Michael C Kolios

List of Publications by Year
in descending order

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360	6,939	57758	91884
papers	citations	44 h-index	69 g-index

382	382	382	4730
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A theoretical comparison of energy sources - microwave, ultrasound and laser - for interstitial thermal therapy. Physics in Medicine and Biology, 1998, 43, 3535-3547.	3.0	244
2	Ultrasound imaging of apoptosis: high-resolution non-invasive monitoring of programmed cell death in vitro, in situ and in vivo. British Journal of Cancer, 1999, 81, 520-527.	6.4	194
3	Ultrasonic spectral parameter characterization of apoptosis. Ultrasound in Medicine and Biology, 2002, 28, 589-597.	1.5	177
4	Influence of transition rates and scan rate on kinetic simulations of differential scanning calorimetry profiles of reversible and irreversible protein denaturation. Biochemistry, 1992, 31, 12706-12712.	2.5	168
5	Ultrasound Imaging of Apoptosis in Tumor Response: Novel Preclinical Monitoring of Photodynamic Therapy Effects. Cancer Research, 2008, 68, 8590-8596.	0.9	130
6	Single Cell Photoacoustic Microscopy: A Review. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 137-151.	2.9	126
7	Large blood vessel cooling in heated tissues: a numerical study. Physics in Medicine and Biology, 1995, 40, 477-494.	3.0	125
8	Vaporization of perfluorocarbon droplets using optical irradiation. Biomedical Optics Express, 2011, 2, 1432.	2.9	123
9	Probing Red Blood Cell Morphology Using High-Frequency Photoacoustics. Biophysical Journal, 2013, 105, 59-67.	0.5	118
10	High frequency label-free photoacoustic microscopy of single cells. Photoacoustics, 2013, 1, 49-53.	7.8	116
11	Ultrasonic biomicroscopy of viable, dead and apoptotic cells. Ultrasound in Medicine and Biology, 1997, 23, 961-965.	1.5	114
12	Quantitative Ultrasound Evaluation of Tumor Cell Death Response in Locally Advanced Breast Cancer Patients Receiving Chemotherapy. Clinical Cancer Research, 2013, 19, 2163-2174.	7.0	108
13	Monitoring structural changes in cells with high-frequency ultrasound signal statistics. Ultrasound in Medicine and Biology, 2005, 31, 1041-1049.	1.5	104
14	Ultrasonic Characterization of Whole Cells and Isolated Nuclei. Ultrasound in Medicine and Biology, 2007, 33, 389-401.	1.5	102
15	High-frequency ultrasound scattering from microspheres and single cells. Journal of the Acoustical Society of America, 2005, 117, 934-943.	1.1	96
16	Quantitative Ultrasound Characterization of Responses to Radiotherapy in Cancer Mouse Models. Clinical Cancer Research, 2009, 15, 2067-2075.	7.0	95
17	Blood flow cooling and ultrasonic lesion formation. Medical Physics, 1996, 23, 1287-1298.	3.0	86
18	Contrast enhanced ultrasound imaging by nature-inspired ultrastable echogenic nanobubbles. Nanoscale, 2019, 11, 15647-15658.	5.6	86

