Paul A Dayton

List of Publications by Year
in descending order

287 papers	12,303 citations	18436 62 h-index	32761 100 g-index
297 all docs	297 docs citations	297 times ranked	6587 citing authors

#	Article	IF	Citations
1	Characterization of the Ultrasound Localization Microscopy Resolution Limit in the Presence of Image Degradation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 124-134.	1.7	6
2	Transcranial Neuromodulation Array With Imaging Aperture for Simultaneous Multifocus Stimulation in Nonhuman Primates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 261-272.	1.7	9
3	Nanoparticle Delivery of miR-122 Inhibits Colorectal Cancer Liver Metastasis. Cancer Research, 2022, 82, 105-113.	0.4	21
4	Acoustic Angiography: Superharmonic Contrast-Enhanced Ultrasound Imaging for Noninvasive Visualization of Microvasculature. Methods in Molecular Biology, 2022, 2393, 641-655.	0.4	0
5	An Analysis of Sonothrombolysis and Cavitation for Retracted and Unretracted Clots Using Microbubbles Versus Low-Boiling-Point Nanodroplets. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 711-719.	1.7	7
6	Validation of a combined ultrasound and bioluminescence imaging system with magnetic resonance imaging in orthotopic pancreatic murine tumors. Scientific Reports, 2022, 12, 102.	1.6	5
7	Development of a Robotic Shear Wave Elastography System for Noninvasive Staging of Liver Disease in Murine Models. Hepatology Communications, 2022, 6, 1827-1839.	2.0	5
8	Effects of Injection Volume and Route of Administration on Dolutegravir In Situ Forming Implant Pharmacokinetics. Pharmaceutics, 2022, 14, 615.	2.0	7
9	Polyvinyl Alcohol Cryogels for Acoustic Characterization of Phase-Change Contrast Agents. Ultrasound in Medicine and Biology, 2022, 48, 954-960.	0.7	3
10	A Handheld Imaging Probe for Acoustic Angiography With an Ultrawideband Capacitive Micromachined Ultrasonic Transducer (CMUT) Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2318-2330.	1.7	8
11	Imaging methods to evaluate tumor microenvironment factors affecting nanoparticle drug delivery and antitumor response. , 2021, 4, 382-413.		5
12	Dual-Frequency Intravascular Sonothrombolysis: An In Vitro Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3599-3607.	1.7	23
13	Characterization of an Array-Based Dual-Frequency Transducer for Superharmonic Contrast Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2419-2431.	1.7	11
14	Ultrasound Contrast Agents. , 2021, , 639-653.		3
15	Nanodroplet-mediated catheter-directed sonothrombolysis of retracted blood clots. Microsystems and Nanoengineering, 2021, 7, 3.	3.4	41
16	Acoustic holograms for directing arbitrary cavitation patterns. Applied Physics Letters, 2021, 118, .	1.5	23
17	Magnetic Resonance Detection of Gas Microbubbles via HyperCEST: A Path Toward Dual Modality Contrast Agent. ChemPhysChem, 2021, 22, 1219-1228.	1.0	5
18	Applications of sub-micron low-boiling point phase change contrast agents for ultrasound imaging and therapy. Current Opinion in Colloid and Interface Science, 2021, 56, 101498.	3.4	13

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19	Implementation of a Novel 288-Element Dual-Frequency Array for Acoustic Angiography: In Vitro and In Vivo Characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2657-2666.	1.7	8
20	Magneto-sonothrombolysis with combination of magnetic microbubbles and nanodroplets. Ultrasonics, 2021, 116, 106487.	2.1	24
21	In Vivo Porcine Aged Deep Vein Thrombosis Model for Testing Ultrasound-based Thrombolysis Techniques. Ultrasound in Medicine and Biology, 2021, 47, 3447-3457.	0.7	4
22	A multi-pillar piezoelectric stack transducer for nanodroplet mediated intravascular sonothrombolysis. Ultrasonics, 2021, 116, 106520.	2.1	23
