

# Fei Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

2,052  
citations

270111

25  
h-index

299063

42  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2110  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance piezoelectric nanogenerators composed of formamidinium lead halide perovskite nanoparticles and poly(vinylidene fluoride). <i>Nano Energy</i> , 2017, 37, 126-135.	8.2	164
2	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 7708-7716.	7.8	163
3	Review of deep learning for photoacoustic imaging. <i>Photoacoustics</i> , 2021, 21, 100215.	4.4	86
4	Review of Low-Cost Photoacoustic Sensing and Imaging Based on Laser Diode and Light-Emitting Diode. <i>Sensors</i> , 2018, 18, 2264.	2.1	85
5	Single laser pulse generates dual photoacoustic signals for differential contrast photoacoustic imaging. <i>Scientific Reports</i> , 2017, 7, 626.	1.6	71
6	Y-Net: Hybrid deep learning image reconstruction for photoacoustic tomography in vivo. <i>Photoacoustics</i> , 2020, 20, 100197.	4.4	64
7	Thermoacoustic resonance effect and circuit modelling of biological tissue. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	62
8	Advanced photoacoustic and thermoacoustic sensing and imaging beyond pulsed absorption contrast. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 074006.	1.0	60
9	Noninvasive Electromagnetic Wave Sensing of Glucose. <i>Sensors</i> , 2019, 19, 1151.	2.1	59
10	Coherent Photoacoustic-Ultrasound Correlation and Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2507-2512.	2.5	56
11	Photoacoustic Image Classification and Segmentation of Breast Cancer: A Feasibility Study. <i>IEEE Access</i> , 2019, 7, 5457-5466.	2.6	56
12	Macro fiber composite-based energy harvester for human knee. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	51
13	Photoacoustic resonance spectroscopy for biological tissue characterization. <i>Journal of Biomedical Optics</i> , 2014, 19, 067006.	1.4	45
14	Single-Wavelength Blood Oxygen Saturation Sensing With Combined Optical Absorption and Scattering. <i>IEEE Sensors Journal</i> , 2016, 16, 1943-1948.	2.4	41
15	Rationally encapsulated gold nanorods improving both linear and nonlinear photoacoustic imaging contrast in vivo. <i>Nanoscale</i> , 2017, 9, 79-86.	2.8	41
16	Photoacoustic elastic oscillation and characterization. <i>Optics Express</i> , 2015, 23, 20617.	1.7	40
17	Photoacoustic phasoscopy super-contrast imaging. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	38
18	Modulatable magnetically mediated thermoacoustic imaging with magnetic nanoparticles. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	36

#	ARTICLE	IF	CITATIONS
19	An analytical study of photoacoustic and thermoacoustic generation efficiency towards contrast agent and film design optimization. <i>Photoacoustics</i> , 2017, 7, 1-11.	4.4	35
20	Handheld Photoacoustic Imager for Theranostics in 3D. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2037-2046.	5.4	32
21	Remarkable In Vivo Nonlinear Photoacoustic Imaging Based on Near-Infrared Organic Dyes. <i>Small</i> , 2016, 12, 5239-5244.	5.2	31
22	Thermally modulated photoacoustic imaging with super-paramagnetic iron oxide nanoparticles. <i>Optics Letters</i> , 2014, 39, 3414.	1.7	28
23	Coexisting and mixing phenomena of thermoacoustic and magnetoacoustic waves in water. <i>Scientific Reports</i> , 2015, 5, 11489.	1.6	27
24	Noninvasive photoacoustic measurement of glucose by data fusion. <i>Analyst</i> , The, 2017, 142, 2892-2896.	1.7	26
25	Hybrid multi-wavelength nonlinear photoacoustic sensing and imaging. <i>Optics Letters</i> , 2018, 43, 5611.	1.7	26
26	Electrical circuit modeling and analysis of microwave acoustic interaction with biological tissues. <i>Medical Physics</i> , 2014, 41, 053302.	1.6	25
27	Self temperature regulation of photothermal therapy by laser-shared photoacoustic feedback. <i>Optics Letters</i> , 2015, 40, 4492.	1.7	25
28	Early Sales of Seasonal Products with Weather-Conditional Rebates. <i>Production and Operations Management</i> , 2012, 21, 778-794.	2.1	23
29	Fast photoacoustic-guided depth-resolved Raman spectroscopy: a feasibility study. <i>Optics Letters</i> , 2015, 40, 3568.	1.7	23
30	Micro-Doppler Photoacoustic Effect and Sensing by Ultrasound Radar. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 152-157.	1.9	21
31	Guide Star-Assisted Noninvasive Photoacoustic Measurement of Glucose. <i>ACS Sensors</i> , 2018, 3, 2550-2557.	4.0	21
32	Ki-GAN: Knowledge Infusion Generative Adversarial Network for Photoacoustic Image Reconstruction In Vivo. <i>Lecture Notes in Computer Science</i> , 2019, , 273-281.	1.0	21
33	GPU-accelerated two dimensional synthetic aperture focusing for photoacoustic microscopy. <i>APL Photonics</i> , 2018, 3, .	3.0	20
34	Photoacoustic Classification of Tumor Model Morphology Based on Support Vector Machine: A Simulation and Phantom Study. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-9.	1.9	19
35	Implementation and Testing of Ankle-Foot Prosthesis With a New Compensated Controller. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 1775-1784.	3.7	18
36	Reconstruct the Photoacoustic Image Based On Deep Learning with Multi-frequency Ring-shape Transducer Array. , 2019, 2019, 7115-7118.		18