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19	A simulation study on photoacoustic signals from red blood cells. Journal of the Acoustical Society of America, 2011, 129, 2935-2943.	1.1	80
20	Feasibility of optical coherence elastography measurements of shear wave propagation in homogeneous tissue equivalent phantoms. Biomedical Optics Express, 2012, 3, 972.	2.9	77
21	Quantitative Ultrasound Characterization of Cancer Radiotherapy Effects In Vitro. International Journal of Radiation Oncology Biology Physics, 2008, 72, 1236-1243.	0.8	75
22	Changes in dielectric properties at 460 kHz of kidney and fat during heating: importance for radio-frequency thermal therapy. Physics in Medicine and Biology, 2003, 48, 2509-2525.	3.0	74
23	Quantitative measurements of apoptotic cell properties using acoustic microscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2293-2304.	3.0	73
24	Synthesis of Stable Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Langmuir, 2016, 32, 10870-10880.	3.5	73
25	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. Physics in Medicine and Biology, 2000, 45, 3563-3576.	3.0	72
26	High resolution ultrasound and photoacoustic imaging of single cells. Photoacoustics, 2016, 4, 36-42.	7.8	72
27	Photoacoustic ultrasound spectroscopy for assessing red blood cell aggregation and oxygenation. Journal of Biomedical Optics, 2012, 17, 125006.	2.6	68
28	The effects of dynamic optical properties during interstitial laser photocoagulation. Physics in Medicine and Biology, 2000, 45, 1335-1357.	3.0	67
29	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. Ultrasound in Medicine and Biology, 2002, 28, 217-226.	1.5	63
30	Sink or float? Characterization of shell-stabilized bulk nanobubbles using a resonant mass measurement technique. Nanoscale, 2019, 11, 851-855.	5.6	62
31	PMMA-Fe₃O₄ for internal mechanical support and magnetic thermal ablation of bone tumors. Theranostics, 2019, 9, 4192-4207.	10.0	62
32	Magnetic resonance imaging of temperature changes during interstitial microwave heating: A phantom study. Medical Physics, 1997, 24, 269-277.	3.0	61
33	Experimental evaluation of two simple thermal models using transient temperature analysis. Physics in Medicine and Biology, 1998, 43, 3325-3340.	3.0	60
34	Conventional Frequency Ultrasonic Biomarkers of Cancer Treatment Response In Vivo. Translational Oncology, 2013, 6, 234-IN2.	3.7	59
35	Laserâ€Activatible PLGA Microparticles for Imageâ€Guided Cancer Therapy In Vivo. Advanced Functional Materials, 2014, 24, 7674-7680.	14.9	59
36	Low-frequency quantitative ultrasound imaging of cell death in vivo. Medical Physics, 2013, 40, 082901.	3.0	57

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37	Objective assessment of stored blood quality by deep learning. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21381-21390.	7.1	57
38	Hybrid Quantum Dotâ"Fatty Ester Stealth Nanoparticles: Toward Clinically Relevant in Vivo Optical Imaging of Deep Tissue. ACS Nano, 2011, 5, 1958-1966.	14.6	56
39	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.	5.2	55
40	Early prediction of therapy responses and outcomes in breast cancer patients using quantitative ultrasound spectral texture. Oncotarget, 2014, 5, 3497-3511.	1.8	55
41	High Frequency Ultrasound Tissue Characterization and Acoustic Microscopy of Intracellular Changes. Ultrasound in Medicine and Biology, 2008, 34, 1396-1407.	1.5	50
42	Speckle statistics in OCT images: Monte Carlo simulations and experimental studies. Optics Letters, 2014, 39, 3472.	3.3	50
43	Quantitative ultrasound radiomics in predicting response to neoadjuvant chemotherapy in patients with locally advanced breast cancer: Results from multiâ€institutional study. Cancer Medicine, 2020, 9, 5798-5806.	2.8	50
44	Detecting apoptosis using dynamic light scattering with optical coherence tomography. Journal of Biomedical Optics, 2011, 16, 070505.	2.6	46
45	On the use of photoacoustics to detect red blood cell aggregation. Biomedical Optics Express, 2012, 3, 2326.	2.9	46
46	Imaging innovations for cancer therapy response monitoring. Imaging in Medicine, 2012, 4, 311-327.	0.0	46
47	Bursting microbubbles: How nanobubble contrast agents can enable the future of medical ultrasound molecular imaging and image-guided therapy. Current Opinion in Colloid and Interface Science, 2021, 54, 101463.	7.4	45
48	Photoacoustic signal characterization of cancer treatment response: Correlation with changes in tumor oxygenation. Photoacoustics, 2017, 5, 25-35.	7.8	44
49	Chemotherapy-Response Monitoring of Breast Cancer Patients Using Quantitative Ultrasound-Based Intra-Tumour Heterogeneities. Scientific Reports, 2017, 7, 10352.	3.3	44
50	Toward Precisely Controllable Acoustic Response of Shell-Stabilized Nanobubbles: High Yield and Narrow Dispersity. ACS Nano, 2021, 15, 4901-4915.	14.6	43
51	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.	5.2	42
52	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.	2.1	41
53	A magnetic droplet vaporization approach using perfluorohexane-encapsulated magnetic mesoporous particles for ultrasound imaging and tumor ablation. Biomaterials, 2017, 134, 43-50.	11.4	41
54	Quantitative ultrasound radiomics for therapy response monitoring in patients with locally advanced breast cancer: Multi-institutional study results. PLoS ONE, 2020, 15, e0236182.	2.5	41