23	Effect of Acoustic Parameters and Microbubble Concentration on the Likelihood of Encapsulated Microbubble Coalescence. Ultrasound in Medicine and Biology, 2021, 47, 2980-2989.	0.7	2
24	Safety Evaluation of a Forward-Viewing Intravascular Transducer for Sonothrombolysis: An in Vitro and ex Vivo Study. Ultrasound in Medicine and Biology, 2021, 47, 3231-3239.	0.7	15
25	Harnessing ultrasound-stimulated phase change contrast agents to improve antibiotic efficacy against methicillin-resistant Staphylococcus aureus biofilms. Biofilm, 2021, 3, 100049.	1.5	17
26	Genome-wide cancer-specific chromatin accessibility patterns derived from archival processed xenograft tumors. Genome Research, 2021, 31, 2327-2339.	2.4	3
27	Ultrasound in decompression research: fundamentals, considerations, and future technologies. Undersea and Hyperbaric Medicine, 2021, 48, 59-72.	0.1	2
28	A fully automated method for late ventricular diastole frame selection in post-dive echocardiography without ECG gating. Undersea and Hyperbaric Medicine, 2021, 48, 73-80.	0.1	0
29	Super-Resolution Imaging Through the Human Skull. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 25-36.	1.7	39
30	Nanodroplet-Mediated Intravascular Sonothrombolysis: Cavitation Study. , 2020, , .		2
31	Focused Ultrasound for Immunomodulation of the Tumor Microenvironment. Journal of Immunology, 2020, 205, 2327-2341.	0.4	37
32	A Comparison of Sonothrombolysis in Aged Clots between Low-Boiling-Point Phase-Change Nanodroplets and Microbubbles of the Same Composition. Ultrasound in Medicine and Biology, 2020, 46, 3059-3068.	0.7	38
33	Visualization of Microvascular Angiogenesis Using Dual-Frequency Contrast-Enhanced Acoustic Angiography: A Review. Ultrasound in Medicine and Biology, 2020, 46, 2625-2635.	0.7	17
34	An Improved CMUT Structure Enabling Release and Collapse of the Plate in the Same Tx/Rx Cycle for Dual-Frequency Acoustic Angiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2291-2302.	1.7	16
35	Transient acoustic vaporization signatures unique to low boiling point phase change contrast agents enable super-resolution ultrasound imaging without spatiotemporal filtering. AIP Advances, 2020, 10, 105124.	0.6	7
36	Perspectives on high resolution microvascular imaging with contrast ultrasound. Applied Physics Letters, 2020, 116, 210501.	1.5	7

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37	Conventional dose rate spatially-fractionated radiation therapy (SFRT) treatment response and its association with dosimetric parametersâ€"A preclinical study in a Fischer 344 rat model. PLoS ONE, 2020, 15, e0229053.	1.1	23
38	Quantitative sub-resolution blood velocity estimation using ultrasound localization microscopy ex-vivo and in-vivo. Biomedical Physics and Engineering Express, 2020, 6, 035019.	0.6	9
39	Examining the Influence of Low-Dose Tissue Plasminogen Activator on Microbubble-Mediated Forward-Viewing Intravascular Sonothrombolysis. Ultrasound in Medicine and Biology, 2020, 46, 1698-1706.	0.7	19
40	Improving the heating efficiency of high intensity focused ultrasound ablation through the use of phase change nanodroplets and multifocus sonication. Physics in Medicine and Biology, 2020, 65, 205004.	1.6	3
41	Microvascular Ultrasonic Imaging of Angiogenesis Identifies Tumors in a Murine Spontaneous Breast Cancer Model. International Journal of Biomedical Imaging, 2020, 2020, 1-10.	3.0	7
42	Superharmonic Ultrasound for Motion-Independent Localization Microscopy: Applications to Microvascular Imaging From Low to High Flow Rates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 957-967.	1.7	26
43	Super-resolution Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 865-891.	0.7	253
44	Assessing Polycystic Kidney Disease in Rodents: Comparison of Robotic 3D Ultrasound and Magnetic Resonance Imaging. Kidney360, 2020, 1, 1128-1136.	0.9	1
