

Michael C Kolios

List of Publications by Year in descending order

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Version: 2024-02-01

360
papers

6,939
citations

57631

44
h-index

91712

69
g-index

382
all docs

382
docs citations

382
times ranked

4730
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of photoacoustic imaging for monitoring vascular disrupting cancer treatments. Journal of Biophotonics, 2023, 16, e202000209.	1.1	12
2	Pharmacokinetic Modeling of the Second-Wave Phenomenon in Nanobubble-Based Contrast-Enhanced Ultrasound. IEEE Transactions on Biomedical Engineering, 2023, 70, 42-54.	2.5	1
3	Effects of shell-integrated Sudan Black dye on the acoustic activity and ultrasound imaging properties of lipid-shelled nanoscale ultrasound contrast agents. Journal of Biomedical Optics, 2022, 27, .	1.4	0
4	The role of primary and secondary delays in the effective resonance frequency of acoustically interacting microbubbles. Ultrasonics Sonochemistry, 2022, 86, 106033.	3.8	7
5	<i>A priori</i> prediction of response in multicentre locally advanced breast cancer (LABC) patients using quantitative ultrasound and derivative texture methods. Oncotarget, 2021, 12, 81-94.	0.8	8
6	Dosage-controlled intracellular delivery mediated by acoustofluidics for lab on a chip applications. Lab on A Chip, 2021, 21, 1788-1797.	3.1	17
7	Nonlinear dynamics of acoustic bubbles excited by their pressure-dependent subharmonic resonance frequency: influence of the pressure amplitude, frequency, encapsulation and multiple bubble interactions on oversaturation and enhancement of the subharmonic signal. Nonlinear Dynamics, 2021, 103, 429-466.	2.7	42
8	Opto-Acoustic Image Reconstruction and Motion Tracking Using Convex Optimization. IEEE Transactions on Computational Imaging, 2021, 7, 1161-1175.	2.6	3
9	Classification of the major nonlinear regimes of oscillations, oscillation properties, and mechanisms of wave energy dissipation in the nonlinear oscillations of coated and uncoated bubbles. Physics of Fluids, 2021, 33, .	1.6	31
10	In vivo photoacoustic assessment of the oxygen saturation changes in the human radial artery: a preliminary study associated with age. Journal of Biomedical Optics, 2021, 26, .	1.4	6
11	Anti-HER2 PLGA-PEG polymer nanoparticle containing gold nanorods and paclitaxel for laser-activated breast cancer detection and therapy. Biomedical Optics Express, 2021, 12, 2171.	1.5	9
12	Toward Precisely Controllable Acoustic Response of Shell-Stabilized Nanobubbles: High Yield and Narrow Dispersity. ACS Nano, 2021, 15, 4901-4915.	7.3	43
13	Nonlinear dynamics and bifurcation structure of ultrasonically excited lipid coated microbubbles. Ultrasonics Sonochemistry, 2021, 72, 105405.	3.8	28
14	A tutorial in photoacoustic microscopy and tomography signal processing methods. Journal of Applied Physics, 2021, 129, .	1.1	17
15	On the threshold of 1/2 order subharmonic emissions in the oscillations of ultrasonically excited bubbles. Ultrasonics, 2021, 112, 106363.	2.1	13
16	Microfluidic Generation of Monodisperse Nanobubbles by Selective Gas Dissolution. Small, 2021, 17, e2100345.	5.2	20
17	Fast 3-D Opto-Acoustic Simulation for Linear Array With Rectangular Elements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1885-1906.	1.7	2
18	3-D Large-Pitch Synthetic Transmit Aperture Imaging With a Reduced Number of Measurement Channels: A Feasibility Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1628-1640.	1.7	0

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19	Multifunctional nanoparticles as theranostic agents for therapy and imaging of breast cancer. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 218, 112110.	1.7	20
20	An image-based flow cytometric approach to the assessment of the nucleus-to-cytoplasm ratio. <i>PLoS ONE</i> , 2021, 16, e0253439.	1.1	4
21	Experimental and numerical evidence of intensified non-linearity at the microscale: The lipid coated acoustic bubble. <i>Physics of Fluids</i> , 2021, 33, .	1.6	19
22	In vivo spectroscopic photoacoustic imaging and laser-induced nanoparticle vaporization for anti-HER2 breast cancer. <i>Journal of Biophotonics</i> , 2021, 14, e202100099.	1.1	5
23	MRI texture features from tumor core and margin in the prediction of response to neoadjuvant chemotherapy in patients with locally advanced breast cancer. <i>Oncotarget</i> , 2021, 12, 1354-1365.	0.8	10
24	Noninvasive calibrated tissue temperature estimation using backscattered energy of acoustic harmonics. <i>Ultrasonics</i> , 2021, 114, 106406.	2.1	10
25	Real-Time Control of Nanoparticle-Mediated Thermal Therapy Using Photoacoustic Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2188-2194.	2.5	7
26	Bursting microbubbles: How nanobubble contrast agents can enable the future of medical ultrasound molecular imaging and image-guided therapy. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 54, 101463.	3.4	45
27	Laser activatable perfluorocarbon bubbles for imaging and therapy through enhanced absorption from coupled silica coated gold nanoparticles. <i>RSC Advances</i> , 2021, 11, 4906-4920.	1.7	12
28	An ultrafast enzyme-free acoustic technique for detaching adhered cells in microchannels. <i>RSC Advances</i> , 2021, 11, 32824-32829.	1.7	1
29	Biomedical nanobubbles and opportunities for microfluidics. <i>RSC Advances</i> , 2021, 11, 32750-32774.	1.7	18
30	Real-time non-invasive control of tissue temperature using high-frequency ultrasonic backscattered energy. , 2021, , .		2
31	Radiomics in predicting recurrence for patients with locally advanced breast cancer using quantitative ultrasound. <i>Oncotarget</i> , 2021, 12, 2437-2448.	0.8	8
32	Mean Scatterer Spacing Estimation Using Cepstrum-Based Continuous Wavelet Transform. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1118-1126.	1.7	5
33	Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells. <i>Small</i> , 2020, 16, 1903788.	5.2	12
34	The dance of the nanobubbles: detecting acoustic backscatter from sub-micron bubbles using ultra-high frequency acoustic microscopy. <i>Nanoscale</i> , 2020, 12, 21420-21428.	2.8	8
35	Emerging use of machine learning and advanced technologies to assess red cell quality. <i>Transfusion and Apheresis Science</i> , 2020, 59, 103020.	0.5	5
36	Quantitative ultrasound radiomics for therapy response monitoring in patients with locally advanced breast cancer: Multi-institutional study results. <i>PLoS ONE</i> , 2020, 15, e0236182.	1.1	41