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55	Acoustic and photoacoustic characterization of micron-sized perfluorocarbon emulsions. Journal of Biomedical Optics, 2012, 17, 0960161.	2.6	40
56	Delay-encoded transmission and image reconstruction method in synthetic transmit aperture imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1745-1756.	3.0	40
57	Collective nonlinear behavior of interacting polydisperse microbubble clusters. Ultrasonics Sonochemistry, 2019, 58, 104708.	8.2	40
58	Ultrasound detection of cell death. Imaging in Medicine, 2010, 2, 17-28.	0.0	37
59	Effects of cell spatial organization and size distribution on ultrasound backscattering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2118-2131.	3.0	37
60	Modeling photoacoustic spectral features of micron-sized particles. Physics in Medicine and Biology, 2014, 59, 5795-5810.	3.0	37
61	High-frequency ultrasound for monitoring changes in liver tissue during preservation. Physics in Medicine and Biology, 2005, 50, 197-213.	3.0	36
62	An Increase in Cellular Size Variance Contributes to the Increase in Ultrasound Backscatter During Cell Death. Ultrasound in Medicine and Biology, 2010, 36, 1546-1558.	1.5	36
63	Quantitative Ultrasound for the Monitoring of Novel Microbubble and Ultrasound Radiosensitization. Ultrasound in Medicine and Biology, 2012, 38, 1212-1221.	1.5	35
64	Biodegradable polymeric nanoparticles containing gold nanoparticles and Paclitaxel for cancer imaging and drug delivery using photoacoustic methods. Biomedical Optics Express, 2016, 7, 4125.	2.9	33
65	Wide dynamic range detection of bidirectional flow in Doppler optical coherence tomography using a two-dimensional Kasai estimator. Optics Letters, 2007, 32, 253.	3.3	32
66	Study of laser-induced thermoelastic deformation of native and coagulated ex-vivo bovine liver tissues for estimating their optical and thermomechanical properties. Journal of Biomedical Optics, 2010, 15, 065002.	2.6	32
67	Detecting cell death with optical coherence tomography and envelope statistics. Journal of Biomedical Optics, 2011, 16, 026017.	2.6	32
68	An investigation of the flow dependence of temperature gradients near large vessels during steady state and transient tissue heating. Physics in Medicine and Biology, 1999, 44, 1479-1497.	3.0	31
69	A simple method to analyze the super-harmonic and ultra-harmonic behavior of the acoustically excited bubble oscillator. Ultrasonics Sonochemistry, 2019, 54, 99-109.	8.2	31
70	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, .	4.0	31
71	Magnetic nanoparticle-promoted droplet vaporization for in vivo stimuli-responsive cancer theranostics. NPG Asia Materials, 2016, 8, e313-e313.	7.9	30
72	Stable microfluidic flow focusing using hydrostatics. Biomicrofluidics, 2017, 11, 034104.	2.4	30

