

Lidai Wang

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

5,197
citations

81743

39
h-index

88477

70
g-index

106
all docs

106
docs citations

106
times ranked

3964
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution photoacoustic microscopy with deep penetration through learning. <i>Photoacoustics</i> , 2022, 25, 100314.	4.4	19
2	Photoacoustic/Fluorescence Dual-Modality Probe for Biothiol Discrimination and Tumor Diagnosis in Cells and Mice. <i>ACS Sensors</i> , 2022, 7, 1105-1112.	4.0	23
3	Functional photoacoustic microscopy of hemodynamics: a review. <i>Biomedical Engineering Letters</i> , 2022, 12, 97-124.	2.1	21
4	Super-Resolution Photoacoustic Microscopy via Modified Phase Compounding. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 3411-3420.	5.4	4
5	Adaptive dual-speed ultrasound and photoacoustic computed tomography. <i>Photoacoustics</i> , 2022, 27, 100380.	4.4	10
6	Two-step proximal gradient descent algorithm for photoacoustic signal unmixing. <i>Photoacoustics</i> , 2022, 27, 100379.	4.4	5
7	Implantable Electronic Medicine Enabled by Bioresorbable Microneedles for Wireless Electrotherapy and Drug Delivery. <i>Nano Letters</i> , 2022, 22, 5944-5953.	4.5	36
8	Controllable Cleavage of C–N Bond-Based Fluorescent and Photoacoustic Dual-Modal Probes for the Detection of H ₂ S in Living Mice. <i>ACS Applied Bio Materials</i> , 2021, 4, 2020-2025.	2.3	22
9	Near-infrared double-illumination optical-resolution photoacoustic microscopy. <i>Journal of Biophotonics</i> , 2021, 14, e202000392.	1.1	2
10	Five-wavelength optical-resolution photoacoustic microscopy of blood and lymphatic vessels. <i>Advanced Photonics</i> , 2021, 3, .	6.2	42
11	Confocal Visible/NIR Photoacoustic Microscopy of Early-stage Tumor with Structural, Functional and Nanoprobe Contrasts. , 2021, , .		0
12	Review of photoacoustic imaging for microrobots tracking in vivo [Invited]. <i>Chinese Optics Letters</i> , 2021, 19, 111701.	1.3	13
13	Bioinspired Ultrathin Piecewise Controllable Soft Robots. <i>Advanced Materials Technologies</i> , 2021, 6, 2001095.	3.0	27
14	Trans-illumination intestine projection imaging of intestinal motility in mice. <i>Nature Communications</i> , 2021, 12, 1682.	5.8	6
15	NIR-Absorbing Semiconducting Polymer-Triggered Gene-Directed Enzyme Prodrug Therapy for Cancer Treatment. <i>Small</i> , 2021, 17, e2100501.	5.2	15
16	Special issue – Photoacoustic imaging: microscopy, tomography, and their recent applications in biomedicine – in visual computation for industry, biomedicine, and art. <i>Visual Computing for Industry, Biomedicine, and Art</i> , 2021, 4, 16.	2.2	3
17	Rotational-invariant speckle-scanning ultrasonography through thick bones. <i>Scientific Reports</i> , 2021, 11, 14178.	1.6	0
18	Plasmonic-doped melanin-mimic for CXCR4-targeted NIR-II photoacoustic computed tomography-guided photothermal ablation of orthotopic hepatocellular carcinoma. <i>Acta Biomaterialia</i> , 2021, 129, 245-257.	4.1	15

