

Qian Cheng

List of Publications by Citations

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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.

69
papers

800
citations

15
h-index

25
g-index

90
ext. papers

1,104
ext. citations

4.9
avg. IF

4.39
L-index

#	Paper	IF	Citations
69	Medical breast ultrasound image segmentation by machine learning. <i>Ultrasonics</i> , 2019 , 91, 1-9	3.5	87
68	Acoustic perfect absorbers via spiral metasurfaces with embedded apertures. <i>Applied Physics Letters</i> , 2018 , 113, 233501	3.4	82
67	Acoustic perfect absorbers via Helmholtz resonators with embedded apertures. <i>Journal of the Acoustical Society of America</i> , 2019 , 145, 254	2.2	80
66	Phononic-Crystal-Based Acoustic Sieve for Tunable Manipulations of Particles by a Highly Localized Radiation Force. <i>Physical Review Applied</i> , 2014 , 1,	4.3	51
65	A Light-Triggered Mesenchymal Stem Cell Delivery System for Photoacoustic Imaging and Chemo-Photothermal Therapy of Triple Negative Breast Cancer. <i>Advanced Science</i> , 2018 , 5, 1800382	13.6	48
64	Characterization of bone microstructure using photoacoustic spectrum analysis. <i>Optics Express</i> , 2015 , 23, 25217-24	3.3	33
63	Plasmonic Nanoparticles with Quantitatively Controlled Bioconjugation for Photoacoustic Imaging of Live Cancer Cells. <i>Advanced Science</i> , 2016 , 3, 1600237	13.6	26
62	Towards Clinical Translation of LED-Based Photoacoustic Imaging: A Review. <i>Sensors</i> , 2020 , 20,	3.8	21
61	Intelligent Photosensitive Mesenchymal Stem Cells and Cell-Derived Microvesicles for Photothermal Therapy of Prostate Cancer. <i>Nanotheranostics</i> , 2019 , 3, 41-53	5.6	21
60	Dual-pulse nonlinear photoacoustic technique: a practical investigation. <i>Biomedical Optics Express</i> , 2015 , 6, 2923-33	3.5	17
59	Quantitative calibration of sound pressure in ultrasonic standing waves using the Schlieren method. <i>Optics Express</i> , 2017 , 25, 20401-20409	3.3	16
58	Differential Diagnosis and Precision Therapy of Two Typical Malignant Cutaneous Tumors Leveraging Their Tumor Microenvironment: A Photomedicine Strategy. <i>ACS Nano</i> , 2019 , 13, 11168-11180	16.7	15
57	Phase image contrast mechanism in intermittent contact atomic force microscopy. <i>Journal of Applied Physics</i> , 2010 , 108, 094311	2.5	15
56	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
55	Theoretical and experimental verification of acoustic focusing in metal cylinder structure. <i>Applied Physics Express</i> , 2016 , 9, 057301	2.4	15
54	Non-Contact Photoacoustic Imaging Using a Commercial Heterodyne Interferometer. <i>IEEE Sensors Journal</i> , 2016 , 16, 8381-8388	4	15
53	Immunomodulatory Layered Double Hydroxide Nanoparticles Enable Neurogenesis by Targeting Transforming Growth Factor- β Receptor 2. <i>ACS Nano</i> , 2021 , 15, 2812-2830	16.7	15

52	A flat acoustic lens to generate a Bessel-like beam. <i>Ultrasonics</i> , 2017 , 80, 66-71	3.5	14
51	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
50	Three-dimensional reconstruction of nonplanar ultrasound fields using Radon transform and the schlieren imaging method. <i>Journal of the Acoustical Society of America</i> , 2017 , 142, EL82	2.2	13
49	Removal of choroidal vasculature using concurrently applied ultrasound bursts and nanosecond laser pulses. <i>Scientific Reports</i> , 2018 , 8, 12848	4.9	13
48	Electroactive PVDF thin films fabricated via cooperative stretching process. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46324	2.9	10
47	A Low-Cost FDM System for Multi-Longitudinal Mode Fiber Laser Sensor Array. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 2186-2189	2.2	9
46	Low-frequency low energy ultrasound combined with microbubbles induces distinct apoptosis of A7r5 cells. <i>Molecular Medicine Reports</i> , 2014 , 10, 3282-8	2.9	9
45	Interstitial photoacoustic spectral analysis: instrumentation and validation. <i>Biomedical Optics Express</i> , 2017 , 8, 1689-1697	3.5	9
44	Non-isothermal crystallization kinetics of ramie fiber-reinforced polylactic acid biocomposite. <i>RSC Advances</i> , 2017 , 7, 46014-46021	3.7	8
43	Removable polytetrafluoroethylene template based epitaxy of ferroelectric copolymer thin films. <i>Applied Surface Science</i> , 2018 , 437, 209-216	6.7	7
42	Quantitative measurement of acoustic pressure in the focal zone of acoustic lens-line focusing using the Schlieren method. <i>Applied Optics</i> , 2016 , 55, 2478-83	0.2	7
41	Biomedical Photoacoustic Imaging Optimization with Deconvolution and EMD Reconstruction. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2113	2.6	7
40	Photostability enhancement of silica-coated gold nanostars for photoacoustic imaging guided photothermal therapy. <i>Photoacoustics</i> , 2021 , 23, 100284	9	7
39	Enhancing convolutional neural network scheme for rheumatoid arthritis grading with limited clinical data. <i>Chinese Physics B</i> , 2019 , 28, 038701	1.2	6
38	One-way propagation of acoustic waves through a periodic structure. <i>Applied Physics Express</i> , 2018 , 11, 027301	2.4	6
37	Imaging and analyzing the elasticity of vascular smooth muscle cells by atomic force acoustic microscope. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1383-90	3.5	6
36	Deep Learning Enables Accurate Sound Redistribution via Nonlocal Metasurfaces. <i>Physical Review Applied</i> , 2021 , 16,	4.3	6
35	Manipulating Backward Propagation of Acoustic Waves by a Periodical Structure. <i>Chinese Physics Letters</i> , 2016 , 33, 114302	1.8	6

