic Microscopy. , 2012, , .		2
116	Spectrally Encoded Photoacoustic Microscopy Using a Digital Mirror Device. , 2012, , .		0
117	Reflection-mode submicron-resolution photoacoustic microscopy in vivo. , 2012, , .		2
118	Optimal oblique light illumination for photoacoustic microscopy beyond the diffusion limit. Proceedings of SPIE, 2011, , .	0.8	1
119	Fast voice-coil scanning optical-resolution photoacoustic microscopy. Optics Letters, 2011, 36, 139.	3.3	180
120	Single-wavelength functional photoacoustic microscopy in biological tissue. Optics Letters, 2011, 36, 769.	3.3	42
121	In vivo integrated photoacoustic and confocal microscopy of hemoglobin oxygen saturation and oxygen partial pressure. Optics Letters, 2011, 36, 1029.	3.3	116
122	Second-generation optical-resolution photoacoustic microscopy with improved sensitivity and speed. Optics Letters, 2011, 36, 1134.	3.3	378
123	Real-time four-dimensional optical-resolution photoacoustic microscopy with Au nanoparticle-assisted subdiffraction-limit resolution. Optics Letters, 2011, 36, 1137.	3.3	66
124	Multifocal optical-resolution photoacoustic microscopy in vivo. Optics Letters, 2011, 36, 1236.	3.3	56
125	Optical-resolution photoacoustic microscopy of ischemic stroke. Proceedings of SPIE, 2011, , .	0.8	16
126	Noninvasive quantification of metabolic rate of oxygen (MRO <sub>2</sub> ) by photoacoustic microscopy. , 2011, , .		2



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127	Photoacoustic image-guided needle biopsy of sentinel lymph nodes. Proceedings of SPIE, 2011, , .	0.8	2
128	High speed inverted optical-resolution photoacoustic microscopy. Proceedings of SPIE, 2011, , .	0.8	0
129	Volumetric photoacoustic endoscopy of upper gastrointestinal tract: ultrasonic transducer technology development. Proceedings of SPIE, 2011, , .	0.8	7
130	Integrated photoacoustic and fluorescence confocal microscopy. , 2011, , .		3
131	Conditional HIF-1 induction produces multistage neovascularization with stage-specific sensitivity to VEGFR inhibitors and myeloid cell independence. Blood, 2011, 117, 4142-4153.	1.4	79
132	Development of real-time photoacoustic microscopy. Proceedings of SPIE, 2011, , .	0.8	0
133	Three-dimensional Optical-resolution Photoacoustic Microscopy. Journal of Visualized Experiments, 2011, , .	0.3	16
134	Three-dimensional photoacoustic tomography based on the focal-line concept. Journal of Biomedical Optics, 2011, 16, 1.	2.6	70
135	Subwavelength-resolution photoacoustic microscopy for label-free detection of optical absorption in vivo. Proceedings of SPIE, 2011, , .	0.8	1
136	VEGF is essential for hypoxia-inducible factor-mediated neovascularization but dispensable for endothelial sprouting. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13264-13269.	7.1	159
137	Label-free oxygen-metabolic photoacoustic microscopy in vivo. Journal of Biomedical Optics, 2011, 16, 076003.	2.6	278
138	Photoacoustic microscopy of microvascular responses to cortical electrical stimulation. Journal of Biomedical Optics, 2011, 16, 1.	2.6	54
139	Fiber-laser-based photoacoustic microscopy and melanoma cell detection. Journal of Biomedical Optics, 2011, 16, 011014.	2.6	75
140	Functional photoacoustic microscopy of pH. Journal of Biomedical Optics, 2011, 16, 100503.	2.6	32
141	Second generation optical-resolution photoacoustic microscopy. , 2011, , .		1
142	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
143	PHOTOACOUSTIC GENERATION OF FOCUSED QUASI-UNIPOLAR PRESSURE PULSES. Journal of Innovative Optical Health Sciences, 2010, 03, 247-253.	1.0	4
144	Handheld array-based photoacoustic probe for guiding needle biopsy of sentinel lymph nodes. Journal of Biomedical Optics, 2010, 15, 1.	2.6	134

