

Xueding Wang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110 papers	4,440 citations	29 h-index	65 g-index
124 ext. papers	5,485 ext. citations	5.5 avg, IF	5.49 L-index

#	Paper	IF	Citations
110	Noninvasive laser-induced photoacoustic tomography for structural and functional in vivo imaging of the brain. <i>Nature Biotechnology</i> , 2003 , 21, 803-6	44.5	1238
109	Photoacoustic Tomography of a Nanoshell Contrast Agent in the in Vivo Rat Brain. <i>Nano Letters</i> , 2004 , 4, 1689-1692	11.5	385
108	Noninvasive imaging of hemoglobin concentration and oxygenation in the rat brain using high-resolution photoacoustic tomography. <i>Journal of Biomedical Optics</i> , 2006 , 11, 024015	3.5	307
107	Noninvasive photoacoustic angiography of animal brains in vivo with near-infrared light and an optical contrast agent. <i>Optics Letters</i> , 2004 , 29, 730-2	3	201
106	Propagation of polarized light in birefringent turbid media: a Monte Carlo study. <i>Journal of Biomedical Optics</i> , 2002 , 7, 279-90	3.5	174
105	Three-dimensional laser-induced photoacoustic tomography of mouse brain with the skin and skull intact. <i>Optics Letters</i> , 2003 , 28, 1739-41	3	169
104	Medical breast ultrasound image segmentation by machine learning. <i>Ultrasonics</i> , 2019 , 91, 1-9	3.5	87
103	Photoacoustic tomography of biological tissues with high cross-section resolution: reconstruction and experiment. <i>Medical Physics</i> , 2002 , 29, 2799-805	4.4	84
102	Cellular imaging by targeted assembly of hot-spot SERS and photoacoustic nanoprobe using split-fluorescent protein scaffolds. <i>Nature Communications</i> , 2018 , 9, 607	17.4	78
101	Noninvasive photoacoustic tomography of human peripheral joints toward diagnosis of inflammatory arthritis. <i>Optics Letters</i> , 2007 , 32, 3002-4	3	77
100	In vivo quantitative imaging of tumor pH by nanosonophore assisted multispectral photoacoustic imaging. <i>Nature Communications</i> , 2017 , 8, 471	17.4	73
99	Light Emitting Diodes based Photoacoustic Imaging and Potential Clinical Applications. <i>Scientific Reports</i> , 2018 , 8, 9885	4.9	73
98	Polarized light propagation through scattering media: time-resolved Monte Carlo simulations and experiments. <i>Journal of Biomedical Optics</i> , 2003 , 8, 608-17	3.5	69
97	The functional pitch of an organ: quantification of tissue texture with photoacoustic spectrum analysis. <i>Radiology</i> , 2014 , 271, 248-54	20.5	65
96	A Functional Study of Human Inflammatory Arthritis Using Photoacoustic Imaging. <i>Scientific Reports</i> , 2017 , 7, 15026	4.9	53
95	High-resolution, in vivo multimodal photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy imaging of rabbit retinal neovascularization. <i>Light: Science and Applications</i> , 2018 , 7, 103	16.7	50
94	Targeted Blue Nanoparticles as Photoacoustic Contrast Agent for Brain Tumor Delineation. <i>Nano Research</i> , 2011 , 4, 1163-1173	10	47

93	Photoacoustic tomography of tissue subwavelength microstructure with a narrowband and low frequency system. <i>Applied Physics Letters</i> , 2012 , 101, 034105	3.4	43
92	All-optical photoacoustic microscopy. <i>Photoacoustics</i> , 2015 , 3, 143-150	9	41
91	Automated 3D ultrasound image segmentation to aid breast cancer image interpretation. <i>Ultrasonics</i> , 2016 , 65, 51-8	3.5	40
90	Photoacoustic tomography for human musculoskeletal imaging and inflammatory arthritis detection. <i>Photoacoustics</i> , 2018 , 12, 82-89	9	39
89	Ion-Selective Nanosensor for Photoacoustic and Fluorescence Imaging of Potassium. <i>Analytical Chemistry</i> , 2017 , 89, 7943-7949	7.8	37