45	An Ultra-Wideband Capacitive Micromachined Ultrasonic Transducer (CMUT) Array for Acoustic Angiography: Preliminary Results. , 2020, , .		2
46	Cavitation-Enhanced High-Pressure Pulsed Sonothrombolysis with Perfluorocarbon Nanodroplets versus Microbubbles in Contracted and Uncontracted Clots. , 2020, , .		1
47	Ultrasound Measurement of Vascular Density to Evaluate Response to Anti-Angiogenic Therapy in Renal Cell Carcinoma. IEEE Transactions on Biomedical Engineering, 2019, 66, 873-880.	2.5	16
48	The biological response of rodent kidneys to low frequency, full volume diagnostic contrast-enhanced ultrasound imaging: Pilot data. Data in Brief, 2019, 25, 104170.	0.5	0
49	On Command Drug Delivery via Cellâ€Conveyed Phototherapeutics. Small, 2019, 15, e1901442.	5.2	16
50	Candle-Soot Carbon Nanoparticles in Photoacoustics: Advantages and Challenges for Laser Ultrasound Transmitters. IEEE Nanotechnology Magazine, 2019, 13, 13-28.	0.9	32
51	Precision mouse models with expanded tropism for human pathogens. Nature Biotechnology, 2019, 37, 1163-1173.	9.4	76
52	Ultra-long-acting tunable biodegradable and removable controlled release implants for drug delivery. Nature Communications, 2019, 10, 4324.	5.8	92
53	Effect of Hydrostatic Pressure, Boundary Constraints and Viscosity on the Vaporization Threshold of Low-Boiling-Point Phase-Change Contrast Agents. Ultrasound in Medicine and Biology, 2019, 45, 968-979.	0.7	19
54	Histological and blood chemistry examination of the rodent kidney after exposure to flash-replenishment ultrasound contrast imaging. Ultrasonics, 2019, 98, 1-6.	2.1	5

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55	Assessment of the Superharmonic Response of Microbubble Contrast Agents for Acoustic Angiography as a Function of Microbubble Parameters. Ultrasound in Medicine and Biology, 2019, 45, 2515-2524.	0.7	16
56	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. Ultrasound in Medicine and Biology, 2019, 45, 2525-2539.	0.7	22
57	Ultrasound-Stimulated Phase-Change Contrast Agents for Transepithelial Delivery of Macromolecules, Toward Gastrointestinal Drug Delivery. Ultrasound in Medicine and Biology, 2019, 45, 1762-1776.	0.7	17
58	Ultrasound multiple scattering with microbubbles can differentiate between tumor and healthy tissue in vivo. Physics in Medicine and Biology, 2019, 64, 115022.	1.6	6
59	Dynamic assessment of dual-frequency microbubble-mediated sonothrombolysis in vitro. Journal of Applied Physics, 2019, 125, .	1.1	10
60	Super Harmonic Ultrasound Localization Microscopy. , 2019, , .		0
61	Designing Oxygen Microbubbles for Treating Tumor Hypoxia. , 2019, , .		1
62	Enhanced Depth of Field Acoustic Angiography with a Prototype 288-element Dual-Frequency Array. , 2019, , .		1
63	Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography. , 2019, , .		4
64	Accelerated blood clearance of targeted ultrasound contrast reduced molecular imaging signal intensity: Secreted Frizzled Related Protein-2 signal remained significantly higher than signal from either Vascular Endothelial Growth Factor Receptor-2 or alphaVbeta3 integrin. , 2019, 2019, 407-410.		0
65	High-Framerate Dynamic Contrast-Enhanced Ultrasound Imaging of Rat Kidney Perfusion. , 2019, , .		2
66	Using Low-Boiling Point Phase Change Contrast Agent Activation Signals for Super Resolution Ultrasound Localization Microscopy. , 2019, , .		2
67	Vaporization Detection Imaging: A Technique for Imaging Low-Boiling-Point Phase-Change Contrast Agents with a High Depth of Penetration and Contrast-to-Tissue Ratio. Ultrasound in Medicine and Biology, 2019, 45, 192-207.	0.7	17
68	In Vivo Molecular Imaging Using Low-Boiling-Point Phase-Change Contrast Agents: A Proof of Concept Study. Ultrasound in Medicine and Biology, 2019, 45, 177-191.	0.7	18
