Michael C Kolios

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Use of photoacoustic imaging for monitoring vascular disrupting cancer treatments. Journal of Biophotonics, 2023, 16, e202000209.	2.3	12
2	Pharmacokinetic Modeling of the Second-Wave Phenomenon in Nanobubble-Based Contrast-Enhanced Ultrasound. IEEE Transactions on Biomedical Engineering, 2023, 70, 42-54.	4.2	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, .	2.6	0
4	The role of primary and secondary delays in the effective resonance frequency of acoustically interacting microbubbles. Ultrasonics Sonochemistry, 2022, 86, 106033.	8.2	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.	1.8	8
6	Dosage-controlled intracellular delivery mediated by acoustofluidics for lab on a chip applications. Lab on A Chip, 2021, 21, 1788-1797.	6.0	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.	5.2	42
8	Opto-Acoustic Image Reconstruction and Motion Tracking Using Convex Optimization. IEEE Transactions on Computational Imaging, 2021, 7, 1161-1175.	4.4	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, .	4.0	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, .	2.6	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.	2.9	9
12	Toward Precisely Controllable Acoustic Response of Shell-Stabilized Nanobubbles: High Yield and Narrow Dispersity. ACS Nano, 2021, 15, 4901-4915.	14.6	43
13	Nonlinear dynamics and bifurcation structure of ultrasonically excited lipid coated microbubbles. Ultrasonics Sonochemistry, 2021, 72, 105405.	8.2	28
14	A tutorial in photoacoustic microscopy and tomography signal processing methods. Journal of Applied Physics, 2021, 129, .	2.5	17
15	On the threshold of 1/2 order subharmonic emissions in the oscillations of ultrasonically excited bubbles. Ultrasonics, 2021, 112, 106363.	3.9	13
16	Microfluidic Generation of Monodisperse Nanobubbles by Selective Gas Dissolution. Small, 2021, 17, e2100345.	10.0	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.	3.0	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.	3.0	0

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19	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
20	An image-based flow cytometric approach to the assessment of the nucleus-to-cytoplasm ratio. PLoS ONE, 2021, 16, e0253439.	2.5	4
21	Experimental and numerical evidence of intensified non-linearity at the microscale: The lipid coated acoustic bubble. Physics of Fluids, 2021, 33, .	4.0	19
22	In vivo spectroscopic photoacoustic imaging and laserâ€induced nanoparticle vaporization for antiâ€HER2 breast cancer. Journal of Biophotonics, 2021, 14, e202100099.	2.3	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. Oncotarget, 2021, 12, 1354-1365.	1.8	10
24	Noninvasive calibrated tissue temperature estimation using backscattered energy of acoustic harmonics. Ultrasonics, 2021, 114, 106406.	3.9	10
25	Real-Time Control of Nanoparticle-Mediated Thermal Therapy Using Photoacoustic Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 2188-2194.	4.2	7
26	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
27	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
28	An ultrafast enzyme-free acoustic technique for detaching adhered cells in microchannels. RSC Advances, 2021, 11, 32824-32829.	3.6	1
29	Biomedical nanobubbles and opportunities for microfluidics. RSC Advances, 2021, 11, 32750-32774.	3.6	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. Oncotarget, 2021, 12, 2437-2448.	1.8	8
32	Mean Scatterer Spacing Estimation Using Cepstrum-Based Continuous Wavelet Transform. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1118-1126.	3.0	5
33	Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells. Small, 2020, 16, 1903788.	10.0	12
34	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
35	Emerging use of machine learning and advanced technologies to assess red cell quality. Transfusion and Apheresis Science, 2020, 59, 103020.	1.0	5
36	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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37	Photoacoustic imaging biomarkers for monitoring biophysical changes during nanobubble-mediated radiation treatment. Photoacoustics, 2020, 20, 100201.	7.8	16
38	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
39	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
40	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
41	Fluence-matching technique using photoacoustic radiofrequency spectra for improving estimates of oxygen saturation. Photoacoustics, 2020, 19, 100182.	7.8	11
42	Acoustic Microflows: Dancing with the Cells: Acoustic Microflows Generated by Oscillating Cells (Small 9/2020). Small, 2020, 16, 2070045.	10.0	0
43	Theoretical and Experimental Gas Volume Quantification of Micro- and Nanobubble Ultrasound Contrast Agents. Pharmaceutics, 2020, 12, 208.	4.5	27
44	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
45	Critical corrections to models of nonlinear power dissipation of ultrasonically excited bubbles. Ultrasonics Sonochemistry, 2020, 66, 105089.	8.2	22
46	Large-Pitch Synthetic Transmit Aperture Imaging: A Feasibility Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1317-1331.	3.0	4
47	Pickering Bubbles as Dual-Modality Ultrasound and Photoacoustic Contrast Agents. ACS Applied Materials & amp; Interfaces, 2020, 12, 22308-22317.	8.0	19
48	Expansion-mediated breakup of bubbles and droplets in microfluidics. Physical Review Fluids, 2020, 5, .	2.5	10
49	Photoacoustic imaging of kidney fibrosis for assessing pretransplant organ quality. JCI Insight, 2020, 5, .	5.0	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. PLoS ONE, 2020, 15, e0244965.	2.5	18
52	Feasibility of photoacoustic imaging for the nonâ€invasive quality management of stored blood bags. Vox Sanguinis, 2019, 114, 701-710.	1.5	4
53	Contrast enhanced ultrasound imaging by nature-inspired ultrastable echogenic nanobubbles. Nanoscale, 2019, 11, 15647-15658.	5.6	86
54	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