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37	Photoacoustic imaging biomarkers for monitoring biophysical changes during nanobubble-mediated radiation treatment. <i>Photoacoustics</i> , 2020, 20, 100201.	4.4	16
38	Objective assessment of stored blood quality by deep learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21381-21390.	3.3	57
39	In situ forming implants exposed to ultrasound enhance therapeutic efficacy in subcutaneous murine tumors. <i>Journal of Controlled Release</i> , 2020, 324, 146-155.	4.8	9
40	Nonlinear power loss in the oscillations of coated and uncoated bubbles: Role of thermal, radiation and encapsulating shell damping at various excitation pressures. <i>Ultrasonics Sonochemistry</i> , 2020, 66, 105070.	3.8	29
41	Fluence-matching technique using photoacoustic radiofrequency spectra for improving estimates of oxygen saturation. <i>Photoacoustics</i> , 2020, 19, 100182.	4.4	11
42	Acoustic Microflows: Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells (Small 9/2020). <i>Small</i> , 2020, 16, 2070045.	5.2	0
43	Theoretical and Experimental Gas Volume Quantification of Micro- and Nanobubble Ultrasound Contrast Agents. <i>Pharmaceutics</i> , 2020, 12, 208.	2.0	27
44	Quantitative ultrasound radiomics in predicting response to neoadjuvant chemotherapy in patients with locally advanced breast cancer: Results from multi-institutional study. <i>Cancer Medicine</i> , 2020, 9, 5798-5806.	1.3	50
45	Critical corrections to models of nonlinear power dissipation of ultrasonically excited bubbles. <i>Ultrasonics Sonochemistry</i> , 2020, 66, 105089.	3.8	22
46	Large-Pitch Synthetic Transmit Aperture Imaging: A Feasibility Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1317-1331.	1.7	4
47	Pickering Bubbles as Dual-Modality Ultrasound and Photoacoustic Contrast Agents. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22308-22317.	4.0	19
48	Expansion-mediated breakup of bubbles and droplets in microfluidics. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
49	Photoacoustic imaging of kidney fibrosis for assessing pretransplant organ quality. <i>JCI Insight</i> , 2020, 5, .	2.3	24
50	Dye diffusion proximal to in situ forming implants is increased by ultrasound stimulation. , 2020, , .		0
51	Comparison of methods for texture analysis of QUS parametric images in the characterization of breast lesions. <i>PLoS ONE</i> , 2020, 15, e0244965.	1.1	18
52	Feasibility of photoacoustic imaging for the non-invasive quality management of stored blood bags. <i>Vox Sanguinis</i> , 2019, 114, 701-710.	0.7	4
53	Contrast enhanced ultrasound imaging by nature-inspired ultrastable echogenic nanobubbles. <i>Nanoscale</i> , 2019, 11, 15647-15658.	2.8	86
54	Label-Free Analysis of Red Blood Cell Storage Lesions Using Imaging Flow Cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 976-984.	1.1	16

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55	Collective nonlinear behavior of interacting polydisperse microbubble clusters. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104708.	3.8	40
56	Quantitative Ultrasound Imaging for the Differentiation between Fresh and Decellularized Mouse Kidneys*. , 2019, 2019, 6624-6627.		2
57	Feasibility of detecting change in backscattered energy of acoustic harmonics in locally heated tissues. <i>International Journal of Hyperthermia</i> , 2019, 36, 963-973.	1.1	8
58	Sink or float? Characterization of shell-stabilized bulk nanobubbles using a resonant mass measurement technique. <i>Nanoscale</i> , 2019, 11, 851-855.	2.8	62
59	PMMA-Fe ₃ O ₄ for internal mechanical support and magnetic thermal ablation of bone tumors. <i>Theranostics</i> , 2019, 9, 4192-4207.	4.6	62
60	Near-infrared absorbing nanoemulsions as nonlinear ultrasound contrast agents for cancer theranostics. <i>Journal of Molecular Liquids</i> , 2019, 287, 110848.	2.3	25
61	Optical and photoacoustic radiofrequency spectroscopic analysis for detecting red blood cell death. <i>Journal of Biophotonics</i> , 2019, 12, e201800431.	1.1	8
62	An artificially engineered "tumor bio-magnet" for collecting blood-circulating nanoparticles and magnetic hyperthermia. <i>Biomaterials Science</i> , 2019, 7, 1815-1824.	2.6	10
63	Photoacoustic F-Mode imaging for scale specific contrast in biological systems. <i>Communications Physics</i> , 2019, 2, .	2.0	18
64	Sizing biological cells using a microfluidic acoustic flow cytometer. <i>Scientific Reports</i> , 2019, 9, 4775.	1.6	18
65	Insights into photoacoustic speckle and applications in tumor characterization. <i>Photoacoustics</i> , 2019, 14, 37-48.	4.4	25
66	Simultaneous acoustic and photoacoustic microfluidic flow cytometry for label-free analysis. <i>Scientific Reports</i> , 2019, 9, 1585.	1.6	30
67	A simple method to analyze the super-harmonic and ultra-harmonic behavior of the acoustically excited bubble oscillator. <i>Ultrasonics Sonochemistry</i> , 2019, 54, 99-109.	3.8	31
68	Zonyl FSP fluorosurfactant stabilized perfluorohexane nanoemulsions as stable contrast agents. , 2019, , .		1
69	Radiation-enhanced nanobubble therapy: Monitoring treatment effects using photoacoustic imaging. , 2019, , .		0
70	Investigating the Kinetics of Blood Coagulation using Ultrasound. , 2019, , .		1
71	Differential frequency-domain photoacoustic microscope for blood oxygen saturation measurements. , 2019, , .		0
72	Determination of cell nucleus-to-cytoplasmic ratio using imaging flow cytometry and a combined ultrasound and photoacoustic technique: a comparison study. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	25