69	On the Relationship between Dynamic Contrast-Enhanced Ultrasound Parameters and the Underlying Vascular Architecture Extracted from Acoustic Angiography. Ultrasound in Medicine and Biology, 2019, 45, 539-548.	0.7	11
70	Imaging with ultrasound contrast agents: current status and future. Abdominal Radiology, 2018, 43, 762-772.	1.0	151
71	Cavitation Enhancement Increases the Efficiency and Consistency of Chromatin Fragmentation from Fixed Cells for Downstream Quantitative Applications. Biochemistry, 2018, 57, 2756-2761.	1.2	11
72	Accelerated Clearance of Ultrasound Contrast Agents Containing Polyethylene Glycol is Associated with the Generation of Anti-Polyethylene Glycol Antibodies. Ultrasound in Medicine and Biology, 2018, 44, 1266-1280.	0.7	39

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73	Variability in circulating gas emboli after a same scuba diving exposure. European Journal of Applied Physiology, 2018, 118, 1255-1264.	1.2	27
74	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets: vaporization efficiency dictates large molecular delivery. Physics in Medicine and Biology, 2018, 63, 035002.	1.6	42
75	In Vivo Assessment of the Potential for Renal Bio-Effects from the Vaporization of Perfluorocarbon Phase-Change Contrast Agents. Ultrasound in Medicine and Biology, 2018, 44, 368-376.	0.7	20
76	Real-time ultrasound angiography using superharmonic dual-frequency (2.25 MHz/30 MHz) cylindrical array: In vitro study. Ultrasonics, 2018, 82, 298-303.	2.1	12
77	Human Transcranial Super Resolution Imaging. , 2018, , .		0
78	Optimization of Phase-Change Contrast Agents for Targeting MDA-MB-231 Breast Cancer Cells. Ultrasound in Medicine and Biology, 2018, 44, 2728-2738.	0.7	15
79	A Dual-Frequency Colinear Array for Acoustic Angiography in Prostate Cancer Evaluation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2418-2428.	1.7	12
80	Early Assessment of Tumor Response to Radiation Therapy using High-Resolution Quantitative Microvascular Ultrasound Imaging. Theranostics, 2018, 8, 156-168.	4.6	37
81	Oxygen microbubbles improve radiotherapy tumor control in a rat fibrosarcoma model â€“ A preliminary study. PLoS ONE, 2018, 13, e0195667.	1.1	37
82	A new preclinical ultrasound platform for widefield 3D imaging of rodents. Review of Scientific Instruments, 2018, 89, 075107.	0.6	12
83	Adaptive Multifocus Beamforming for Contrast-Enhanced-Super-Resolution Ultrasound Imaging in Deep Tissue. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2255-2263.	1.7	11
84	Ultrasound Molecular Imaging of VEGFR-2 in Clear-Cell Renal Cell Carcinoma Tracks Disease Response to Antiangiogenic and Notch-Inhibition Therapy. Theranostics, 2018, 8, 141-155.	4.6	33
85	Acoustic Behavior of a Reactivated, Commercially Available Ultrasound Contrast Agent. Journal of the American Society of Echocardiography, 2017, 30, 189-197.	1.2	24
86	Microbubble mediated dual-frequency high intensity focused ultrasound thrombolysis: An In vitro study. Applied Physics Letters, 2017, 110, .	1.5	67
87	Contrast Enhanced Superharmonic Imaging for Acoustic Angiography Using Reduced Form-Factor Lateral Mode Transmitters for Intravascular and Intracavity Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 311-319.	1.7	23
88	Dual-frequency transducer with a wideband PVDF receiver for contrast-enhanced, adjustable harmonic imaging. , 2017, , .		2
89	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. Scientific Reports, 2017, 7, 3454.	1.6	65
90	First-in-Human Study of Acoustic Angiography in the Breast and Peripheral Vasculature. Ultrasound in Medicine and Biology, 2017, 43, 2939-2946.	0.7	17