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73	Simultaneous acoustic and photoacoustic microfluidic flow cytometry for label-free analysis. Scientific Reports, 2019, 9, 1585.	3.3	30
74	Photoacoustic Imaging of Cancer Treatment Response: Early Detection of Therapeutic Effect from Thermosensitive Liposomes. PLoS ONE, 2016, 11, e0165345.	2.5	30
75	Potential use of ultrasound for the detection of cell changes in cancer treatment. Future Oncology, 2009, 5, 1527-1532.	2.4	29
76	Classification of blood cells and tumor cells using labelâ€free ultrasound and photoacoustics. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 741-749.	1.5	29
77	Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging. Nanotechnology, 2018, 29, 505103.	2.6	29
78	Nonlinear power loss in the oscillations of coated and uncoated bubbles: Role of thermal, radiation and encapsulating shell damping at various excitation pressures. Ultrasonics Sonochemistry, 2020, 66, 105070.	8.2	29
79	Nonlinear dynamics and bifurcation structure of ultrasonically excited lipid coated microbubbles. Ultrasonics Sonochemistry, 2021, 72, 105405.	8.2	28
80	Effects of erythrocyte oxygenation on optoacoustic signals. Journal of Biomedical Optics, 2011, 16, 115003.	2.6	27
81	Theoretical and Experimental Gas Volume Quantification of Micro- and Nanobubble Ultrasound Contrast Agents. Pharmaceutics, 2020, 12, 208.	4.5	27
82	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.	3.0	26
83	Quantification of Ultrasonic Scattering Properties of In Vivo Tumor Cell Death in Mouse Models of Breast Cancer. Translational Oncology, 2015, 8, 463-473.	3.7	26
84	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.	1.1	25
85	The measurement of ultrasound scattering from individual micron-sized objects and its application in single cell scattering. Journal of the Acoustical Society of America, 2010, 128, 894-902.	1.1	25
86	Improving the quality of photoacoustic images using the short-lag spatial coherence imaging technique. Proceedings of SPIE, 2013, , .	0.8	25
87	Optical coherence tomography detection of shear wave propagation in inhomogeneous tissue equivalent phantoms and ex-vivo carotid artery samples. Biomedical Optics Express, 2014, 5, 895.	2.9	25
88	Near-infrared absorbing nanoemulsions as nonlinear ultrasound contrast agents for cancer theranostics. Journal of Molecular Liquids, 2019, 287, 110848.	4.9	25
89	Insights into photoacoustic speckle and applications in tumor characterization. Photoacoustics, 2019, 14, 37-48.	7.8	25
90	Determination of cell nucleus-to-cytoplasmic ratio using imaging flow cytometry and a combined ultrasound and photoacoustic technique: a comparison study. Journal of Biomedical Optics, 2019, 24, 1.	2.6	25

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91	Ultrasound Imaging of Apoptosis: Spectroscopic Detection of DNA-Damage Effects at High and Low Frequencies. Methods in Molecular Biology, 2011, 682, 165-187.	0.9	24
92	Photoacoustic imaging of kidney fibrosis for assessing pretransplant organ quality. JCI Insight, 2020, 5, .	5.0	24
93	Monitoring of Cell Death in Epithelial Cells Using High Frequency Ultrasound Spectroscopy. Ultrasound in Medicine and Biology, 2009, 35, 482-493.	1.5	23
94	High-Frequency Acoustic Impedance Imaging of Cancer Cells. Ultrasound in Medicine and Biology, 2015, 41, 2700-2713.	1.5	22
95	Critical corrections to models of nonlinear power dissipation of ultrasonically excited bubbles. Ultrasonics Sonochemistry, 2020, 66, 105089.	8.2	22
96	Optoacoustic characterization of prostate cancer in anin vivotransgenic murine model. Journal of Biomedical Optics, 2014, 19, 056008.	2.6	21
97	An investigation of the use of transmission ultrasound to measure acoustic attenuation changes in thermal therapy. Medical and Biological Engineering and Computing, 2006, 44, 583-591.	2.8	20
98	Photoacoustic detection and optical spectroscopy of high-intensity focused ultrasound-induced thermal lesions in biologic tissue. Medical Physics, 2014, 41, 053502.	3.0	20
99	Properties of cells through life and death â€“ an acoustic microscopy investigation. Cell Cycle, 2015, 14, 2891-2898.	2.6	20
100	Microfluidic Generation of Monodisperse Nanobubbles by Selective Gas Dissolution. Small, 2021, 17, e2100345.	10.0	20
101	Multifunctional nanoparticles as theranostic agents for therapy and imaging of breast cancer. Journal of Photochemistry and Photobiology B: Biology, 2021, 218, 112110.	3.8	20
102	Validity of a theoretical model to examine blood oxygenation dependent optoacoustics. Journal of Biomedical Optics, 2012, 17, 055002.	2.6	19
103	Pickering Bubbles as Dual-Modality Ultrasound and Photoacoustic Contrast Agents. ACS Applied Materials & Interfaces, 2020, 12, 22308-22317.	8.0	19
104	Experimental and numerical evidence of intensified non-linearity at the microscale: The lipid coated acoustic bubble. Physics of Fluids, 2021, 33, .	4.0	19
105	Simultaneous assessment of red blood cell aggregation and oxygen saturation under pulsatile flow using high-frequency photoacoustics. Biomedical Optics Express, 2016, 7, 2769.	2.9	18
106	Simultaneous ultra-high frequency photoacoustic microscopy and photoacoustic radiometry of zebrafish larvae in vivo. Photoacoustics, 2018, 12, 14-21.	7.8	18
107	Photoacoustic F-Mode imaging for scale specific contrast in biological systems. Communications Physics, 2019, 2, .	5.3	18
108	Sizing biological cells using a microfluidic acoustic flow cytometer. Scientific Reports, 2019, 9, 4775.	3.3	18