88	Imaging of joints with laser-based photoacoustic tomography: an animal study. <i>Medical Physics</i> , 2006 , 33, 2691-7	4.4	37
87	Photoacoustic spectrum analysis for microstructure characterization in biological tissue: analytical model. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1473-80	3.5	36
86	Photoacoustic imaging with a commercial ultrasound system and a custom probe. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 484-92	3.5	36
85	Characterization of bone microstructure using photoacoustic spectrum analysis. <i>Optics Express</i> , 2015 , 23, 25217-24	3.3	33
84	Noninvasive reflection mode photoacoustic imaging through infant skull toward imaging of neonatal brains. <i>Journal of Neuroscience Methods</i> , 2008 , 168, 412-21	3	33
83	A fiber-optic system for dual-modality photoacoustic microscopy and confocal fluorescence microscopy using miniature components. <i>Photoacoustics</i> , 2013 , 1, 30-35	9	32
82	Air-coupled ultrasound detection using capillary-based optical ring resonators. <i>Scientific Reports</i> , 2017 , 7, 109	4.9	29
81	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016 , 6, 16937	4.9	29
80	Quantitative detection of stochastic microstructure in turbid media by photoacoustic spectral matching. <i>Applied Physics Letters</i> , 2013 , 102, 114102	3.4	28
79	Characterizing intestinal inflammation and fibrosis in Crohn's disease by photoacoustic imaging: feasibility study. <i>Biomedical Optics Express</i> , 2016 , 7, 2837-48	3.5	28
78	Experimental evaluation of x-ray acoustic computed tomography for radiotherapy dosimetry applications. <i>Medical Physics</i> , 2017 , 44, 608-617	4.4	27
77	Bone assessment via thermal photo-acoustic measurements. <i>Optics Letters</i> , 2015 , 40, 1721-4	3	25
76	Repositioning Clofazimine as a Macrophage-Targeting Photoacoustic Contrast Agent. <i>Scientific Reports</i> , 2016 , 6, 23528	4.9	24

75	Chain-like gold nanoparticle clusters for multimodal photoacoustic microscopy and optical coherence tomography enhanced molecular imaging. <i>Nature Communications</i> , 2021 , 12, 34	17.4	24
74	High-precision, non-invasive anti-microvascular approach via concurrent ultrasound and laser irradiation. <i>Scientific Reports</i> , 2017 , 7, 40243	4.9	22
73	Contrast Agent Enhanced Multimodal Photoacoustic Microscopy and Optical Coherence Tomography for Imaging of Rabbit Choroidal and Retinal Vessels in vivo. <i>Scientific Reports</i> , 2019 , 9, 59454	4.9	22
72	Towards Clinical Translation of LED-Based Photoacoustic Imaging: A Review. <i>Sensors</i> , 2020 , 20,	3.8	21
71	Novel Photoacoustic Microscopy and Optical Coherence Tomography Dual-modality Chorioretinal Imaging in Living Rabbit Eyes. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	21
70	Identifying intestinal fibrosis and inflammation by spectroscopic photoacoustic imaging: an animal study. <i>Biomedical Optics Express</i> , 2018 , 9, 1590-1600	3.5	19
69	Detecting joint inflammation by an LED-based photoacoustic imaging system: a feasibility study. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-4	3.5	19
68	High-resolution multimodal photoacoustic microscopy and optical coherence tomography image-guided laser induced branch retinal vein occlusion in living rabbits. <i>Scientific Reports</i> , 2019 , 9, 10560	4.9	18
67	Quantifying Gleason scores with photoacoustic spectral analysis: feasibility study with human tissues. <i>Biomedical Optics Express</i> , 2015 , 6, 4781-9	3.5	18
66	Dual-pulse nonlinear photoacoustic technique: a practical investigation. <i>Biomedical Optics Express</i> , 2015 , 6, 2923-33	3.5	17