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19	Dual-foci fast-scanning photoacoustic microscopy with 3.2-MHz A-line rate. <i>Photoacoustics</i> , 2021, 23, 100292.	4.4	9
20	A multifunctional targeted nanoprobe with high NIR-II PAI/MRI performance for precise theranostics of orthotopic early-stage hepatocellular carcinoma. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8779-8792.	2.9	15
21	Self-Fluence-Compensated Functional Photoacoustic Microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3856-3866.	5.4	14
22	A Spatial Compounding Method for Non-Delayed Sequential Beamforming. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9200.	1.3	0
23	Low-consumption photoacoustic method to measure liquid viscosity. <i>Biomedical Optics Express</i> , 2021, 12, 7139.	1.5	9
24	Multi-Scale Photoacoustic Assessment of Wound Healing Using Chitosanâ€“Graphene Oxide Hemostatic Sponge. <i>Nanomaterials</i> , 2021, 11, 2879.	1.9	9
25	In vivo functional brain imaging by using a broadband fiber optic photoacoustic probe. , 2021, , .		0
26	A new deep learning method for image deblurring in optical microscopic systems. <i>Journal of Biophotonics</i> , 2020, 13, e201960147.	1.1	35
27	Single-shot photoacoustic microscopy of hemoglobin concentration, oxygen saturation, and blood flow in sub-microseconds. <i>Photoacoustics</i> , 2020, 17, 100156.	4.4	56
28	Organic semiconducting polymer amphiphile for near-infrared-II light-triggered phototheranostics. <i>Biomaterials</i> , 2020, 232, 119684.	5.7	96
29	An invertible wavefront switching system with a high extinction ratio. <i>Optics and Laser Technology</i> , 2020, 131, 106466.	2.2	0
30	An Esterâ€“Substituted Semiconducting Polymer with Efficient Nonradiative Decay Enhances NIRâ€“Photoacoustic Performance for Monitoring of Tumor Growth. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23268-23276.	7.2	76
31	Development of Magnetâ€“Driven and Imageâ€“Guided Degradable Microrobots for the Precise Delivery of Engineered Stem Cells for Cancer Therapy. <i>Small</i> , 2020, 16, e1906908.	5.2	84
32	An Esterâ€“Substituted Semiconducting Polymer with Efficient Nonradiative Decay Enhances NIRâ€“Photoacoustic Performance for Monitoring of Tumor Growth. <i>Angewandte Chemie</i> , 2020, 132, 23468-23476.	1.6	7
33	Development of a molecular K ⁺ probe for colorimetric/fluorescent/photoacoustic detection of K ⁺ . <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6947-6957.	1.9	19
34	Video-Rate Ring-Array Ultrasound and Photoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4369-4375.	5.4	45
35	Micro-rocket robot with all-optic actuating and tracking in blood. <i>Light: Science and Applications</i> , 2020, 9, 84.	7.7	100
36	Wide-field polygon-scanning photoacoustic microscopy of oxygen saturation at 1-MHz A-line rate. <i>Photoacoustics</i> , 2020, 20, 100195.	4.4	62

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37	Mechanics designs-performance relationships in epidermal triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 76, 105017.	8.2	24
38	Effective Phototheranostics of Brain Tumor Assisted by Near-Infrared-II Light-Responsive Semiconducting Polymer Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33492-33499.	4.0	100
39	Rational Design of Conjugated Small Molecules for Superior Photothermal Theranostics in the NIR-II Biowindow. <i>Advanced Materials</i> , 2020, 32, e2001146.	11.1	204
40	Optical-resolution photoacoustic microscopy with ultrafast dual-wavelength excitation. <i>Journal of Biophotonics</i> , 2020, 13, e201960229.	1.1	28
41	Snapshot photoacoustic topography through an ergodic relay for high-throughput imaging of optical absorption. <i>Nature Photonics</i> , 2020, 14, 164-170.	15.6	70
42	SNR-enhanced fiber-laser ultrasound sensors for photoacoustic tomography*. , 2020, , .		1
43	Photoacoustic imaging of microenvironmental changes in facial cupping therapy. <i>Biomedical Optics Express</i> , 2020, 11, 2394.	1.5	18
44	Photoacoustic computed tomography by using a multi-angle scanning fiber-laser ultrasound sensor. <i>Optics Express</i> , 2020, 28, 8744.	1.7	14
45	High acoustic numerical aperture photoacoustic microscopy with improved sensitivity. <i>Optics Letters</i> , 2020, 45, 628.	1.7	11
46	Acoustic-spectrum-compensated photoacoustic microscopy. <i>Optics Letters</i> , 2020, 45, 1850.	1.7	7
47	Multiscale high-speed photoacoustic microscopy based on free-space light transmission and a MEMS scanning mirror. <i>Optics Letters</i> , 2020, 45, 4312.	1.7	25
48	Confocal visible/NIR photoacoustic microscopy of tumors with structural, functional, and nanoprobe contrasts. <i>Photonics Research</i> , 2020, 8, 1875.	3.4	25
49	3D printed microstructures for flexible electronic devices. <i>Nanotechnology</i> , 2019, 30, 414001.	1.3	26
50	Characterizing Nanoparticle Swarms With Tuneable Concentrations for Enhanced Imaging Contrast. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 2942-2949.	3.3	36
51	Dual-Polarized Fiber Laser Sensor for Photoacoustic Microscopy. <i>Sensors</i> , 2019, 19, 4632.	2.1	7
52	Compressed Ultrafast Spectral-Temporal Photography. <i>Physical Review Letters</i> , 2019, 122, 193904.	2.9	54
53	Single-shot linear dichroism optical-resolution photoacoustic microscopy. <i>Photoacoustics</i> , 2019, 16, 100148.	4.4	29
54	Optical-resolution photoacoustic microscopy of oxygen saturation with nonlinear compensation. <i>Biomedical Optics Express</i> , 2019, 10, 3061.	1.5	39