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37	Photoacoustic induced surface acoustic wave sensor for concurrent opto-mechanical microfluidic sensing of dyes and plasmonic nanoparticles. RSC Advances, 2016, 6, 50238-50244.	1.7	17
38	Quantitative Photoacoustic Blood Oxygenation Imaging Using Deep Residual And Recurrent Neural Network. , 2019, , .		17
39	Toward Wearable Healthcare: A Miniaturized 3D Imager With Coherent Frequency-Domain Photoacoustics. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1417-1424.	2.7	17
40	A Noise Reduction Method for Photoacoustic Imaging &lt;italic>In Vivo&lt;/italic> Based on EMD and Conditional Mutual Information. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	17
41	Enabling both time-domain and frequency-domain photoacoustic imaging by a fingertip laser diode system. Optics Letters, 2019, 44, 1988.	1.7	16
42	Photoacoustic and Ultrasound Dual-Modality Endoscopic Imaging Based on ALN Pmut Array. , 2022, , .		16
43	Photoacoustic Resonance Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	15
44	Deep learning enabled real-time photoacoustic tomography system via single data acquisition channel. Photoacoustics, 2021, 22, 100270.	4.4	15
45	Accelerated Photoacoustic Tomography Reconstruction via Recurrent Inference Machines. , 2019, 2019, 6371-6374.		13
46	Low-Cost Photoacoustic Tomography System Based on Multi-Channel Delay-Line Module. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 778-782.	2.2	13
47	Phase-domain photoacoustic sensing. Applied Physics Letters, 2017, 110, .	1.5	12
48	Adaptive Photoacoustic Sensing Using Matched Filter. , 2017, 1, 1-3.		12
49	Design of powered ankle-foot prosthesis driven by parallel elastic actuator. , 2015, , .		11
50	Dual-Contrast Nonlinear Photoacoustic Sensing and Imaging Based on Single High-Repetition- Rate Pulsed Laser. IEEE Sensors Journal, 2019, 19, 5559-5565.	2.4	11
51	Time-domain photoacoustic waveform analysis for glucose measurement. Analyst, The, 2020, 145, 7964-7972.	1.7	11
52	Synergy-based knee angle estimation using kinematics of thigh. Gait and Posture, 2021, 89, 25-30.	0.6	11
53	Compressed sensing for photoacoustic computed tomography based on an untrained neural network with a shape prior. Biomedical Optics Express, 2021, 12, 7835.	1.5	11
54	AS-Net: Fast Photoacoustic Reconstruction With Multi-Feature Fusion From Sparse Data. IEEE Transactions on Computational Imaging, 2022, 8, 215-223.	2.6	11