65	Photothermal tomography for the functional and structural evaluation, and early mineral loss monitoring in bones. <i>Biomedical Optics Express</i> , 2014 , 5, 2488-502	3.5	17
64	Simultaneous photoacoustic microscopy, spectral-domain optical coherence tomography, and fluorescein microscopy multi-modality retinal imaging. <i>Photoacoustics</i> , 2020 , 20, 100194	9	16
63	Characterizing intestinal strictures of Crohn's disease by endoscopic photoacoustic imaging. <i>Biomedical Optics Express</i> , 2019 , 10, 2542-2555	3.5	16
62	Parametric Study of Acoustic Droplet Vaporization Thresholds and Payload Release From Acoustically-Responsive Scaffolds. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2471-2484	3.5	15
61	Toward in vivo dosimetry in external beam radiotherapy using x-ray acoustic computed tomography: A soft-tissue phantom study validation. <i>Medical Physics</i> , 2018 , 45, 4191	4.4	15
60	Multi-wavelength, en-face photoacoustic microscopy and optical coherence tomography imaging for early and selective detection of laser induced retinal vein occlusion. <i>Biomedical Optics Express</i> , 2018 , 9, 5915-5938	3.5	15
59	Multiple Delay and Sum With Enveloping Beamforming Algorithm for Photoacoustic Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1812-1821	11.7	15
58	Non-Contact Photoacoustic Imaging Using a Commercial Heterodyne Interferometer. <i>IEEE Sensors Journal</i> , 2016 , 16, 8381-8388	4	15

57	Photoacoustic imaging features of intraocular tumors: Retinoblastoma and uveal melanoma. <i>PLoS ONE</i> , 2017 , 12, e0170752	3.7	14
56	In Vivo 3D Imaging of Retinal Neovascularization Using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Imaging. <i>Journal of Imaging</i> , 2018 , 4,	3.1	14
55	Interstitial assessment of aggressive prostate cancer by physio-chemical photoacoustics: An ex vivo study with intact human prostates. <i>Medical Physics</i> , 2018 , 45, 4125	4.4	13
54	Photoacoustic eigen-spectrum from light-absorbing microspheres and its application in noncontact elasticity evaluation. <i>Applied Physics Letters</i> , 2017 , 110, 054101	3.4	13
53	Dual-Modality X-Ray-Induced Radiation Acoustic and Ultrasound Imaging for Real-Time Monitoring of Radiotherapy. <i>BME Frontiers</i> , 2020 , 2020, 1-10	4.4	13
52	Characterizing cellular morphology by photoacoustic spectrum analysis with an ultra-broadband optical ultrasonic detector. <i>Optics Express</i> , 2016 , 24, 19853-62	3.3	13
51	Removal of choroidal vasculature using concurrently applied ultrasound bursts and nanosecond laser pulses. <i>Scientific Reports</i> , 2018 , 8, 12848	4.9	13
50	LED-Based Photoacoustic Imaging for Monitoring Angiogenesis in Fibrin Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2019 , 25, 523-531	2.9	12
49	Functional Photoacoustic and Ultrasonic Assessment of Osteoporosis: A Clinical Feasibility Study. <i>BME Frontiers</i> , 2020 , 2020, 1-15	4.4	12
48	Photoacoustic Lifetime Based Oxygen Imaging with Tumor Targeted G2 Polyacrylamide Nanosonophores. <i>ACS Nano</i> , 2019 , 13, 14024-14032	16.7	12
47	Real-time OCT guidance and multimodal imaging monitoring of subretinal injection induced choroidal neovascularization in rabbit eyes. <i>Experimental Eye Research</i> , 2019 , 186, 107714	3.7	10
46	Bubble growth in cylindrically-shaped optical absorbers during photo-mediated ultrasound therapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 125017	3.8	10
45	Interstitial photoacoustic spectral analysis: instrumentation and validation. <i>Biomedical Optics Express</i> , 2017 , 8, 1689-1697	3.5	9
44	Monitoring Neuron Activities and Interactions with Laser Emissions. <i>ACS Photonics</i> , 2020 , 7, 2182-2189	6.3	9