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73	Photoacoustic simulations of microvascular bleeding: spectral analysis and its application for monitoring vascular-targeted treatments. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	7
74	Experimental design and numerical investigation of a photoacoustic sensor for a low-power, continuous-wave, laser-based frequency-domain photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	5
75	Opto-acoustic imaging of relative blood oxygen saturation and total hemoglobin for breast cancer diagnosis. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	16
76	Dynamic light scattering optical coherence tomography to probe motion of subcellular scatterers. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	13
77	Measuring the nucleus-to-cytoplasmic ratio in PC-3 cells using photoacoustic flow cytometry and imaging flow cytometry. , 2019, , .		1
78	Comparison of measurements of the nucleus-to-cytoplasmic ratio in MCF-7 cells using ultra-high frequency photoacoustic microscopy and imaging flow cytometry. , 2019, , .		1
79	Perfluorocarbon bubbles as photoacoustic signal amplifiers for cancer theranostics. <i>Optical Materials Express</i> , 2019, 9, 4532.	1.6	15
80	Characterization of opto-acoustic color mapping for oxygen saturation of blood using biologically relevant phantoms. , 2019, , .		2
81	Individual nanobubbles detection using acoustic based flow cytometry. , 2019, , .		0
82	Investigation of the thermal properties of biological cells using a frequency domain photoacoustic microscope. , 2019, , .		0
83	<i>In vitro</i> photoacoustic spectroscopy of pulsatile blood flow: Probing the interrelationship between red blood cell aggregation and oxygen saturation. <i>Journal of Biophotonics</i> , 2018, 11, e201700300.	1.1	14
84	Photoacoustic cardiovascular imaging: a new technique for imaging of atherosclerosis and vulnerable plaque detection. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 032002.	0.6	9
85	Characterization of the In-Vivo Uptake of Novel Contrast Agents Using Photoacoustic Radiofrequency Spectra. , 2018, , .		0
86	High-Frame Rate 3D-Synthetic Transmit Aperture Imaging with a Reduced Number of Measurement Channels. , 2018, , .		1
87	Sizing Cells Using Acoustic Flow Cytometry. , 2018, , .		1
88	Image Reconstruction Combined With Interference Removal Using a Mixed-Domain Proximal Operator. <i>IEEE Signal Processing Letters</i> , 2018, 25, 1840-1844.	2.1	2
89	Nanobubble Facilitated Optoporation and Photoacoustic Imaging of BT-474 Breast Cancer Cells. , 2018, , .		1
90	Simulation of Photoacoustic Imaging of Red Blood Cell Aggregation Using a Numerical Model of Pulsatile Blood Flow. , 2018, , .		0

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91	Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging. <i>Nanotechnology</i> , 2018, 29, 505103.	1.3	29
92	Simultaneous ultra-high frequency photoacoustic microscopy and photoacoustic radiometry of zebrafish larvae in vivo. <i>Photoacoustics</i> , 2018, 12, 14-21.	4.4	18
93	K-nearest neighbor classification for the differentiation between freshly excised and decellularized rat kidneys using envelope statistics. , 2018, , .		2
94	Triplex micron-resolution acoustic, photoacoustic, and optical transmission microscopy via photoacoustic radiometry. <i>Optics Express</i> , 2018, 26, 22315.	1.7	7
95	Photoacoustic imaging for assessing ischemic kidney damage in vivo. , 2018, , .		2
96	Spectroscopic photoacoustics for assessing ischemic kidney damage. , 2018, , .		1
97	Simultaneous ultrasound and photoacoustics based flow cytometry. , 2018, , .		1
98	Photoacoustic field calculation for nonspherical axisymmetric fluid particles. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 015017.	0.6	16
99	Honey, I shrunk the bubbles: microfluidic vacuum shrinkage of lipid-stabilized microbubbles. <i>Soft Matter</i> , 2017, 13, 4011-4016.	1.2	14
100	Noninvasive tissue temperature estimation using nonlinear ultrasound harmonics. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
101	Stable microfluidic flow focusing using hydrostatics. <i>Biomicrofluidics</i> , 2017, 11, 034104.	1.2	30
102	A magnetic droplet vaporization approach using perfluorohexane-encapsulated magnetic mesoporous particles for ultrasound imaging and tumor ablation. <i>Biomaterials</i> , 2017, 134, 43-50.	5.7	41
103	Low-power noncontact photoacoustic microscope for bioimaging applications. <i>Journal of Biomedical Optics</i> , 2017, 22, 046001.	1.4	16
104	Spatial interference encoding patterns based photoacoustic microscopy. <i>Optics Communications</i> , 2017, 401, 23-28.	1.0	5
105	Photoacoustic signal characterization of cancer treatment response: Correlation with changes in tumor oxygenation. <i>Photoacoustics</i> , 2017, 5, 25-35.	4.4	44
106	Ultrasound spectral analysis of photoacoustic signals from red blood cell populations at different optical wavelengths. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
107	Quantitative photoacoustic assessment of red blood cell aggregation under pulsatile blood flow: experimental and theoretical approaches. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
108	Chemotherapy-Response Monitoring of Breast Cancer Patients Using Quantitative Ultrasound-Based Intra-Tumour Heterogeneities. <i>Scientific Reports</i> , 2017, 7, 10352.	1.6	44

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109	Ultrasound Imaging of Apoptosis: Spectroscopic Detection of DNA-Damage Effects In Vivo. <i>Methods in Molecular Biology</i> , 2017, 1644, 41-60.	0.4	0
110	High frequency ultrasound imaging and simulations of sea urchin oocytes. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 268-275.	0.5	2
111	Shrinking microbubbles with microfluidics: mathematical modelling to control microbubble sizes. <i>Soft Matter</i> , 2017, 13, 8796-8806.	1.2	10
112	Monitoring Quantitative Ultrasound Parameter Changes in a Cell Pellet Model of Cell Starvation. <i>Biophysical Journal</i> , 2017, 112, 2634-2640.	0.2	4
113	Photoacoustic ToF tomography of blood cells: From mathematical approximation to super-resolution. , 2017, , .		1
114	Preliminary photoacoustic imaging of the human radial artery for simultaneous assessment of red blood cell aggregation and oxygen saturation in vivo. , 2017, , .		1
115	Photoacoustic detection of cancer cells using targeted gold nanorod loaded PLGA nanoparticles. , 2017, , .		0
116	A preliminary study of the mean scatterer spacing estimation from pellets using wavelet-based cepstral analysis. , 2017, , .		0
117	Structurally random Fourier domain compressive sampling and frequency domain beamforming for ultrasound imaging. , 2017, , .		1
118	Theoretical and experimental investigation of the nonlinear dynamics of nanobubbles excited at clinically relevant ultrasound frequencies and pressures: The role of lipid shell buckling. , 2017, , .		2
119	Microfluidic shrinking of microbubble contrast agents. , 2017, , .		0
120	Enhancing fluorescein distribution from in situ forming PLGA implants using therapeutic ultrasound. , 2017, , .		1
121	Structurally enhanced contrast in photoacoustic microscopy with F-Mode imaging. , 2017, , .		1
122	Using ultrasound and photoacoustics to monitor in situ forming implant structure and drug release. , 2017, , .		1
123	Structurally enhanced contrast in photoacoustic microscopy with F-mode imaging. , 2017, , .		0
124	Preliminary photoacoustic imaging of the human radial artery for simultaneous assessment of red blood cell aggregation and oxygen saturation in vivo. , 2017, , .		5
125	Investigation of the nonlinear propagation of ultrasound through a bubbly medium including multiple scattering and bubble-bubble interaction: Theory and experiment. , 2017, , .		6
126	Ultrasound signal from sub-micron lipid-coated bubbles. , 2017, , .		4