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55	Noise-reduced optical ultrasound sensor via signal duplication for photoacoustic microscopy. <i>Optics Letters</i> , 2019, 44, 2665.	1.7	6
56	Hybrid MoSe ₂ –indocyanine green nanosheets as a highly efficient phototheranostic agent for photoacoustic imaging guided photothermal cancer therapy. <i>Biomaterials Science</i> , 2018, 6, 1503-1516.	2.6	46
57	Organic Semiconducting Polymer Nanoparticles for Photoacoustic Labeling and Tracking of Stem Cells in the Second Near-Infrared Window. <i>ACS Nano</i> , 2018, 12, 12201-12211.	7.3	127
58	Switchable Photoacoustic Imaging of Glutathione Using MnO ₂ Nanotubes for Cancer Diagnosis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44231-44239.	4.0	34
59	Fast-scanning photoacoustic microscopy with a side-looking fiber optic ultrasound sensor. <i>Biomedical Optics Express</i> , 2018, 9, 5809.	1.5	22
60	Fiber-Laser-Based Ultrasound Sensor for Photoacoustic Imaging. <i>Scientific Reports</i> , 2017, 7, 40849.	1.6	42
61	Single-impulse panoramic photoacoustic computed tomography of small-animal whole-body dynamics at high spatiotemporal resolution. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	334
62	High-speed photoacoustic microscopy of mouse cortical microhemodynamics. <i>Journal of Biophotonics</i> , 2017, 10, 792-798.	1.1	25
63	Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. <i>Nature Communications</i> , 2017, 8, 1386.	5.8	104
64	Fiber laser based ultrasound sensor for photoacoustic imaging. , 2017, , .		9
65	Deep tissue photoacoustic computed tomography with a fast and compact laser system. <i>Biomedical Optics Express</i> , 2017, 8, 112.	1.5	55
66	Sensitivity characteristics of broadband fiber-laser-based ultrasound sensors for photoacoustic microscopy. <i>Optics Express</i> , 2017, 25, 17616.	1.7	20
67	2-µm multi-wavelength pulsed laser for functional photoacoustic microscopy. <i>Optics Letters</i> , 2017, 42, 1452.	1.7	53
68	In vivo label-free photoacoustic flow cytography and on-the-spot laser killing of single circulating melanoma cells. <i>Scientific Reports</i> , 2016, 6, 39616.	1.6	69
69	Handheld optical-resolution photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2016, 22, 041002.	1.4	54
70	Multiscale photoacoustic tomography using reversibly switchable bacterial phytochrome as a near-infrared photochromic probe. <i>Nature Methods</i> , 2016, 13, 67-73.	9.0	206
71	Photoacoustically guided wavefront shaping for enhanced optical focusing in scattering media. <i>Nature Photonics</i> , 2015, 9, 126-132.	15.6	249
72	High-speed label-free functional photoacoustic microscopy of mouse brain in action. <i>Nature Methods</i> , 2015, 12, 407-410.	9.0	555