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91	Dual-Frequency Piezoelectric Endoscopic Transducer for Imaging Vascular Invasion in Pancreatic Cancer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1078-1086.	1.7	25
92	An evaluation of the sonoporation potential of low-boiling point phase-change ultrasound contrast agents in vitro. Journal of Therapeutic Ultrasound, 2017, 5, 7.	2.2	39
93	Optimizing Sensitivity of Ultrasound Contrast-Enhanced Super-Resolution Imaging by Tailoring Size Distribution of Microbubble Contrast Agent. Ultrasound in Medicine and Biology, 2017, 43, 2488-2493.	0.7	44
94	High Resolution Ultrasound Superharmonic Perfusion Imaging: In Vivo Feasibility and Quantification of Dynamic Contrast-Enhanced Acoustic Angiography. Annals of Biomedical Engineering, 2017, 45, 939-948.	1.3	23
95	Methods of Generating Submicrometer Phase-Shift Perfluorocarbon Droplets for Applications in Medical Ultrasonography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 252-263.	1.7	62
96	Optimizing Acoustic Activation of Phase Change Contrast Agents With the Activation Pressure Matching Method: A Review. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 264-272.	1.7	16
97	Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. Molecular Imaging and Biology, 2017, 19, 194-202.	1.3	21
98	A Pilot Clinical Study in Characterization of Malignant Renal-cell Carcinoma Subtype with Contrast-enhanced Ultrasound. Ultrasonic Imaging, 2017, 39, 126-136.	1.4	25
99	Contrast-enhanced ultrasound (CEUS) in patients with chronic kidney disease (CKD). , 2017, , .		1
100	Notice of Removal: In vivo bioeffects from phase change and microbubble contrast agents in the rodent kidney: Short term and long-term effects after excitation with a range of mechanical indices. , 2017, , .		0
101	Micromachined 1â€“3 composite dual frequency IVUS array for contrast enhanced intravascular ultrasound imaging. , 2017, , .		0
102	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		0
103	Notice of Removal: Accelerated clearance of ultrasound contrast agents containing polyethylene glycol (PEG) is associated with a PEG-specific immune response. , 2017, , .		0
104	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		1
105	Micromachined 1â€“3 composite dual frequency IVUS array for contrast enhanced intravascular ultasound imaging. , 2017, , .		1
106	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets. , 2017, , .		0
107	In-vitro delivery of BLM into resistant cancer cell line using sonoporation with low-boiling point phase change ultrasound contrast agents. , 2017, , .		0
108	Notice of Removal: Oxygen microbubbles improve tumor control after radiotherapy in a rat fibrosarcoma model. , 2017, , .		1

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109	Enhancing Nanoparticle Accumulation and Retention in Desmoplastic Tumors via Vascular Disruption for Internal Radiation Therapy. Theranostics, 2017, 7, 253-269.	4.6	50
110	Notice of Removal: Adaptation of the acoustic angiography technique for use with a capacitive micromachined ultrasound transducer (CMUT). , 2017, , .		0
111	Notice of Removal: Designing targeted ultrasound contrast for molecular imaging of secreted frizzled related protein-2 (SFRP2) without biotin-avidin linkages. , 2017, , .		0
112	Contrast-enhanced ultrasound (CEUS) in patients with chronic kidney disease (CKD). , 2017, , .		0
113	In-vitro delivery of BLM into resistant cancer cell line using sonoporation with low-boiling point phase change ultrasound contrast agents. , 2017, , .		2
114	Adaptive beamforming contrast enhanced super resolution imaging for improved sensitivity and resolution in deep tissues. , 2017, , .		0
115	Development of forward-looking ultrasound transducers for microbubble-aided intravascular ultrasound-enhanced thrombolysis. , 2017, , .		2