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109	Biomedical nanobubbles and opportunities for microfluidics. RSC Advances, 2021, 11, 32750-32774.	3.6	18
110	Comparison of methods for texture analysis of QUS parametric images in the characterization of breast lesions. PLoS ONE, 2020, 15, e0244965.	2.5	18
111	Non-invasive Monitoring of Ultrasound-Stimulated Microbubble Radiation Enhancement Using Photoacoustic Imaging. TCRT Express, 2014, 13, 435-44.	1.5	17
112	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.	2.1	17
113	Dosage-controlled intracellular delivery mediated by acoustofluidics for lab on a chip applications. Lab on A Chip, 2021, 21, 1788-1797.	6.0	17
114	A tutorial in photoacoustic microscopy and tomography signal processing methods. Journal of Applied Physics, 2021, 129, .	2.5	17
115	Photoacoustic field calculation for nonspherical axisymmetric fluid particles. Biomedical Physics and Engineering Express, 2017, 3, 015017.	1.2	16
116	Low-power noncontact photoacoustic microscope for bioimaging applications. Journal of Biomedical Optics, 2017, 22, 046001.	2.6	16
117	Labelâ€Free Analysis of Red Blood Cell Storage Lesions Using Imaging Flow Cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 976-984.	1.5	16
118	Photoacoustic imaging biomarkers for monitoring biophysical changes during nanobubble-mediated radiation treatment. Photoacoustics, 2020, 20, 100201.	7.8	16
119	Opto-acoustic imaging of relative blood oxygen saturation and total hemoglobin for breast cancer diagnosis. Journal of Biomedical Optics, 2019, 24, 1.	2.6	16
120	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.	1.1	15
121	Perfluorocarbon bubbles as photoacoustic signal amplifiers for cancer theranostics. Optical Materials Express, 2019, 9, 4532.	3.0	15
122	Sound velocity and attenuation measurements of perfluorocarbon liquids using photoacoustic methods. , 2011, , .		14
123	Temperature dependence of acoustic harmonics generated by nonlinear ultrasound beam propagation inex vivotissue and tissue-mimicking phantoms. International Journal of Hyperthermia, 2015, 31, 666-673.	2.5	14
124	Honey, I shrunk the bubbles: microfluidic vacuum shrinkage of lipid-stabilized microbubbles. Soft Matter, 2017, 13, 4011-4016.	2.7	14
125	In vitro photoacoustic spectroscopy of pulsatile blood flow: Probing the interrelationship between red blood cell aggregation and oxygen saturation. Journal of Biophotonics, 2018, 11, e201700300.	2.3	14
126	Ultrasound Imaging of Apoptosis: DNA-Damage Effects Visualized. , 2002, 203, 257-277.		13