43	Plasmonic Gold Nanostar-Enhanced Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Molecular Imaging To Evaluate Choroidal Neovascularization. <i>ACS Sensors</i> , 2020 , 5, 3070-3081	8.2	9
42	A nanocomposite of Au-AgI core/shell dimer as a dual-modality contrast agent for x-ray computed tomography and photoacoustic imaging. <i>Medical Physics</i> , 2016 , 43, 589	4.4	8
41	Synthesis and Characterization of a Biomimetic Formulation of Clofazimine Hydrochloride Microcrystals for Parenteral Administration. <i>Pharmaceutics</i> , 2018 , 10,	6.4	8
40	Chemical Imaging in Vivo: Photoacoustic-Based 4-Dimensional Chemical Analysis. <i>Analytical Chemistry</i> , 2019 , 91, 2561-2569	7.8	7

- 39 The Effect of Laser and Ultrasound Synchronization in Photo-Mediated Ultrasound Therapy. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 3363-3370 5 6
- 38 Prostate cancer characterization by optical contrast enhanced photoacoustics. *Proceedings of SPIE*, **2016**, 9708, 1.7 6
- 37 Real-time photoacoustic sensing for photo-mediated ultrasound therapy. *Optics Letters*, **2019**, 44, 4063-4066 6
- 36 An ionizing radiation acoustic imaging (iRAI) technique for real-time dosimetric measurements for FLASH radiotherapy. *Medical Physics*, **2020**, 47, 5090-5101 4.4 5
- 35 Transient Triplet Differential (TTD) Method for Background Free Photoacoustic Imaging. *Scientific Reports*, **2018**, 8, 9290 4.9 5
- 34 Optical coherence tomography and fluorescence microscopy dual-modality imaging for in vivo single-cell tracking with nanowire lasers. *Biomedical Optics Express*, **2020**, 11, 3659-3672 3.5 5
- 33 Strain-Photoacoustic Imaging as a Potential Tool for Characterizing Intestinal Fibrosis. *Gastroenterology*, **2019**, 157, 1196-1198 13.3 4
- 32 photoacoustic potassium imaging of the tumor microenvironment. *Biomedical Optics Express*, **2020**, 11, 3507-3522 3.5 4
- 31 Ultralow energy photoacoustic microscopy for ocular imaging in vivo. *Journal of Biomedical Optics*, **2020**, 25, 1-8 3.5 4
- 30 Bone Chemical Composition Assessment with Multi-Wavelength Photoacoustic Analysis. *Applied Sciences (Switzerland)*, **2020**, 10, 8214 2.6 4
- 29 Design, Development, and Multi-Characterization of an Integrated Clinical Transrectal Ultrasound and Photoacoustic Device for Human Prostate Imaging. *Diagnostics*, **2020**, 10, 3.8 4
- 28 Lifetime-resolved Photoacoustic (LPA) Spectroscopy for monitoring Oxygen change and Photodynamic Therapy (PDT). *Proceedings of SPIE*, **2016**, 9708, 1.7 3
- 27 Cavitation induced shear and circumferential stresses on blood vessel walls during photo-mediated ultrasound therapy. *AIP Advances*, **2020**, 10, 125227 1.5 3
- 26 Photo-Mediated Ultrasound Therapy for the Treatment of Corneal Neovascularization in Rabbit Eyes. *Translational Vision Science and Technology*, **2020**, 9, 16 3.3 3
- 25 Gold Nanorod Enhanced Photoacoustic Microscopy and Optical Coherence Tomography of Choroidal Neovascularization. *ACS Applied Materials & Interfaces*, **2021**, 13, 40214-40228 9.5 3
- 24 Improved digital breast tomosynthesis images using automated ultrasound. *Medical Physics*, **2014**, 41, 061911 4.4 2
- 23 Imaging of enthesitis by an LED-based photoacoustic system. *Journal of Biomedical Optics*, **2020**, 25, 3.5 2
- 22 High Resolution Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Visualization of Choroidal Vascular Occlusion. *International Journal of Molecular Sciences*, **2020**, 21, 6.3 2