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145	Ultrasound-array-based real-time photoacoustic microscopy of human pulsatile dynamics in vivo. Journal of Biomedical Optics, 2010, 15, 1.	2.6	53
146	Photoacoustic microscopy with 2- $\mu\text{m}$ transverse resolution. Journal of Biomedical Optics, 2010, 15, 1.	2.6	55
147	In vivo functional human imaging using photoacoustic microscopy: response to ischemic and thermal stimuli. Proceedings of SPIE, 2010, , .	0.8	2
148	Sentinel Lymph Nodes in the Rat: Noninvasive Photoacoustic and US Imaging with a Clinical US System. Radiology, 2010, 256, 102-110.	7.3	225
149	Invasive and transcranial photoacoustic imaging of the vascular response to brain electrical stimulation. , 2010, , .		0
150	Fast-scanning reflection-mode integrated photoacoustic and optical-coherence microscopy. Proceedings of SPIE, 2010, , .	0.8	4
151	Ultrasound array photoacoustic microscopy for dynamic in vivo 3D imaging. Proceedings of SPIE, 2010, , .	0.8	0
152	Transverse flow measurement using photoacoustic Doppler bandwidth broadening: phantom and in vivo studies. Proceedings of SPIE, 2010, , .	0.8	3
153	Photoacoustic microscopy with submicron resolution. Proceedings of SPIE, 2010, , .	0.8	6
154	Volumetric photoacoustic endoscopy of internal organs: a phantom and in situ study. , 2010, , .		4
155	Optical-resolution photoacoustic microscopy of angiogenesis in a transgenic mouse model. Proceedings of SPIE, 2010, , .	0.8	10
156	Photoacoustic microscopy using Evans Blue dye as a contrast agent. Proceedings of SPIE, 2010, , .	0.8	0
157	In vivo label-free photoacoustic microscopy of the anterior segment of the mouse eye. , 2010, , .		4
158	Optical-resolution photoacoustic microscopy of amyloid- $\beta^2$ deposits in vivo. , 2010, , .		2
159	In vivo photoacoustic and ultrasonic mapping of rat sentinel lymph nodes with a modified commercial ultrasound imaging system. Proceedings of SPIE, 2010, , .	0.8	0
160	Label-free photoacoustic ophthalmic angiography. Optics Letters, 2010, 35, 1.	3.3	138
161	In vivo photoacoustic imaging of transverse blood flow by using Doppler broadening of bandwidth. Optics Letters, 2010, 35, 1419.	3.3	182
162	Section-illumination photoacoustic microscopy for dynamic 3D imaging of microcirculation in vivo. Optics Letters, 2010, 35, 1482.	3.3	33

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163	Hybrid-scanning optical-resolution photoacoustic microscopy for in vivo vasculature imaging. Optics Letters, 2010, 35, 1521.	3.3	88
164	Subwavelength-resolution label-free photoacoustic microscopy of optical absorption in vivo. Optics Letters, 2010, 35, 3195.	3.3	251
165	In vivo label-free photoacoustic microscopy of cell nuclei by excitation of DNA and RNA. Optics Letters, 2010, 35, 4139.	3.3	184
166	Picosecond absorption relaxation measured with nanosecond laser photoacoustics. Applied Physics Letters, 2010, 97, 163701.	3.3	41
167	Integrated Photoacoustic and Fluorescence Confocal Microscopy. IEEE Transactions on Biomedical Engineering, 2010, 57, 2576-2578.	4.2	74
168	Optical-resolution photoacoustic microscopy with improved sensitivity and scanning speed. , 2010, , .		1
169	Dynamic High-Resolution 3-D Photoacoustic Microscopy with Cylindrically Focused Optical Illumination. , 2010, , .		0
170	Simultaneously Imaging Oxygen Saturation and Blood Flow Using Optical-resolution Photoacoustic Microscopy. , 2010, , .		0
171	<i>In vivo</i> functional chronic imaging of a small animal model using optical-resolution photoacoustic microscopy. Medical Physics, 2009, 36, 2320-2323.	3.0	64
172	Noninvasive, in vivo imaging of the mouse brain using photoacoustic microscopy. Journal of Applied Physics, 2009, 105, 102027.	2.5	52
173	Photoacoustic microscopy of cerebral blood-oxygenation dynamics in mice. Proceedings of SPIE, 2009, , .	0.8	0
174	Fast 3-D photoacoustic imaging in vivo with a high frequency ultrasound array toward clinical applications. , 2009, , .		0
175	In vivo noninvasive monitoring of microhemodynamics using optical-resolution photoacoustic microscopy. Proceedings of SPIE, 2009, , .	0.8	0
176	Monitoring the healing process of laser-induced microvascular lesions using optical-resolution photoacoustic microscopy. Proceedings of SPIE, 2009, , .	0.8	3
177	M -mode photoacoustic flow imaging. Proceedings of SPIE, 2009, , .	0.8	2
178	Endoscopic photoacoustic microscopy. , 2009, , .		6
179	In-vivo imaging of microcirculation using integrated photoacoustic and optical-coherence microscopy. Proceedings of SPIE, 2009, , .	0.8	3
180	Evans blue dye-enhanced capillary-resolution photoacoustic microscopy in vivo. Journal of Biomedical Optics, 2009, 14, 1.	2.6	69