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127	A study of high frequency ultrasound scattering from non-nucleated biological specimens. Journal of the Acoustical Society of America, 2008, 124, EL278-EL283.	1.1	13
128	Detecting abnormal vasculature from photoacoustic signals using wavelet-packet features. Proceedings of SPIE, 2011, , .	0.8	13
129	Quantitative Ultrasound Spectroscopic Imaging for Characterization of Disease Extent in Prostate Cancer Patients. Translational Oncology, 2015, 8, 25-34.	3.7	13
130	Pseudoinverse Decoding Process in Delay-Encoded Synthetic Transmit Aperture Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1372-1379.	3.0	13
131	On the threshold of 1/2 order subharmonic emissions in the oscillations of ultrasonically excited bubbles. Ultrasonics, 2021, 112, 106363.	3.9	13
132	Dynamic light scattering optical coherence tomography to probe motion of subcellular scatterers. Journal of Biomedical Optics, 2019, 24, 1.	2.6	13
133	High-frequency ultrasound detection of cell death: Spectral differentiation of different forms of cell death in vitro. Oncoscience, 2016, 3, 275-287.	2.2	12
134	Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells. Small, 2020, 16, 1903788.	10.0	12
135	Use of photoacoustic imaging for monitoring vascular disrupting cancer treatments. Journal of Biophotonics, 2023, 16, e202000209.	2.3	12
136	Laser activatable perfluorocarbon bubbles for imaging and therapy through enhanced absorption from coupled silica coated gold nanoparticles. RSC Advances, 2021, 11, 4906-4920.	3.6	12
137	High frequency optoacoustic microscopy. , 2009, 2009, 5883-6.		11
138	Optoacoustic signal amplitude and frequency spectrum analysis laser heated bovine liver ex vivo. , 2011, , .		11
139	Surface modes and acoustic scattering of microspheres and ultrasound contrast agents. Journal of the Acoustical Society of America, 2012, 132, 1820-1829.	1.1	11
140	Fluence-matching technique using photoacoustic radiofrequency spectra for improving estimates of oxygen saturation. Photoacoustics, 2020, 19, 100182.	7.8	11
141	Measuring the mechanical properties of cells using acoustic microscopy. , 2009, 2009, 6042-5.		10
142	Evaluating the extent of cell death in 3D high frequency ultrasound by registration with	3.0	10
143	Photoacoustic Microscopy and Spectroscopy of Individual Red Blood Cells. , 2010, , .		10
144	Gigahertz optoacoustic imaging for cellular imaging. Proceedings of SPIE, 2010, , .	0.8	10

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145	Shrinking microbubbles with microfluidics: mathematical modelling to control microbubble sizes. Soft Matter, 2017, 13, 8796-8806.	2.7	10
146	An artificially engineered â€œtumor bio-magnetâ€•for collecting blood-circulating nanoparticles and magnetic hyperthermia. Biomaterials Science, 2019, 7, 1815-1824.	5.4	10
147	MRI texture features from tumor core and margin in the prediction of response to neoadjuvant chemotherapy in patients with locally advanced breast cancer. Oncotarget, 2021, 12, 1354-1365.	1.8	10
148	Noninvasive calibrated tissue temperature estimation using backscattered energy of acoustic harmonics. Ultrasonics, 2021, 114, 106406.	3.9	10
149	Expansion-mediated breakup of bubbles and droplets in microfluidics. Physical Review Fluids, 2020, 5, .	2.5	10
150	Optical droplet vaporization (ODV): Photoacoustic characterization of perfluorocarbon droplets. , 2010, , .		9
151	Photoacoustic cardiovascular imaging: a new technique for imaging of atherosclerosis and vulnerable plaque detection. Biomedical Physics and Engineering Express, 2018, 4, 032002.	1.2	9
152	In situ forming implants exposed to ultrasound enhance therapeutic efficacy in subcutaneous murine tumors. Journal of Controlled Release, 2020, 324, 146-155.	9.9	9
153	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.	2.9	9
154	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
155	Photoacoustic detection of protein coagulation in albumen-based phantoms. Proceedings of SPIE, 2008, , .	0.8	8
156	PLGA/PFC particles loaded with gold nanoparticles as dual contrast agents for photoacoustic and ultrasound imaging. , 2014, , .		8
157	Feasibility of detecting change in backscattered energy of acoustic harmonics in locally heated tissues. International Journal of Hyperthermia, 2019, 36, 963-973.	2.5	8
158	Optical and photoacoustic radiofrequency spectroscopic analysis for detecting red blood cell death. Journal of Biophotonics, 2019, 12, e201800431.	2.3	8
159	The dance of the nanobubbles: detecting acoustic backscatter from sub-micron bubbles using ultra-high frequency acoustic microscopy. Nanoscale, 2020, 12, 21420-21428.	5.6	8
160	A priori prediction of response in multicentre locally advanced breast cancer (LABC) patients using quantitative ultrasound and derivative texture methods. Oncotarget, 2021, 12, 81-94.	1.8	8
161	Radiomics in predicting recurrence for patients with locally advanced breast cancer using quantitative ultrasound. Oncotarget, 2021, 12, 2437-2448.	1.8	8
162	Using high frequency ultrasound envelope statistics to determine scatterer number density in dilute cell solutions. , 0, , .		7

