

Lidai Wang

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

5,197
citations

81900

39
h-index

88630

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.	7.8	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.	7.8	23
3	Functional photoacoustic microscopy of hemodynamics: a review. <i>Biomedical Engineering Letters</i> , 2022, 12, 97-124.	4.1	21
4	Super-Resolution Photoacoustic Microscopy via Modified Phase Compounding. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 3411-3420.	8.9	4
5	Adaptive dual-speed ultrasound and photoacoustic computed tomography. <i>Photoacoustics</i> , 2022, 27, 100380.	7.8	10
6	Two-step proximal gradient descent algorithm for photoacoustic signal unmixing. <i>Photoacoustics</i> , 2022, 27, 100379.	7.8	5
7	Implantable Electronic Medicine Enabled by Bioresorbable Microneedles for Wireless Electrotherapy and Drug Delivery. <i>Nano Letters</i> , 2022, 22, 5944-5953.	9.1	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.	4.6	22
9	Near-infrared double-illumination optical-resolution photoacoustic microscopy. <i>Journal of Biophotonics</i> , 2021, 14, e202000392.	2.3	2
10	Five-wavelength optical-resolution photoacoustic microscopy of blood and lymphatic vessels. <i>Advanced Photonics</i> , 2021, 3, .	11.8	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.	2.9	13
13	Bioinspired Ultrathin Piecewise Controllable Soft Robots. <i>Advanced Materials Technologies</i> , 2021, 6, 2001095.	5.8	27
14	Trans-illumination intestine projection imaging of intestinal motility in mice. <i>Nature Communications</i> , 2021, 12, 1682.	12.8	6
15	NIR-Absorbing Semiconducting Polymer-Triggered Gene-Directed Enzyme Prodrug Therapy for Cancer Treatment. <i>Small</i> , 2021, 17, e2100501.	10.0	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.	3.7	3
17	Rotational-invariant speckle-scanning ultrasonography through thick bones. <i>Scientific Reports</i> , 2021, 11, 14178.	3.3	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.	8.3	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.	7.8	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.	5.8	15
21	Self-Fluence-Compensated Functional Photoacoustic Microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3856-3866.	8.9	14
22	A Spatial Compounding Method for Non-Delayed Sequential Beamforming. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9200.	2.5	0
23	Low-consumption photoacoustic method to measure liquid viscosity. <i>Biomedical Optics Express</i> , 2021, 12, 7139.	2.9	9
24	Multi-Scale Photoacoustic Assessment of Wound Healing Using Chitosanâ€“Graphene Oxide Hemostatic Sponge. <i>Nanomaterials</i> , 2021, 11, 2879.	4.1	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.	2.3	35
27	Single-shot photoacoustic microscopy of hemoglobin concentration, oxygen saturation, and blood flow in sub-microseconds. <i>Photoacoustics</i> , 2020, 17, 100156.	7.8	56
28	Organic semiconducting polymer amphiphile for near-infrared-II light-triggered phototheranostics. <i>Biomaterials</i> , 2020, 232, 119684.	11.4	96
29	An invertible wavefront switching system with a high extinction ratio. <i>Optics and Laser Technology</i> , 2020, 131, 106466.	4.6	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.	13.8	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.	10.0	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.	2.0	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.	3.7	19
34	Video-Rate Ring-Array Ultrasound and Photoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4369-4375.	8.9	45
35	Micro-rocket robot with all-optic actuating and tracking in blood. <i>Light: Science and Applications</i> , 2020, 9, 84.	16.6	100
36	Wide-field polygon-scanning photoacoustic microscopy of oxygen saturation at 1-MHz A-line rate. <i>Photoacoustics</i> , 2020, 20, 100195.	7.8	62

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37	Mechanics designs-performance relationships in epidermal triboelectric nanogenerators. Nano Energy, 2020, 76, 105017.	16.0	24
38	Effective Phototheranostics of Brain Tumor Assisted by Near-Infrared-II Light-Responsive Semiconducting Polymer Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 33492-33499.	8.0	100
39	Rational Design of Conjugated Small Molecules for Superior Photothermal Theranostics in the NIR-II Biowindow. Advanced Materials, 2020, 32, e2001146.	21.0	204
40	Optical-resolution photoacoustic microscopy with ultrafast dual-wavelength excitation. Journal of Biophotonics, 2020, 13, e201960229.	2.3	28
41	Snapshot photoacoustic topography through an ergodic relay for high-throughput imaging of optical absorption. Nature Photonics, 2020, 14, 164-170.	31.4	70
42	SNR-enhanced fiber-laser ultrasound sensors for photoacoustic tomography*. , 2020, , .		1
43	Photoacoustic imaging of microenvironmental changes in facial cupping therapy. Biomedical Optics Express, 2020, 11, 2394.	2.9	18
44	Photoacoustic computed tomography by using a multi-angle scanning fiber-laser ultrasound sensor. Optics Express, 2020, 28, 8744.	3.4	14
45	High acoustic numerical aperture photoacoustic microscopy with improved sensitivity. Optics Letters, 2020, 45, 628.	3.3	11
46	Acoustic-spectrum-compensated photoacoustic microscopy. Optics Letters, 2020, 45, 1850.	3.3	7
47	Multiscale high-speed photoacoustic microscopy based on free-space light transmission and a MEMS scanning mirror. Optics Letters, 2020, 45, 4312.	3.3	25
48	Confocal visible/NIR photoacoustic microscopy of tumors with structural, functional, and nanoprobe contrasts. Photonics Research, 2020, 8, 1875.	7.0	25
49	3D printed microstructures for flexible electronic devices. Nanotechnology, 2019, 30, 414001.	2.6	26
50	Characterizing Nanoparticle Swarms With Tuneable Concentrations for Enhanced Imaging Contrast. IEEE Robotics and Automation Letters, 2019, 4, 2942-2949.	5.1	36
51	Dual-Polarized Fiber Laser Sensor for Photoacoustic Microscopy. Sensors, 2019, 19, 4632.	3.8	7
52	Compressed Ultrafast Spectral-Temporal Photography. Physical Review Letters, 2019, 122, 193904.	7.8	54
53	Single-shot linear dichroism optical-resolution photoacoustic microscopy. Photoacoustics, 2019, 16, 100148.	7.8	29
54	Optical-resolution photoacoustic microscopy of oxygen saturation with nonlinear compensation. Biomedical Optics Express, 2019, 10, 3061.	2.9	39