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127	Using ultrasound and photoacoustics to monitor in situ forming implant structure and drug release. , 2017, , .		0
128	Probing Different Biological Length Scales Using Photoacoustics: From 1 to 1000 MHz. , 2017, , 303-324.		3
129	Photoacoustic measurements of red blood cell oxygen saturation in blood bags in situ. Proceedings of SPIE, 2017, , .	0.8	1
130	Application of image flow cytometry for the characterization of red blood cell morphology. Proceedings of SPIE, 2017, , .	0.8	4
131	Effect of chromatin structure on quantitative ultrasound parameters. Oncotarget, 2017, 8, 19631-19644.	0.8	4
132	Ultrasound Imaging of DNA-Damage Effects in Live Cultured Cells and in Brain Tissue. Methods in Molecular Biology, 2017, 1644, 23-40.	0.4	1
133	Multispectral photoacoustic bioimaging using low power continuous wave lasers. , 2017, , .		0
134	Rapid computation of photoacoustic fields from normal and pathological red blood cells using a Green's function method. Proceedings of SPIE, 2017, , .	0.8	0
135	Spatial interference encoding patterns based super resolved photoacoustic microscopy. , 2017, , .		0
136	Correlations in photoacoustic estimates of tumor oxygenation during novel cancer therapies with power Doppler measurements (Conference Presentation). , 2017, , .		0
137	Acoustic and Photoacoustic Inspection of Through-Silicon Vias in the GHz-Frequency Band. , 2017, , .		1
138	High-frequency ultrasound detection of cell death: Spectral differentiation of different forms of cell death in vitro. Oncoscience, 2016, 3, 275-287.	0.9	12
139	Simultaneous assessment of red blood cell aggregation and oxygen saturation under pulsatile flow using high-frequency photoacoustics. Biomedical Optics Express, 2016, 7, 2769.	1.5	18
140	Biodegradable polymeric nanoparticles containing gold nanoparticles and Paclitaxel for cancer imaging and drug delivery using photoacoustic methods. Biomedical Optics Express, 2016, 7, 4125.	1.5	33
141	Effect of optical wavelength on photoacoustic investigations of pulsatile blood flow. Proceedings of SPIE, 2016, , .	0.8	2
142	Acoustic and photoacoustic microscopy imaging of single leukocytes. , 2016, , .		0
143	Pseudoinverse Decoding Process in Delay-Encoded Synthetic Transmit Aperture Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1372-1379.	1.7	13
144	Cancer treatment response evaluation using photoacoustic signal envelop statistics: A preliminary study. , 2016, , .		1

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145	Photoacoustic radiofrequency spectroscopy for monitoring cancer treatment response. , 2016, , .		0
146	High frequency ultrasound imaging and spectral analysis of sea urchin oocytes. , 2016, , .		0
147	High frequency photoacoustic spectral analysis of erythrocyte programmed cell death (eryptosis). , 2016, , .		1
148	Temperature dependence of acoustic harmonics generated by nonlinear ultrasound wave propagation in water at various frequencies. Journal of the Acoustical Society of America, 2016, 139, 2475-2481.	0.5	15
149	Single red blood cell oxygenation saturation imaging with multispectral photoacoustic microscopy. , 2016, , .		1
150	In Vitro Studies of Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Biophysical Journal, 2016, 110, 503a.	0.2	2
151	Measuring intracellular motion in cancer cell using optical coherence tomography. , 2016, , .		1
152	Classification of biological cells using a sound wave based flow cytometer. Proceedings of SPIE, 2016, , .	0.8	7
153	One-layer microfluidic device for hydrodynamic 3D self-flow-focusing operating in low flow speed. Proceedings of SPIE, 2016, , .	0.8	1
154	Magnetic nanoparticle-promoted droplet vaporization for in vivo stimuli-responsive cancer theranostics. NPC Asia Materials, 2016, 8, e313-e313.	3.8	30
155	Synthesis of Stable Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Langmuir, 2016, 32, 10870-10880.	1.6	73
156	Differentiation between cellularized and decellularized mouse kidneys using mean scatterer spacing: A preliminary study. , 2016, , .		3
157	Large-pitch steerable synthetic transmit aperture imaging (LPSSTA). , 2016, , .		1
158	Plane-wave imaging using synthetic aperture imaging reconstruction technique with regularized singular-value decomposition (RSVD). , 2016, , .		1
159	Ultrasound and photoacoustic analysis of cell pellets at 200 MHz. , 2016, , .		0
160	Assessment of the Nucleus-to-Cytoplasmic Ratio in MCF-7 Cells Using Ultra-high Frequency Ultrasound and Photoacoustics. International Journal of Thermophysics, 2016, 37, 1.	1.0	17
161	Steering the receiving field of view (FOV) without applying delays insynthetic transmit aperture imaging (STA). , 2016, , .		0
162	Photoacoustic spectral analysis to sense programmed erythrocyte cell death (eryptosis) for monitoring cancer response to treatment. Proceedings of SPIE, 2016, , .	0.8	0

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163	Visualization and characterization of the acoustic radiation force assisted displacement of particles using an OCT technique (Conference Presentation). , 2016, , .		0
164	Photoacoustic simulation of microvessel bleeding: spectral analysis and its implication for monitoring vascular-targeted treatments. , 2016, , .		0
165	Monitoring cancer treatment response using photoacoustic and ultrasound spectral analysis in combination with oxygenation measurements (Conference Presentation). , 2016, , .		0
166	Biodegradable polymer based theranostic agents for photoacoustic imaging and cancer therapy. , 2016, , .		1
167	Simultaneous photoacoustic and optical attenuation imaging of single cells using photoacoustic microscopy. Proceedings of SPIE, 2016, , .	0.8	3
168	High resolution ultrasound and photoacoustic imaging of single cells. Photoacoustics, 2016, 4, 36-42.	4.4	72
169	Photoacoustic investigation of gold nanoshells for bioimaging applications. , 2016, , .		0
170	Single Cell Photoacoustic Microscopy: A Review. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 137-151.	1.9	126
171	Photoacoustic Imaging of Cancer Treatment Response: Early Detection of Therapeutic Effect from Thermosensitive Liposomes. PLoS ONE, 2016, 11, e0165345.	1.1	30
172	High-frequency ultrasound analysis of post-mitotic arrest cell death. Oncoscience, 2016, 3, 109-121.	0.9	7
173	Phase Change Nanoemulsions for Cancer Therapy and Imaging. Biophysical Journal, 2015, 108, 332a-333a.	0.2	1
174	Reducing the number of receiving channels using transmit-receive symmetry in synthetic transmit aperture imaging. , 2015, , .		0
175	Quantification of Ultrasonic Scattering Properties of In Vivo Tumor Cell Death in Mouse Models of Breast Cancer. Translational Oncology, 2015, 8, 463-473.	1.7	26
176	Classification of blood cells and tumor cells using label-free ultrasound and photoacoustics. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 741-749.	1.1	29
177	Multifunctional perfluorocarbon nanoemulsions for cancer therapy and imaging. , 2015, , .		0
178	Quantitative Ultrasound Spectroscopic Imaging for Characterization of Disease Extent in Prostate Cancer Patients. Translational Oncology, 2015, 8, 25-34.	1.7	13
179	Delay-encoded transmission and image reconstruction method in synthetic transmit aperture imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1745-1756.	1.7	40
180	High-frequency photoacoustic imaging of erythrocyte aggregation and oxygen saturation: probing hemodynamic relations under pulsatile blood flow. , 2015, , .		0