21	Long-term multimodal imaging characterization of persistent retinal neovascularization using DL-alpha-aminoadipic acid in pigmented and white rabbits. <i>Experimental Eye Research</i> , 2021 , 207, 108577	3.7	2
20	Retinal safety evaluation of photoacoustic microscopy. <i>Experimental Eye Research</i> , 2021 , 202, 108368	3.7	2
19	Functionalized contrast agents for multimodality photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy molecular retinal imaging. <i>Methods in Enzymology</i> , 2021 , 657, 443-480	1.7	2
18	Long-Term, Noninvasive Tracking of Progenitor Cells Using Multimodality Photoacoustic, Optical Coherence Tomography, and Fluorescence Imaging. <i>ACS Nano</i> , 2021 ,	16.7	2
17	The feasibility study of the transmission mode photoacoustic measurement of human calcaneus bone. <i>Photoacoustics</i> , 2021 , 23, 100273	9	2
16	Photoacoustic imaging of clofazimine hydrochloride nanoparticle accumulation in cancerous vs normal prostates. <i>PLoS ONE</i> , 2019 , 14, e0219655	3.7	1
15	Photoacoustic imaging of squirrel monkey cortical and subcortical brain regions during peripheral electrical stimulation.. <i>Photoacoustics</i> , 2022 , 25, 100326	9	1
14	Integrated photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy for multimodal chorioretinal imaging. <i>Proceedings of SPIE</i> , 2018 , 10494,	1.7	1
13	Removing Subcutaneous Microvessels Using Photo-Mediated Ultrasound Therapy. <i>Lasers in Surgery and Medicine</i> , 2020 , 52, 984-992	3.6	1
12	Photoacoustic Imaging: Plasmonic Nanoparticles with Quantitatively Controlled Bioconjugation for Photoacoustic Imaging of Live Cancer Cells (Adv. Sci. 12/2016). <i>Advanced Science</i> , 2016 , 3,	13.6	1
11	Quantitatively assessing port-wine stains using a photoacoustic imaging method: A pilot study. <i>Journal of the American Academy of Dermatology</i> , 2021 , 85, 1613-1616	4.5	1
10	Indocyanine green-enhanced multimodal photoacoustic microscopy and optical coherence tomography molecular imaging of choroidal neovascularization. <i>Journal of Biophotonics</i> , 2021 , 14, e20200458	3.1	1
9	Characterizing the aggressiveness of prostate cancer using an all-optical needle photoacoustic sensing probe: feasibility study. <i>Biomedical Optics Express</i> , 2021 , 12, 4873-4888	3.5	0
8	A simulation study of ionizing radiation acoustic imaging (iRAI) as a real-time dosimetric technique for ultra-high dose rate radiotherapy (UHDR-RT). <i>Medical Physics</i> , 2021 , 48, 6137-6151	4.4	0
7	In Vivo Subretinal ARPE-19 Cell Tracking Using Indocyanine Green Contrast-Enhanced Multimodality Photoacoustic Microscopy, Optical Coherence Tomography, and Fluorescence Imaging for Regenerative Medicine. <i>Translational Vision Science and Technology</i> , 2021 , 10, 10	3.3	0
6	Effect of Photo-Mediated Ultrasound Therapy on Nitric Oxide and Prostacyclin from Endothelial Cells. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2617	2.6	0
5	Photo-mediated ultrasound therapy for the treatment of retinal neovascularization in rabbit eyes.. <i>Lasers in Surgery and Medicine</i> , 2022 ,	3.6	0
4	Multimodal In Vivo Imaging of Retinal and Choroidal Vascular Occlusion. <i>Photonics</i> , 2022 , 9, 201	2.2	0

- 3 Label-free photoacoustic computed tomography of mouse cortical responses to retinal photostimulation using a pair-wise correlation map.. *Biomedical Optics Express*, **2022**, 13, 1017-1025 3.5
- 2 Biomedical Photoacoustic Imaging With Unknown Spatially Distributed Ultrasound Sensor Array. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 2948-2956 5
- 1 Safety Evaluation of Photoacoustic Tomography System for Intraocular Tumors.. *Translational Vision Science and Technology*, **2022**, 11, 30 3.3