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73	Ultrasonic-heating-encoded photoacoustic tomography with virtually augmented detection view. <i>Optica</i> , 2015, 2, 307.	4.8	28
74	Bessel-beam Grueneisen relaxation photoacoustic microscopy with extended depth of field. <i>Journal of Biomedical Optics</i> , 2015, 20, 116002.	1.4	38
75	In vivo optically encoded photoacoustic flowgraphy. <i>Optics Letters</i> , 2014, 39, 3814.	1.7	16
76	Calibration-free structured-illumination photoacoustic flowgraphy of transverse flow in scattering media. <i>Journal of Biomedical Optics</i> , 2014, 19, 046007.	1.4	9
77	Label-free photoacoustic nanoscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 1.	1.4	124
78	Photoimprint Photoacoustic Microscopy for Three-Dimensional Label-Free Subdiffraction Imaging. <i>Physical Review Letters</i> , 2014, 112, 014302.	2.9	111
79	Grueneisen Relaxation Photoacoustic Microscopy. <i>Physical Review Letters</i> , 2014, 113, 174301.	2.9	126
80	Fully motorized optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2014, 39, 2117.	1.7	69
81	Ultrasonically Encoded Photoacoustic Flowgraphy in Biological Tissue. <i>Physical Review Letters</i> , 2013, 111, 204301.	2.9	63
82	Up-regulation of hypoxia-inducible factor 1 alpha and hemodynamic responses following massive small bowel resection. <i>Journal of Pediatric Surgery</i> , 2013, 48, 1330-1339.	0.8	7
83	Integrated optical- and acoustic-resolution photoacoustic microscopy based on an optical fiber bundle. <i>Optics Letters</i> , 2013, 38, 52.	1.7	59
84	Calibration-free quantification of absolute oxygen saturation based on the dynamics of photoacoustic signals. <i>Optics Letters</i> , 2013, 38, 2800.	1.7	50
85	Wide-field two-dimensional multifocal optical-resolution photoacoustic-computed microscopy. <i>Optics Letters</i> , 2013, 38, 5236.	1.7	50
86	Ultrasound-heated photoacoustic flowmetry. <i>Journal of Biomedical Optics</i> , 2013, 18, 117003.	1.4	21
87	Single-cell label-free photoacoustic flowoxigraphy in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5759-5764.	3.3	191
88	Labeling Human Mesenchymal Stem Cells with Gold Nanocages for <i>in vitro</i> and <i>in vivo</i> Tracking by Two-Photon Microscopy and Photoacoustic Microscopy. <i>Theranostics</i> , 2013, 3, 532-543.	4.6	92
89	Wide-field fast-scanning photoacoustic microscopy based on a water-immersible MEMS scanning mirror. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	1.4	122
90	Video-rate functional photoacoustic microscopy at depths. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	1.4	60

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91	Immediate alterations in intestinal oxygen saturation and blood flow after massive small bowel resection as measured by photoacoustic microscopy. <i>Journal of Pediatric Surgery</i> , 2012, 47, 1143-1149.	0.8	32
92	Fast voice-coil scanning optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2011, 36, 139.	1.7	180
93	Robotic manipulation of adhesive droplets for applications in microassembly. , 2009, , .		3
94	Novel approach for microassembly of three-dimensional rotary MOEMS mirrors. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2009, 8, 043035.	1.0	4
95	Automatic Microassembly Using Visual Servo Control. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2008, 31, 316-325.	1.6	45
96	Vision-Based 2-D Automatic Micrograsping Using Coarse-to-Fine Grasping Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2008, 55, 3324-3331.	5.2	44
97	Assembly of three-dimensional microsystems using a hybrid manipulation strategy. , 2008, , .		1
98	Adhesive mechanical fastener design for use in microassembly. <i>Canadian Conference on Electrical and Computer Engineering</i> , 2008, , .	0.0	3
99	Development of an electron tunneling force sensor for the use in microassembly. , 2008, , .		1
100	3-D Automatic Microassembly by Vision-Based Control. , 2007, , .		12
101	Automatic 3D Joining in Microassembly. , 2007, , .		6
102	A Test-Bed for Visual Servo Control of Artificial Muscle Micro-Robot with Parallel Architecture. , 2006, , .		3