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163	Assessment of opto-mechanical behavior of biological samples by interferometry. Proceedings of SPIE, 2009, , .	0.8	7
164	Optical droplet vaporization of micron-sized perfluorocarbon droplets and their photoacoustic detection. , 2011, , .		7
165	Photoacoustic measurements of single red blood cells. , 2012, , .		7
166	Photoacoustic tissue characterization using envelope statistics and ultrasonic spectral parameters. Proceedings of SPIE, 2014, , .	0.8	7
167	Optical coherence tomography spectral analysis for detecting apoptosisin vitroandin vivo. Journal of Biomedical Optics, 2015, 20, 126001.	2.6	7
168	Classification of biological cells using a sound wave based flow cytometer. Proceedings of SPIE, 2016, , .	0.8	7
169	Triplex micron-resolution acoustic, photoacoustic, and optical transmission microscopy via photoacoustic radiometry. Optics Express, 2018, 26, 22315.	3.4	7
170	Real-Time Control of Nanoparticle-Mediated Thermal Therapy Using Photoacoustic Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 2188-2194.	4.2	7
171	A Theoretical Model for RF Ablation of Kidney Tissue and Its Experimental Validation. Lecture Notes in Computer Science, 2010, , 119-129.	1.3	7
172	Photoacoustic simulations of microvascular bleeding: spectral analysis and its application for monitoring vascular-targeted treatments. Journal of Biomedical Optics, 2019, 24, 1.	2.6	7
173	High-frequency ultrasound analysis of post-mitotic arrest cell death. Oncoscience, 2016, 3, 109-121.	2.2	7
174	The role of primary and secondary delays in the effective resonance frequency of acoustically interacting microbubbles. Ultrasonics Sonochemistry, 2022, 86, 106033.	8.2	7
175	<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
176	Attenuation mapping for monitoring thermal therapy using ultrasound transmission imaging. , 2004, 2004, 1329-32.		6
177	Visualization of apoptotic cells using scanning acoustic microscopy and high frequency ultrasound. , 2005, , .		6
178	Quantifying the ultrasonic properties of cells during apoptosis using time resolved acoustic microscopy. , 2009, , .		6
179	Optoacoustic detection of thermal lesions. Proceedings of SPIE, 2009, , .	0.8	6
180	Development of a microfluidic device with integrated high frequency ultrasound probe for particle characterization. , 2014, , .		6

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181	Nonlinear model of acoustical attenuation and speed of sound in a bubbly medium. , 2015, , .		6
182	Investigation of the nonlinear propagation of ultrasound through a bubbly medium including multiple scattering and bubble-bubble interaction: Theory and experiment. , 2017, , .		6
183	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, .	2.6	6
184	Probing Different Biological Length Scales Using Photoacoustics: From 1 To 1000 MHz. , 2014, , 1-18.		6
185	Optoacoustic imaging of an animal model of prostate cancer. , 2010, , .		5
186	Ultrasonic characterization of extra-cellular matrix in decellularized murine kidney and liver. , 2015, , .		5
187	Exact solution for a photoacoustic wave from a finite-length cylindrical source. Journal of the Acoustical Society of America, 2015, 137, 1675-1682.	1.1	5
188	Spatial interference encoding patterns based photoacoustic microscopy. Optics Communications, 2017, 401, 23-28.	2.1	5
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