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55	Noise-reduced optical ultrasound sensor via signal duplication for photoacoustic microscopy. <i>Optics Letters</i> , 2019, 44, 2665.	3.3	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.	5.4	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.	14.6	127
58	Switchable Photoacoustic Imaging of Glutathione Using MnO ₂ Nanotubes for Cancer Diagnosis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44231-44239.	8.0	34
59	Fast-scanning photoacoustic microscopy with a side-looking fiber optic ultrasound sensor. <i>Biomedical Optics Express</i> , 2018, 9, 5809.	2.9	22
60	Fiber-Laser-Based Ultrasound Sensor for Photoacoustic Imaging. <i>Scientific Reports</i> , 2017, 7, 40849.	3.3	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, .	22.5	334
62	High-speed photoacoustic microscopy of mouse cortical microhemodynamics. <i>Journal of Biophotonics</i> , 2017, 10, 792-798.	2.3	25
63	Label-free automated three-dimensional imaging of whole organs by microtomy-assisted photoacoustic microscopy. <i>Nature Communications</i> , 2017, 8, 1386.	12.8	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.	2.9	55
66	Sensitivity characteristics of broadband fiber-laser-based ultrasound sensors for photoacoustic microscopy. <i>Optics Express</i> , 2017, 25, 17616.	3.4	20
67	2-µm multi-wavelength pulsed laser for functional photoacoustic microscopy. <i>Optics Letters</i> , 2017, 42, 1452.	3.3	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.	3.3	69
69	Handheld optical-resolution photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2016, 22, 041002.	2.6	54
70	Multiscale photoacoustic tomography using reversibly switchable bacterial phytochrome as a near-infrared photochromic probe. <i>Nature Methods</i> , 2016, 13, 67-73.	19.0	206
71	Photoacoustically guided wavefront shaping for enhanced optical focusing in scattering media. <i>Nature Photonics</i> , 2015, 9, 126-132.	31.4	249
72	High-speed label-free functional photoacoustic microscopy of mouse brain in action. <i>Nature Methods</i> , 2015, 12, 407-410.	19.0	555

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73	Ultrasonic-heating-encoded photoacoustic tomography with virtually augmented detection view. <i>Optica</i> , 2015, 2, 307.	9.3	28
74	Bessel-beam Grueneisen relaxation photoacoustic microscopy with extended depth of field. <i>Journal of Biomedical Optics</i> , 2015, 20, 116002.	2.6	38
75	In vivo optically encoded photoacoustic flowgraphy. <i>Optics Letters</i> , 2014, 39, 3814.	3.3	16
76	Calibration-free structured-illumination photoacoustic flowgraphy of transverse flow in scattering media. <i>Journal of Biomedical Optics</i> , 2014, 19, 046007.	2.6	9
77	Label-free photoacoustic nanoscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 1.	2.6	124
78	Photoimprint Photoacoustic Microscopy for Three-Dimensional Label-Free Subdiffraction Imaging. <i>Physical Review Letters</i> , 2014, 112, 014302.	7.8	111
79	Grueneisen Relaxation Photoacoustic Microscopy. <i>Physical Review Letters</i> , 2014, 113, 174301.	7.8	126
80	Fully motorized optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2014, 39, 2117.	3.3	69
81	Ultrasonically Encoded Photoacoustic Flowgraphy in Biological Tissue. <i>Physical Review Letters</i> , 2013, 111, 204301.	7.8	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.	1.6	7
83	Integrated optical- and acoustic-resolution photoacoustic microscopy based on an optical fiber bundle. <i>Optics Letters</i> , 2013, 38, 52.	3.3	59
84	Calibration-free quantification of absolute oxygen saturation based on the dynamics of photoacoustic signals. <i>Optics Letters</i> , 2013, 38, 2800.	3.3	50
85	Wide-field two-dimensional multifocal optical-resolution photoacoustic-computed microscopy. <i>Optics Letters</i> , 2013, 38, 5236.	3.3	50
86	Ultrasound-heated photoacoustic flowmetry. <i>Journal of Biomedical Optics</i> , 2013, 18, 117003.	2.6	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.	7.1	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.	10.0	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.	2.6	122
90	Video-rate functional photoacoustic microscopy at depths. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	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.	1.6	32
92	Fast voice-coil scanning optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2011, 36, 139.	3.3	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.	0.9	4
95	Automatic Microassembly Using Visual Servo Control. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2008, 31, 316-325.	1.4	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.	7.9	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