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181	Probing the in vivo changes in oxygen saturation with photoacoustic imaging as a non-invasive means of assessing treatment progression. Proceedings of SPIE, 2015, , .	0.8	2
182	Mean scatterer spacing estimation from pellets using cepstral analysis: A preliminary study. , 2015, , .		4
183	Realistic photoacoustic image simulations of collections of solid spheres using linear array transducer. Proceedings of SPIE, 2015, , .	0.8	1
184	Optical coherence tomography spectral analysis for detecting apoptosis<i>in vitro</i>and<i>in vivo</i>. Journal of Biomedical Optics, 2015, 20, 126001.	1.4	7
185	Nonlinear model of acoustical attenuation and speed of sound in a bubbly medium. , 2015, , .		6
186	Simulation studies of filtered spatial compounding (FSC) and filtered frequency compounding (FFC) in synthetic transmit aperture (STA) imaging. , 2015, , .		3
187	Low power continuous wave photoacoustic microscope for bioimaging applications. , 2015, , .		0
188	Evaluation of the morphological parameters of cancer cells using high-frequency ultrasound and photoacoustics. , 2015, , .		2
189	Numerical investigation of plasmonic properties of gold nanoshells. , 2015, , .		2
190	Ultrasonic characterization of extra-cellular matrix in decellularized murine kidney and liver. , 2015, , .		5
191	Influence of the pressure-dependent resonance frequency on the bifurcation structure and backscattered pressure of ultrasound contrast agents: a numerical investigation. Nonlinear Dynamics, 2015, 80, 889-904.	2.7	55
192	Temperature dependence of acoustic harmonics generated by nonlinear ultrasound beam propagation in<i>ex vivo</i>tissue and tissue-mimicking phantoms. International Journal of Hyperthermia, 2015, 31, 666-673.	1.1	14
193	Properties of cells through life and death “ an acoustic microscopy investigation. Cell Cycle, 2015, 14, 2891-2898.	1.3	20
194	High-Frequency Acoustic Impedance Imaging of Cancer Cells. Ultrasound in Medicine and Biology, 2015, 41, 2700-2713.	0.7	22
195	Exact solution for a photoacoustic wave from a finite-length cylindrical source. Journal of the Acoustical Society of America, 2015, 137, 1675-1682.	0.5	5
196	Gold-nanoshells as surface plasmon resonance (SPR). , 2015, , .		2
197	Non-invasive Monitoring of Ultrasound-Stimulated Microbubble Radiation Enhancement Using Photoacoustic Imaging. TCRT Express, 2014, 13, 435-44.	1.5	17
198	In vitro study of PLGA/PFH particles loaded with gold nanoparticles as theranostic agents for photoacoustic imaging and cancer therapy. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
199	Longitudinal monitoring of oxygen saturation with photoacoustic imaging. , 2014, , .		2
200	Ultra-high frequency acoustic impedance maps of MCF-7 cells. , 2014, , .		0
201	Modeling photoacoustic spectral features of micron-sized particles. Physics in Medicine and Biology, 2014, 59, 5795-5810.	1.6	37
202	Effective scatterer size estimates in HT-29 spheroids at 55 MHz and 80 MHz. , 2014, , .		0
203	Optoacoustic characterization of prostate cancer in an <i>in vivo</i> transgenic murine model. Journal of Biomedical Optics, 2014, 19, 056008.	1.4	21
204	Circulating tumor cell detection using photoacoustic spectral methods. , 2014, , .		1
205	Photoacoustic tissue characterization using envelope statistics and ultrasonic spectral parameters. Proceedings of SPIE, 2014, , .	0.8	7
206	Identification of red blood cell rouleaux formation using photoacoustic ultrasound spectroscopy. , 2014, , .		1
207	Detecting apoptosis <i>in vivo</i> and <i>ex vivo</i> using spectroscopic OCT and dynamic light scattering. , 2014, , .		0
208	Optical coherence tomography detection of shear wave propagation in inhomogeneous tissue equivalent phantoms and <i>ex-vivo</i> carotid artery samples. Biomedical Optics Express, 2014, 5, 895.	1.5	25
209	Delay-encoded transmission in synthetic transmit aperture (DE-STA) imaging. , 2014, , .		3
210	Development of a microfluidic device with integrated high frequency ultrasound probe for particle characterization. , 2014, , .		6
211	Simultaneous measurement of erythrocyte aggregation and oxygen saturation under <i>in vitro</i> pulsatile blood flow by high-frequency photoacoustics. , 2014, , .		1
212	Temperature dependence of harmonics generated by nonlinear ultrasound beam propagation in water: A simulation study. , 2014, , .		0
213	Comparison of different image reconstruction algorithms for synthetic transmit aperture imaging using sparse receiving array. , 2014, , .		2
214	Quantitative ultrasound analyses of cell starvation in HT-29 pellets. , 2014, , .		4
215	Photoacoustic detection and optical spectroscopy of high-intensity focused ultrasound-induced thermal lesions in biologic tissue. Medical Physics, 2014, 41, 053502.	1.6	20
216	PLGA/PFC particles loaded with gold nanoparticles as dual contrast agents for photoacoustic and ultrasound imaging. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
217	Personalization of breast cancer chemotherapy using noninvasive imaging methods to detect tumor cell death responses. Breast Cancer Management, 2014, 3, 31-35.	0.2	3
218	Laser-activated PLGA theranostic agents for cancer therapy in vivo. , 2014, , .		2
219	Assessing storage-induced red blood cell lesions using photoacoustic measurements of oxygen saturation and the frequency content of photoacoustic signals. , 2014, , .		2
220	Laser-Activatable PLGA Microparticles for Image-Guided Cancer Therapy In Vivo. Advanced Functional Materials, 2014, 24, 7674-7680.	7.8	59
221	Speckle statistics in OCT images: Monte Carlo simulations and experimental studies. Optics Letters, 2014, 39, 3472.	1.7	50
222	Quantifying temperature changes in tissue-mimicking fluid phantoms using optical coherence tomography and envelope statistics. , 2014, , .		2
223	Optical coherence tomography detection of shear wave propagation in MCF7 cell modules. , 2014, , .		0
224	Probing Different Biological Length Scales Using Photoacoustics: From 1 To 1000 MHz. , 2014, , 1-18.		6
225	Early prediction of therapy responses and outcomes in breast cancer patients using quantitative ultrasound spectral texture. Oncotarget, 2014, 5, 3497-3511.	0.8	55
226	Abstract LB-165: Early detection of the therapeutic effect in tumors treated with a thermosensitive liposome (TSL) using noninvasive ultrasound and photoacoustic imaging. , 2014, , .		0
227	High frequency label-free photoacoustic microscopy of single cells. Photoacoustics, 2013, 1, 49-53.	4.4	116
228	Conventional Frequency Ultrasonic Biomarkers of Cancer Treatment Response In Vivo. Translational Oncology, 2013, 6, 234-IN2.	1.7	59
229	Probing Red Blood Cell Morphology Using High-Frequency Photoacoustics. Biophysical Journal, 2013, 105, 59-67.	0.2	118
230	Nonlinear dynamics of polymer shell ultrasound contrast agents at 32 MHz ultrasonic excitations. , 2013, , .		0
231	Classifying normal and abnormal vascular tissues using photoacoustic signals. , 2013, , .		0
232	Photoacoustic radio-frequency spectroscopy (PA-RFS): A technique for monitoring absorber size and concentration. , 2013, , .		3
233	Photoacoustic assessment of oxygen saturation: effect of red blood cell aggregation. Proceedings of SPIE, 2013, , .	0.8	0
234	Optical coherence tomography detection of shear wave propagation in layered tissue equivalent phantoms. Proceedings of SPIE, 2013, , .	0.8	0