116	Adaptive beamforming contrast enhanced super resolution imaging for improved sensitivity and resolution in deep tissues. , 2017, , .		0
117	3-D Ultrasound Localization Microscopy for Identifying Microvascular Morphology Features of Tumor Angiogenesis at a Resolution Beyond the Diffraction Limit of Conventional Ultrasound. Theranostics, 2017, 7, 196-204.	4.6	202
118	FEASIBILITY AND SAFETY OF CONTRASTâ€ENHANCED ULTRASOUND IN THE DISTAL LIMB OF SIX HORSES. Veterinary Radiology and Ultrasound, 2016, 57, 282-289.	0.4	9
119	Molecular acoustic angiography: Comparison of contrast-to-tissue ratio with multi-pulse techniques and imaging multiple targeted microbubbles. , 2016, , .		0
120	A dual-frequency co-linear array for prostate acoustic angiography. , 2016, , .		1
121	A dual-frequency endoscopic transducer for imaging vascular invasion in pancreatic cancer. , 2016, , .		3
122	Characterizing volumes of kidney segments in Streptozotocin induced diabetic rat model utilizing 4D contrast-enhanced ultrasound. , 2016, , .		0
123	Intracellular delivery and ultrasonic activation of folate receptor-targeted phase-change contrast agents in breast cancer cells in vitro. Journal of Controlled Release, 2016, 243, 69-77.	4.8	60
124	The application of acoustic angiography to assess the progression of angiogenesis in a spontaneous mouse model of breast cancer. , 2016, , .		2
125	Experimental verification of theoretical equations for acoustic radiation force on compressible spherical particles in traveling waves. Physical Review E, 2016, 93, 053109.	0.8	25
126	Laser-generated-focused ultrasound transducers for microbubble-mediated, dual-excitation sonothrombolysis. , 2016, , .		14

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127	Super resolution contrast ultrasound imaging: Analysis of imaging resolution and application to imaging tumor angiogenesis. , 2016, , .		14
128	In-vivo quantitative analysis of the angiogenic microvasculature in tumor-bearing rats using multiple scattering. Proceedings of Meetings on Acoustics, 2016, , .	0.3	0
129	Adaptive windowing in mechanically-steered intravascular ultrasound imaging: Ex vivo and in vivo studies with contrast enhancement. , 2016, , .		0
130	Wideband acoustic activation and detection of droplet vaporization events using a capacitive micromachined ultrasonic transducer. Journal of the Acoustical Society of America, 2016, 139, 3193-3198.	0.5	11
131	Acoustic angiography: a new high frequency contrast ultrasound technique for biomedical imaging. Proceedings of SPIE, 2016, , .	0.8	0
132	Adaptive windowing in contrast-enhanced intravascular ultrasound imaging. Ultrasonics, 2016, 70, 123-135.	2.1	18
133	ExÂVivo Porcine Arterial and Chorioallantoic Membrane Acoustic Angiography Using Dual-Frequency Intravascular Ultrasound Probes. Ultrasound in Medicine and Biology, 2016, 42, 2294-2307.	0.7	20
134	Targeted Transthoracic Acoustic Activation of Systemically Administered Nanodroplets to Detect Myocardial Perfusion Abnormalities. Circulation: Cardiovascular Imaging, 2016, 9, .	1.3	24
135	Management of Indeterminate Cystic Kidney Lesions: Review of Contrast-enhanced Ultrasound as a Diagnostic Tool. Urology, 2016, 87, 1-10.	0.5	23
136	Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. Ultrasound in Medicine and Biology, 2016, 42, 769-781.	0.7	43
137	An Integrated System for Superharmonic Contrast-Enhanced Ultrasound Imaging: Design and Intravascular Phantom Imaging Study. IEEE Transactions on Biomedical Engineering, 2016, 63, 1933-1943.	2.5	8
138	The â€œFingerprintâ€•of Cancer Extends Beyond Solid Tumor Boundaries: Assessment With a Novel Ultrasound Imaging Approach. IEEE Transactions on Biomedical Engineering, 2016, 63, 1082-1086.	2.5	30
139	A Dual Frequency IVUS Transducer With a Lateral Mode Transmitter for Contrast Enhanced Intravascular Ultrasound Imaging. , 2015, , .		1