#	ARTICLE	IF	CITATIONS
55	A new powered ankle-foot prosthesis with compact parallel spring mechanism. , 2016, , .		9
56	Wavelet de-noising method with adaptive threshold selection for photoacoustic tomography. , 2018, 2018, 4796-4799.		9
57	De-noising of photoacoustic sensing and imaging based on combined empirical mode decomposition and independent component analysis. Journal of Biophotonics, 2019, 12, e201900042.	1.1	9
58	Human Breast Numerical Model Generation Based on Deep Learning for Photoacoustic Imaging. , 2020, 2020, 1919-1922.		9
59	Multiple stimulated emission fluorescence photoacoustic sensing and spectroscopy. Applied Physics Letters, 2016, 109, .	1.5	8
60	Optical Spectroscopic Ultrasound Displacement Imaging: A Feasibility Study. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	1.9	8
61	Low-Cost Multi-Wavelength Photoacoustic Imaging Based on Portable Continuous-Wave Laser Diode Module. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 738-745.	2.7	8
62	A Correlated Microwave-Acoustic Imaging method for early-stage cancer detection. , 2012, 2012, 480-3.		7
63	Hybrid Neural Network for Photoacoustic Imaging Reconstruction. , 2019, 2019, 6367-6370.		7
64	Programmable Acoustic Delay-Line Enabled Low-Cost Photoacoustic Tomography System. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2075-2084.	1.7	7
65	Limited-View Photoacoustic Imaging Reconstruction With Dual Domain Inputs Based On Mutual Inforamtion. , 2021, , .		6
66	Size-adjustable ring-shape photoacoustic tomography imager in vivo. Journal of Biophotonics, 2022, 15, e202200070.	1.1	6
67	Magnetically mediated thermoacoustic imaging. Proceedings of SPIE, 2014, , .	0.8	5
68	A Prototype for a Palm-sized Photoacoustic Sensing Unit. X-Acoustics Imaging and Sensing, 2015, 1, .	0.1	5
69	3D Photoacoustic Simulation of Human Skin Vascular for Quantitative Image Analysis. , 2021, , .		5
70	Deep learning adapted acceleration for limited-view photoacoustic image reconstruction. Optics Letters, 2022, 47, 1911.	1.7	5
71	Fingertip Laser Diode System Enables Both Time-Domain and Frequency-Domain Photoacoustic Imaging. , 2019, , .		3
72	Deep Learning Approach to Reconstruct the Photoacoustic Image Using Multi-Frequency Data. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
73	Image Infusion of Photoacoustic Imaging Based on Novel Adjustable Hand-held Probe. , 2019, , .		3
74	Low-Cost Photoacoustic Tomography System Based on Water-Made Acoustic Delay-Line. , 2019, , .		3
75	A Light-Adjustable Hand-Held Probe for Photoacoustic Tomography <i>in vivo</i>. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	1.9	3
76	Detection of weak optical absorption by optical-resolution photoacoustic microscopy. Photoacoustics, 2022, 25, 100335.	4.4	3
77	Snapshot time-reversed ultrasonically encoded optical focusing guided by time-reversed photoacoustic wave. Photoacoustics, 2022, 26, 100352.	4.4	3
78	Microwave-acoustic correlated imaging and circuit modelling of biological tissues. , 2013, , .		2
79	Analysis of stimulated Raman photoacoustics in frequency domain: A feasibility study. Journal of Applied Physics, 2016, 120, 083105.	1.1	2
80	Design of Continuously-Adjustable Light-Scanning Handheld Probe for Photoacoustic Imaging. IEEE Photonics Journal, 2021, 13, 1-6.	1.0	2
81	Low-Cost Photoacoustic Tomography System Enabled by Frequency-Division Multiplexing. , 2021, , .		2
82	Photoacoustic Characterization of Cortical and Cancellous Bone in The Vertebrae. , 2021, 2021, 294-297.		2
83	Photoacoustic phasoscopy for tissue characterization. , 2012, , .		1
84	Nonlinear electromagnetic-acoustic sensing and imaging. , 2016, , .		1
85	Low-power magnetoacoustic sensing with 30W power amplifier. , 2019, , .		1
86	Adjustable Handheld Probe Design for Photoacoustic Imaging:Experimental Validation. , 2019, 2019, 7119-7122.		1
87	Deep Learning Regularized Acceleration for Photoacoustic Image Reconstruction. , 2021, , .		1
88	Electromagnetic acoustics sensing and imaging for biomedical applications. , 2014, , .		0
89	Electromagnetic acoustics towards revolutionary imaging and therapy. , 2016, , .		0
90	Response to "Comment on "Multiple stimulated emission fluorescence photoacoustic sensing and spectroscopy" [Appl. Phys. Lett. 111, 056101 (2017)]. Applied Physics Letters, 2017, 111, 056102.	1.5	0

#	ARTICLE	IF	CITATIONS
91	Signal and image de-noising algorithm investigation for photoacoustic tomography system. , 2018, , .		0
92	Magnetically Mediated Thermoacoustics: Imaging and Sensing. , 2019, , .		0
93	Design of scanning robot for atherosclerosis detection via photoacoustic imaging. , 2021, , .		0
94	Dual-contrast nonlinear photoacoustic sensing based on quasi-CW single-pulsed laser. , 2018, , .		0
95	Photoacoustic imaging with custom-designed fingertip laser diode. , 2018, , .		0
96	Photoacoustic classification of tumor malignancy based on support vector machine. , 2018, , .		0
97	Combining EMD with ICA for photoacoustic imaging denoising. , 2018, , .		0
98	Learned Parameters and Increment for Iterative Photoacoustic Image Reconstruction via Deep Learning. , 2021, 2021, 2989-2992.		0