#	ARTICLE	IF	CITATIONS
235	A photoacoustic technique to measure the properties of single cells. , 2013, , .		2
236	Quantitative Ultrasound Evaluation of Tumor Cell Death Response in Locally Advanced Breast Cancer Patients Receiving Chemotherapy. Clinical Cancer Research, 2013, 19, 2163-2174.	3.2	108
237	Investigating longitudinal changes in the mechanical properties of MCF-7 cells exposed to paclitaxol using particle tracking microrheology. Physics in Medicine and Biology, 2013, 58, 923-936.	1.6	26
238	Improving the quality of photoacoustic images using the short-lag spatial coherence imaging technique. Proceedings of SPIE, 2013, , .	0.8	25
239	Low-frequency quantitative ultrasound imaging of cell death <i>in vivo</i> . Medical Physics, 2013, 40, 082901.	1.6	57
240	Vaporization, photoacoustic and acoustic characterization of PLGA/PFH particles loaded with optically absorbing materials. , 2013, , .		1
241	Acoustic and photoacoustic imaging of spheroids. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
242	From high-frequency to low-frequency cell death detection: quantitative ultrasound evaluation of tumor response in breast cancer. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
243	Bifurcation structure of the ultrasonically excited microbubbles undergoing buckling and rupture. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
244	Acoustic Microscopy of Cells. , 2013, , 315-341.		2
245	Sound speed estimation in single cells using the ultrasound backscatter power spectrum. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
246	Quantitative Ultrasound and Cell Death. , 2013, , 95-115.		1
247	Acoustical imaging of internal spheroid structures for a series of frequencies. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
248	An analysis of the acoustic properties of the cell cycle and apoptosis in MCF-7 cells. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
249	Acoustic and photoacoustic characterization of micron-sized perfluorocarbon emulsions. Journal of Biomedical Optics, 2012, 17, 0960161.	1.4	40
250	Feasibility of optical coherence elastography measurements of shear wave propagation in homogeneous tissue equivalent phantoms. Biomedical Optics Express, 2012, 3, 972.	1.5	77
251	On the use of photoacoustics to detect red blood cell aggregation. Biomedical Optics Express, 2012, 3, 2326.	1.5	46
252	Photoacoustic measurements of single red blood cells. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
253	Detection and characterization of higher order nonlinearities in the oscillations of Definity at higher frequencies and very low acoustic pressures. , 2012, , .		4
254	Simultaneous photoacoustic detection of red blood cell aggregation and oxygenation. , 2012, , .		0
255	Imaging innovations for cancer therapy response monitoring. Imaging in Medicine, 2012, 4, 311-327.	0.0	46
256	Validity of a theoretical model to examine blood oxygenation dependent optoacoustics. Journal of Biomedical Optics, 2012, 17, 055002.	1.4	19
257	Biomechanical properties of soft tissue measurement using optical coherence elastography. Proceedings of SPIE, 2012, , .	0.8	1
258	Photoacoustic ultrasound spectroscopy for assessing red blood cell aggregation and oxygenation. Journal of Biomedical Optics, 2012, 17, 125006.	1.4	68
259	Measuring intracellular motion using dynamic light scattering with optical coherence tomography in a mouse tumor model. Proceedings of SPIE, 2012, , .	0.8	3
260	Detection and characterization of red blood cell (RBC) aggregation with photoacoustics. Proceedings of SPIE, 2012, , .	0.8	4
261	On the potential of using photoacoustic spectroscopy to monitor red blood cell aggregation. Proceedings of SPIE, 2012, , .	0.8	1
262	Photoacoustic spectral characterization of perfluorocarbon droplets. , 2012, , .		3
263	Frequency analysis of optoacoustic signals in laser heated tissues. , 2012, , .		1
264	Quantitative Ultrasound for the Monitoring of Novel Microbubble and Ultrasound Radiosensitization. Ultrasound in Medicine and Biology, 2012, 38, 1212-1221.	0.7	35
265	Numerical and experimental classification of the oscillations of single isolated microbubbles: Occurrence of higher order subharmonics. , 2012, , .		1
266	Classification of the nonlinear dynamics and bifurcation structure of ultrasound contrast agents excited at higher multiples of their resonance frequency. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2222-2229.	0.9	41
267	The utilization of the bubble pressure dependent harmonic resonance frequency for enhanced heating during high intensity focused ultrasound treatments. AIP Conference Proceedings, 2012, , .	0.3	4
268	Surface modes and acoustic scattering of microspheres and ultrasound contrast agents. Journal of the Acoustical Society of America, 2012, 132, 1820-1829.	0.5	11
269	Optimization of the shear stress induced by ultrasonically-stimulated oscillating MBs: A theoretical investigation. , 2012, , .		2
270	Shear-wave generation using acoustic radiation force detected by Optical Coherence Elastography. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
271	Hybrid Quantum Dot~Fatty Ester Stealth Nanoparticles: Toward Clinically Relevant <i>in Vivo</i> Optical Imaging of Deep Tissue. ACS Nano, 2011, 5, 1958-1966.	7.3	56
272	Sound velocity and attenuation measurements of perfluorocarbon liquids using photoacoustic methods. , 2011, , .		14
273	A simulation study on photoacoustic signals from red blood cells. Journal of the Acoustical Society of America, 2011, 129, 2935-2943.	0.5	80
274	Effects of cell spatial organization and size distribution on ultrasound backscattering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2118-2131.	1.7	37
275	Vaporization of perfluorocarbon droplets using optical irradiation. Biomedical Optics Express, 2011, 2, 1432.	1.5	123
276	Dynamics of laser induced thermoelastic expansion of native and coagulated ex-vivo soft tissue samples and their optical and thermo-mechanical properties. , 2011, , .		3
277	Optical coherence tomography speckle decorrelation for detecting cell death. Proceedings of SPIE, 2011, , .	0.8	4
278	Cell death monitoring using quantitative optical coherence tomography methods. Proceedings of SPIE, 2011, , .	0.8	1
279	Detecting abnormal vasculature from photoacoustic signals using wavelet-packet features. Proceedings of SPIE, 2011, , .	0.8	13
280	Ultrasound drug targeting to tumors with thermosensitive liposomes. , 2011, , .		3
281	Optoacoustic signal amplitude and frequency spectrum analysis laser heated bovine liver ex vivo. , 2011, , .		11
282	A Monte Carlo study on the effects of erythrocyte oxygenation on photoacoustic signals. , 2011, , .		0
283	Optical droplet vaporization of micron-sized perfluorocarbon droplets and their photoacoustic detection. , 2011, , .		7
284	Detecting apoptosis using dynamic light scattering with optical coherence tomography. Journal of Biomedical Optics, 2011, 16, 070505.	1.4	46
285	Effects of erythrocyte oxygenation on optoacoustic signals. Journal of Biomedical Optics, 2011, 16, 115003.	1.4	27
286	Detecting cell death with optical coherence tomography and envelope statistics. Journal of Biomedical Optics, 2011, 16, 026017.	1.4	32
287	Characterization of red blood cell aggregation with photoacoustics: A theoretical and experimental study. , 2011, , .		2
288	Ultrasound Imaging of Apoptosis: Spectroscopic Detection of DNA-Damage Effects at High and Low Frequencies. Methods in Molecular Biology, 2011, 682, 165-187.	0.4	24