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181	Ring-shaped light illumination ultrasound-modulated optical tomography and its application for sentinel lymph node mapping ex vivo. , 2009, , .		0
182	Noninvasive, in vivo imaging of blood-oxygenation dynamics within the mouse brain using photoacoustic microscopy. Journal of Biomedical Optics, 2009, 14, 020502.	2.6	112
183	Ultrasound-modulated optical tomography in reflection mode with ring-shaped light illumination. Journal of Biomedical Optics, 2009, 14, 024015.	2.6	8
184	Functional transcranial brain imaging by optical-resolution photoacoustic microscopy. Journal of Biomedical Optics, 2009, 14, 1.	2.6	151
185	Automatic algorithm for skin profile detection in photoacoustic microscopy. Journal of Biomedical Optics, 2009, 14, 024050.	2.6	25
186	Noninvasive in vivo spectroscopic nanorod-contrast photoacoustic mapping of sentinel lymph nodes. European Journal of Radiology, 2009, 70, 227-231.	2.6	145
187	Photoacoustic endoscopy. Optics Letters, 2009, 34, 1591.	3.3	217
188	Intravital imaging of amyloid plaques in a transgenic mouse model using optical-resolution photoacoustic microscopy. Optics Letters, 2009, 34, 3899.	3.3	83
189	Noninvasive label-free imaging of microhemodynamics by optical-resolution photoacoustic microscopy. Optics Express, 2009, 17, 7688.	3.4	115
190	Three-dimensional combined photoacoustic and optical coherence microscopy for in vivo microcirculation studies. Optics Express, 2009, 17, 16450.	3.4	100
191	High-speed dynamic 3D photoacoustic imaging of sentinel lymph node in a murine model using an ultrasound array. Medical Physics, 2009, 36, 3724-3729.	3.0	64
192	Optical-resolution photoacoustic microscopy for in vivo imaging of single capillaries. Optics Letters, 2008, 33, 929.	3.3	710
193	Optical-resolution confocal photoacoustic microscopy. Proceedings of SPIE, 2008, , .	0.8	11
194	Fast 3-D dark-field reflection-mode photoacoustic microscopy in vivo with a 30-MHz ultrasound linear array. Journal of Biomedical Optics, 2008, 13, 1.	2.6	66
195	Photoacoustic imaging of biological tissue with intensity-modulated continuous-wave laser. Journal of Biomedical Optics, 2008, 13, 024006.	2.6	132
196	Noninvasive mapping of the electrically stimulated mouse brain using photoacoustic microscopy. , 2008, , .		8
197	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
198	SIMULTANEOUS IMAGING OF A lacZ-MARKED TUMOR AND MICROVASCULATURE MORPHOLOGY <i>IN VIVO</i> BY DUAL-WAVELENGTH PHOTOACOUSTIC MICROSCOPY. Journal of Innovative Optical Health Sciences, 2008, 01, 207-215.	1.0	45

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199	Photoacoustic generation of focused ultrasonic pulses with predefined temporal profiles including quasi-unipolar pressure pulses. , 2008, , .		1
200	Limitations of quantitative photoacoustic measurements of blood oxygenation in small vessels. Physics in Medicine and Biology, 2007, 52, 1349-1361.	3.0	100
201	Photoacoustic Doppler Effect from Flowing Small Light-Absorbing Particles. Physical Review Letters, 2007, 99, 184501.	7.8	146
202	Continuous-wave photoacoustic microscopy. , 2007, , .		6
203	High-resolution burn imaging in pig skin by photoacoustic microscopy. , 2007, , .		3
204	Portable real-time photoacoustic microscopy. , 2007, , .		7
205	Effects of wavelength-dependent fluence attenuation on the noninvasive photoacoustic imaging of hemoglobin oxygen saturation in subcutaneous vasculature in vivo. Inverse Problems, 2007, 23, S113-S122.	2.0	111
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