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55	Collective nonlinear behavior of interacting polydisperse microbubble clusters. Ultrasonics Sonochemistry, 2019, 58, 104708.	8.2	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. International Journal of Hyperthermia, 2019, 36, 963-973.	2.5	8
58	Sink or float? Characterization of shell-stabilized bulk nanobubbles using a resonant mass measurement technique. Nanoscale, 2019, 11, 851-855.	5.6	62
59	PMMA-Fe ₃ O ₄ for internal mechanical support and magnetic thermal ablation of bone tumors. Theranostics, 2019, 9, 4192-4207.	10.0	62
60	Near-infrared absorbing nanoemulsions as nonlinear ultrasound contrast agents for cancer theranostics. Journal of Molecular Liquids, 2019, 287, 110848.	4.9	25
61	Optical and photoacoustic radiofrequency spectroscopic analysis for detecting red blood cell death. Journal of Biophotonics, 2019, 12, e201800431.	2.3	8
62	An artificially engineered "tumor bio-magnet―for collecting blood-circulating nanoparticles and magnetic hyperthermia. Biomaterials Science, 2019, 7, 1815-1824.	5.4	10
63	Photoacoustic F-Mode imaging for scale specific contrast in biological systems. Communications Physics, 2019, 2, .	5.3	18
64	Sizing biological cells using a microfluidic acoustic flow cytometer. Scientific Reports, 2019, 9, 4775.	3.3	18
65	Insights into photoacoustic speckle and applications in tumor characterization. Photoacoustics, 2019, 14, 37-48.	7.8	25
66	Simultaneous acoustic and photoacoustic microfluidic flow cytometry for label-free analysis. Scientific Reports, 2019, 9, 1585.	3.3	30
67	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
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. Journal of Biomedical Optics, 2019, 24, 1.	2.6	25

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73	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
74	Experimental design and numerical investigation of a photoacoustic sensor for a low-power, continuous-wave, laser-based frequency-domain photoacoustic microscopy. Journal of Biomedical Optics, 2019, 24, 1.	2.6	5
75	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
76	Dynamic light scattering optical coherence tomography to probe motion of subcellular scatterers. Journal of Biomedical Optics, 2019, 24, 1.	2.6	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. Optical Materials Express, 2019, 9, 4532.	3.0	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. Journal of Biophotonics, 2018, 11, e201700300.	2.3	14
84	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
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. IEEE Signal Processing Letters, 2018, 25, 1840-1844.	3.6	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		0

Pulsatile Blood Flow. , 2018, , .