#	ARTICLE	IF	CITATIONS
289	Evaluating the extent of cell death in 3D high frequency ultrasound by registration with	1.6	10
290	An Increase in Cellular Size Variance Contributes to the Increase in Ultrasound Backscatter During Cell Death. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1546-1558.	0.7	36
291	Study of laser-induced thermoelastic deformation of native and coagulated ex-vivo bovine liver tissues for estimating their optical and thermomechanical properties. <i>Journal of Biomedical Optics</i> , 2010, 15, 065002.	1.4	32
292	A simulation study on ultrasound backscattering by cell aggregates with poly-disperse cells. , 2010, , .		1
293	Quantitative measurements of apoptotic cell properties using acoustic microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 2293-2304.	1.7	73
294	The measurement of ultrasound scattering from individual micron-sized objects and its application in single cell scattering. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 894-902.	0.5	25
295	Optoacoustic imaging of an animal model of prostate cancer. , 2010, , .		5
296	Dynamics of thermoelastic expansion for native and coagulated ex vivo bovine liver tissues. , 2010, , .		1
297	Ultrasound detection of cell death. <i>Imaging in Medicine</i> , 2010, 2, 17-28.	0.0	37
298	Photoacoustic Microscopy and Spectroscopy of Individual Red Blood Cells. , 2010, , .		10
299	Gigahertz optoacoustic imaging for cellular imaging. <i>Proceedings of SPIE</i> , 2010, , .	0.8	10
300	A comparison of cellular ultrasonic properties during apoptosis and mitosis using acoustic microscopy. , 2010, , .		3
301	Optical droplet vaporization (ODV): Photoacoustic characterization of perfluorocarbon droplets. , 2010, , .		9
302	A Theoretical Model for RF Ablation of Kidney Tissue and Its Experimental Validation. <i>Lecture Notes in Computer Science</i> , 2010, , 119-129.	1.0	7
303	Quantitative Optical Coherence Tomography Imaging of Cell Death. , 2010, , .		0
304	Quantifying the ultrasonic properties of cells during apoptosis using time resolved acoustic microscopy. , 2009, , .		6
305	A novel technique for measuring ultrasound backscatter from single micron-sized objects. , 2009, , .		0
306	Measuring the mechanical properties of cells using acoustic microscopy. , 2009, 2009, 6042-5.		10

#	ARTICLE	IF	CITATIONS
307	High frequency optoacoustic microscopy. , 2009, 2009, 5883-6.		11
308	Signal analysis for the estimation of mechanical parameters of viable cells using GHz-acoustic microscopy. , 2009, , .		1
309	Quantitative Ultrasound Characterization of Responses to Radiotherapy in Cancer Mouse Models. Clinical Cancer Research, 2009, 15, 2067-2075.	3.2	95
310	Assessment of opto-mechanical behavior of biological samples by interferometry. Proceedings of SPIE, 2009, , .	0.8	7
311	Optoacoustic detection of thermal lesions. Proceedings of SPIE, 2009, , .	0.8	6
312	Potential use of ultrasound for the detection of cell changes in cancer treatment. Future Oncology, 2009, 5, 1527-1532.	1.1	29
313	Monitoring of Cell Death in Epithelial Cells Using High Frequency Ultrasound Spectroscopy. Ultrasound in Medicine and Biology, 2009, 35, 482-493.	0.7	23
314	Quantitative Ultrasound Characterization of Cancer Radiotherapy Effects In Vitro. International Journal of Radiation Oncology Biology Physics, 2008, 72, 1236-1243.	0.4	75
315	Novel Low-frequency Ultrasound Monitoring of Tumor Cell Death in Response to Therapy. International Journal of Radiation Oncology Biology Physics, 2008, 72, S684.	0.4	0
316	High Frequency Ultrasound Tissue Characterization and Acoustic Microscopy of Intracellular Changes. Ultrasound in Medicine and Biology, 2008, 34, 1396-1407.	0.7	50
317	Ultrasound Imaging of Apoptosis in Tumor Response: Novel Preclinical Monitoring of Photodynamic Therapy Effects. Cancer Research, 2008, 68, 8590-8596.	0.4	130
318	Photoacoustic detection of protein coagulation in albumen-based phantoms. Proceedings of SPIE, 2008, , .	0.8	8
319	A study of high frequency ultrasound scattering from non-nucleated biological specimens. Journal of the Acoustical Society of America, 2008, 124, EL278-EL283.	0.5	13
320	P6C-4 Extended System Transfer Compensation for Parametric Imaging in Ultrasonic Response Assessment of Anti-Cancer Therapies. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
321	P3D-3 Transmission Ultrasound Imaging to Guide Thermal Therapy. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
322	The fluid and elastic nature of nucleated cells: Implications from the cellular backscatter response. Journal of the Acoustical Society of America, 2007, 121, EL16-EL22.	0.5	25
323	Two-dimensional velocity estimation for Doppler optical coherence tomography. , 2007, , .		1
324	Wide dynamic range detection of bidirectional flow in Doppler optical coherence tomography using a two-dimensional Kasai estimator. Optics Letters, 2007, 32, 253.	1.7	32