34	Schlieren Visualization of Acoustic Propagation Characteristics in a One-Dimensional Phononic Crystal. <i>Chinese Physics Letters</i> , 2013 , 30, 084302	1.8	5
33	Ultrasound-Guided Detection and Segmentation of Photoacoustic Signals from Bone Tissue In Vivo. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 19	2.6	5
32	An approach to achieve significantly faster luminescence decay of thin-film scintillator by surface plasmons. <i>Applied Physics Letters</i> , 2014 , 104, 061902	3.4	4
31	Bone Chemical Composition Assessment with Multi-Wavelength Photoacoustic Analysis. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8214	2.6	4
30	Wavelet transform-based photoacoustic time-frequency spectral analysis for bone assessment. <i>Photoacoustics</i> , 2021 , 22, 100259	9	4
29	Adipocyte Size Evaluation Based on Photoacoustic Spectral Analysis Combined with Deep Learning Method. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2178	2.6	4
28	Prostate cancer identification via photoacoustic spectroscopy and machine learning. <i>Photoacoustics</i> , 2021 , 23, 100280	9	4
27	Adaptive optimization on ultrasonic transmission tomography-based temperature image for biomedical treatment. <i>Chinese Physics B</i> , 2017 , 26, 064301	1.2	3
26	Examining the technical feasibility of prostate cancer molecular imaging by transrectal photoacoustic tomography with transurethral illumination. <i>Experimental Biology and Medicine</i> , 2020 , 245, 313-320	3.7	3
25	Photoacoustic power azimuth spectrum for microvascular evaluation. <i>Photoacoustics</i> , 2021 , 22, 100260	9	3
24	Grading of rheumatoid arthritis on ultrasound images with deep convolutional neural network 2018 ,		3
23	Detection of collagen by multi-wavelength photoacoustic analysis as a biomarker for bone health assessment. <i>Photoacoustics</i> , 2021 , 24, 100296	9	3
22	Targeting the Negative Feedback of Adenosine-A2AR Metabolic Pathway by a Tailored Nanoinhibitor for Photothermal Immunotherapy.. <i>Advanced Science</i> , 2022 , e2104182	13.6	3
21	Dissipative particle dynamics simulation of phase separation in semiconducting/ferroelectric blend resistive films. <i>Polymer</i> , 2017 , 116, 233-239	3.9	2
20	Feasibility study for bone health assessment based on photoacoustic imaging method. <i>Chinese Optics Letters</i> , 2020 , 18, 121704	2.2	2
19	Bone mineral density value evaluation based on photoacoustic spectral analysis combined with deep learning method. <i>Chinese Optics Letters</i> , 2020 , 18, 041701	2.2	2
18	Automatic speed of sound correction with photoacoustic image reconstruction 2016 ,		1
17	Ultraviolet irradiation induced polarization restoration in electrically fatigued ferroelectric polymer films. <i>Journal of Applied Physics</i> , 2013 , 113, 114102	2.5	1

16	The Detection of Different Physical Properties of Laser-Damaged HfO ₂ Film on SiO ₂ Substrate by Scanning Probe Acoustic Microscope. <i>Advanced Materials Research</i> , 2011 , 194-196, 2448-2451	0.5	1
15	Multimodal Imaging-Guided Spatiotemporal Tracking of Photosensitive Stem Cells for Breast Cancer Treatment.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	1
14	Characterization of multi-biomarkers for bone health assessment based on photoacoustic physicochemical analysis method.. <i>Photoacoustics</i> , 2022 , 25, 100320	9	1
13	Photoacoustic Spectrum Analysis for Quick Identification and Grading of Prostate Cancer 2020 ,		1
12	Holographic tomography of dynamic three-dimensional acoustic vortex beam in liquid. <i>Applied Physics Letters</i> , 2021 , 119, 143501	3.4	1
11	Bone Chemical Composition Analysis Using Photoacoustic Technique. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	1
10	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
9	Broadband ultrasound-trapping barrier based on hollow cylinder with a periodic grating. <i>Ultrasonics</i> , 2019 , 93, 102-106	3.5	1
8	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
7	Depth sensitivity of subsurface imaging using atomic force acoustic microscopy: FEA Study. <i>Journal of Physics Communications</i> , 2018 , 2, 115021	1.2	1
6	Quick identification of prostate cancer by wavelet transform-based photoacoustic power spectrum analysis.. <i>Photoacoustics</i> , 2022 , 25, 100327	9	0
5	Construction of self-assembled nanogel as multienzyme mimics for bioresponsive tandem-catalysis imaging. <i>Science China Materials</i> , 1	7.1	0
4	Myocardial infarct border demarcation by dual-wavelength photoacoustic spectral analysis.. <i>Photoacoustics</i> , 2022 , 26, 100344	9	0
3	Measurement of the Elasticity of Biological Soft Tissue of Finite Thickness. <i>Chinese Physics Letters</i> , 2016 , 33, 124601	1.8	
2	Future Development 2022 , 219-223		
1	Photoacoustic characterization of bone physico-chemical information. <i>Biomedical Optics Express</i> , 2022 , 13, 2668	3.5	