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91	Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging. Nanotechnology, 2018, 29, 505103.	2.6	29
92	Simultaneous ultra-high frequency photoacoustic microscopy and photoacoustic radiometry of zebrafish larvae in vivo. Photoacoustics, 2018, 12, 14-21.	7.8	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. Optics Express, 2018, 26, 22315.	3.4	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. Biomedical Physics and Engineering Express, 2017, 3, 015017.	1.2	16
99	Honey, I shrunk the bubbles: microfluidic vacuum shrinkage of lipid-stabilized microbubbles. Soft Matter, 2017, 13, 4011-4016.	2.7	14
100	Noninvasive tissue temperature estimation using nonlinear ultrasound harmonics. AIP Conference Proceedings, 2017, , .	0.4	1
101	Stable microfluidic flow focusing using hydrostatics. Biomicrofluidics, 2017, 11, 034104.	2.4	30
102	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
103	Low-power noncontact photoacoustic microscope for bioimaging applications. Journal of Biomedical Optics, 2017, 22, 046001.	2.6	16
104	Spatial interference encoding patterns based photoacoustic microscopy. Optics Communications, 2017, 401, 23-28.	2.1	5
105	Photoacoustic signal characterization of cancer treatment response: Correlation with changes in tumor oxygenation. Photoacoustics, 2017, 5, 25-35.	7.8	44
106	Ultrasound spectral analysis of photoacoustic signals from red blood cell populations at different optical wavelengths. Proceedings of SPIE, 2017, , .	0.8	1
107	Quantitative photoacoustic assessment of red blood cell aggregation under pulsatile blood flow: experimental and theoretical approaches. Proceedings of SPIE, 2017, , .	0.8	3
108	Chemotherapy-Response Monitoring of Breast Cancer Patients Using Quantitative Ultrasound-Based Intra-Tumour Heterogeneities. Scientific Reports, 2017, 7, 10352.	3.3	44

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109	Ultrasound Imaging of Apoptosis: Spectroscopic Detection of DNA-Damage Effects In Vivo. Methods in Molecular Biology, 2017, 1644, 41-60.	0.9	0
110	High frequency ultrasound imaging and simulations of sea urchin oocytes. Journal of the Acoustical Society of America, 2017, 142, 268-275.	1.1	2
111	Shrinking microbubbles with microfluidics: mathematical modelling to control microbubble sizes. Soft Matter, 2017, 13, 8796-8806.	2.7	10
112	Monitoring Quantitative Ultrasound Parameter Changes in a Cell Pellet Model of Cell Starvation. Biophysical Journal, 2017, 112, 2634-2640.	0.5	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, , .

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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.	1.8	4
132	Ultrasound Imaging of DNA-Damage Effects in Live Cultured Cells and in Brain Tissue. Methods in Molecular Biology, 2017, 1644, 23-40.	0.9	1
133	Multispectral photoacoustic bioimaging using low power continuous wave lasers. , 2017, , .		Ο
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, , .		Ο
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.	2.2	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.	2.9	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.	2.9	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.	3.0	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, , .		Ο
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.	1.1	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.	0.5	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. NPG Asia Materials, 2016, 8, e313-e313.	7.9	30
155	Synthesis of Stable Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Langmuir, 2016, 32, 10870-10880.	3.5	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.	2.1	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, , .		Ο
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, , .		Ο
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.	7.8	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.	2.9	126
171	Photoacoustic Imaging of Cancer Treatment Response: Early Detection of Therapeutic Effect from Thermosensitive Liposomes. PLoS ONE, 2016, 11, e0165345.	2.5	30
172	High-frequency ultrasound analysis of post-mitotic arrest cell death. Oncoscience, 2016, 3, 109-121.	2.2	7
173	Phase Change Nanoemulsions for Cancer Therapy and Imaging. Biophysical Journal, 2015, 108, 332a-333a.	O.5	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.	3.7	26
176	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
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.	3.7	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.	3.0	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.	2.6	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.	5.2	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.	2.5	14
193	Properties of cells through life and death – an acoustic microscopy investigation. Cell Cycle, 2015, 14, 2891-2898.	2.6	20
194	High-Frequency Acoustic Impedance Imaging of Cancer Cells. Ultrasound in Medicine and Biology, 2015, 41, 2700-2713.	1.5	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.	1.1	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

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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.	3.0	37
202	Effective scatterer size estimates in HT-29 spheroids at 55 MHz and 80 MHz. , 2014, , .		0
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