#	ARTICLE	IF	CITATIONS
325	Ultrasonic Characterization of Whole Cells and Isolated Nuclei. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 389-401.	0.7	102
326	Monitoring Responses to Treatment With High-Frequency Ultrasound In Vivo: Assessing Response to Radiation vs. Photodynamic Therapy in Melanoma Xenograft Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, S69-S70.	0.4	0
327	High-Frequency Ultrasound Assessment of Antimicrobial Photodynamic Therapy In Vitro. <i>Journal of Biological Physics</i> , 2007, 33, 61-66.	0.7	4
328	Examination of contrast mechanisms in optoacoustic imaging of thermal lesions. , 2006, , .		1
329	An investigation of the use of transmission ultrasound to measure acoustic attenuation changes in thermal therapy. <i>Medical and Biological Engineering and Computing</i> , 2006, 44, 583-591.	1.6	20
330	2G-4 Investigating the Effect of Cell Size on the Backscatter from Suspensions of Varying Volume Fractions. , 2006, , .		1
331	2G-1 Ultrasonic Assessment of Death in HEp2 Cells Using Spectral and Wavelet Based Analysis of Backscattered RF-Signals. , 2006, , .		1
332	P3E-3 Finite Element Modeling of Ultrasound Scattering by Spherical Objects and Cells. , 2006, , .		0
333	Monitoring structural changes in cells with high-frequency ultrasound signal statistics. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1041-1049.	0.7	104
334	High-frequency ultrasound for monitoring changes in liver tissue during preservation. <i>Physics in Medicine and Biology</i> , 2005, 50, 197-213.	1.6	36
335	Visualization of apoptotic cells using scanning acoustic microscopy and high frequency ultrasound. , 2005, , .		6
336	High-frequency ultrasound scattering from microspheres and single cells. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 934-943.	0.5	96
337	Attenuation mapping for monitoring thermal therapy using ultrasound transmission imaging. , 2004, 2004, 1329-32.		6
338	Changes in dielectric properties at 460 kHz of kidney and fat during heating: importance for radio-frequency thermal therapy. <i>Physics in Medicine and Biology</i> , 2003, 48, 2509-2525.	1.6	74
339	Ultrasound Imaging of Apoptosis: DNA-Damage Effects Visualized. , 2002, 203, 257-277.		13
340	<title>Ultrasound backscatter microscopy/spectroscopy and optical coherence (Doppler) tomography for mechanism-specific monitoring of photodynamic therapy in vivo and in vitro</title>. , 2002, , .		6
341	Ultrasound Biomicroscopy as a Probe of Cellular Ultrastructure. <i>Microscopy and Microanalysis</i> , 2002, 8, 1028-1029.	0.2	0
342	A model based upon pseudo regular spacing of cells combined with the randomisation of the nuclei can explain the significant changes in high-frequency ultrasound signals during apoptosis. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 217-226.	0.7	63

#	ARTICLE	IF	CITATIONS
343	Ultrasonic spectral parameter characterization of apoptosis. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 589-597.	0.7	177
344	Comparison of thermal damage calculated using magnetic resonance thermometry, with magnetic resonance imaging post-treatment and histology, after interstitial microwave thermal therapy of rabbit brain. <i>Physics in Medicine and Biology</i> , 2000, 45, 3563-3576.	1.6	72
345	The effects of dynamic optical properties during interstitial laser photocoagulation. <i>Physics in Medicine and Biology</i> , 2000, 45, 1335-1357.	1.6	67
346	An investigation of the flow dependence of temperature gradients near large vessels during steady state and transient tissue heating. <i>Physics in Medicine and Biology</i> , 1999, 44, 1479-1497.	1.6	31
347	Ultrasound imaging of apoptosis: high-resolution non-invasive monitoring of programmed cell death in vitro, in situ and in vivo. <i>British Journal of Cancer</i> , 1999, 81, 520-527.	2.9	194
348	A theoretical comparison of energy sources - microwave, ultrasound and laser - for interstitial thermal therapy. <i>Physics in Medicine and Biology</i> , 1998, 43, 3535-3547.	1.6	244
349	Experimental evaluation of two simple thermal models using transient temperature analysis. <i>Physics in Medicine and Biology</i> , 1998, 43, 3325-3340.	1.6	60
350	Magnetic resonance imaging of temperature changes during interstitial microwave heating: A phantom study. <i>Medical Physics</i> , 1997, 24, 269-277.	1.6	61
351	Ultrasonic biomicroscopy of viable, dead and apoptotic cells. <i>Ultrasound in Medicine and Biology</i> , 1997, 23, 961-965.	0.7	114
352	Blood flow cooling and ultrasonic lesion formation. <i>Medical Physics</i> , 1996, 23, 1287-1298.	1.6	86
353	Large blood vessel cooling in heated tissues: a numerical study. <i>Physics in Medicine and Biology</i> , 1995, 40, 477-494.	1.6	125
354	Influence of transition rates and scan rate on kinetic simulations of differential scanning calorimetry profiles of reversible and irreversible protein denaturation. <i>Biochemistry</i> , 1992, 31, 12706-12712.	1.2	168
355	Towards understanding the nature of high frequency backscatter from cells and tissues: an investigation of backscatter power spectra from different concentrations of cells of different sizes. , 0, , .		8
356	High frequency ultrasound signal statistics from mouse mammary tissue during involution. , 0, , .		1
357	High frequency ultrasound in monitoring liver suitability for transplantation. , 0, , .		3
358	The effect of volume fraction on the backscatter from nucleated cells at high frequencies. , 0, , .		3
359	Using high frequency ultrasound envelope statistics to determine scatterer number density in dilute cell solutions. , 0, , .		7
360	Ultrasonic detection of anti cancer treatment success using tissue acoustic properties and parametric imaging. , 0, , .		0