140	High-intensity focused ultrasound ablation enhancement in vivo via phase-shift nanodroplets compared to microbubbles. Journal of Therapeutic Ultrasound, 2015, 3, 7.	2.2	77
141	Cavitation Enhancing Nanodroplets Mediate Efficient DNA Fragmentation in a Bench Top Ultrasonic Water Bath. PLoS ONE, 2015, 10, e0133014.	1.1	30
142	Therapeutic gas delivery via microbubbles and liposomes. Journal of Controlled Release, 2015, 209, 139-149.	4.8	100
143	Optimization of Contrast-to-Tissue Ratio Through Pulse Windowing in Dual-Frequency â€œAcoustic Angiographyâ€•Imaging. Ultrasound in Medicine and Biology, 2015, 41, 1884-1895.	0.7	25
144	Quantification of Microvascular Tortuosity during Tumor Evolution Using Acoustic Angiography. Ultrasound in Medicine and Biology, 2015, 41, 1896-1904.	0.7	104

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145	A 3 MHz/18 MHz dual-layer co-linear array for transrectal acoustic angiography. , 2015, , .		14
146	Dual-frequency intravascular ultrasound imaging of microbubble contrast agents: Ex vivo and in vivo demonstration. , 2015, , .		2
147	Dual-frequency IVUS array for contrast enhanced intravascular ultrasound imaging. , 2015, , .		4
148	Molecular acoustic angiography: Demonstration of in vivo feasibility for high resolution superharmonic ultrasound molecular imaging. , 2015, , .		1
149	Dual-frequency super harmonic imaging piezoelectric transducers for transrectal ultrasound. Proceedings of SPIE, 2015, , .	0.8	1
150	Dual-frequency acoustic droplet vaporization detection for medical imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1623-1633.	1.7	19
151	Contrast-Enhanced Ultrasound Imaging and inÂVivo Circulatory Kinetics with Low-Boiling-Point Nanoscale Phase-Change Perfluorocarbon Agents. Ultrasound in Medicine and Biology, 2015, 41, 814-831.	0.7	100
152	Design factors of intravascular dual frequency transducers for super-harmonic contrast imaging and acoustic angiography. Physics in Medicine and Biology, 2015, 60, 3441-3457.	1.6	60
153	On the Relationship Between Microbubble Fragmentation, Deflation and Broadband Superharmonic Signal Production. Ultrasound in Medicine and Biology, 2015, 41, 1711-1725.	0.7	55
154	Optimization of multi-pulse sequences for nonlinear contrast agent imaging using a cMUT array. Physics in Medicine and Biology, 2015, 60, 3111-3127.	1.6	3
155	Phantom evaluation of stacked-type dual-frequency 1â€“3 composite transducers: A feasibility study on intracavitary acoustic angiography. Ultrasonics, 2015, 63, 7-15.	2.1	37
156	Dual frequency transducers for intravascular ultrasound super-harmonic imaging and acoustic angiography. , 2014, , .		12
157	Dynamics of volatile phase-change contrast agents: Theoretical model and experimental measurements. , 2014, , .		0
158	A preliminary engineering design of intravascular dual-frequency transducers for contrast-enhanced acoustic angiography and molecular imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 870-880.	1.7	44
159	Dual-Frequency Piezoelectric Transducers for Contrast Enhanced Ultrasound Imaging. Sensors, 2014, 14, 20825-20842.	2.1	78
160	Vaporization dynamics of volatile perfluorocarbon droplets: A theoretical model and in vitro validation. Medical Physics, 2014, 41, 102901.	1.6	51
161	A configurable dual-frequency transmit/receive system for acoustic angiography imaging. , 2014, , .		5
162	Optimization of contrast-to-tissue ratio and role of bubble destruction in dual-frequency contrast-specific “acoustic angiography” imaging. , 2014, , .		3

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163	In vivo quantification of image enhancement and circulation kinetics for phase change perfluorocarbon agents using custom pulse sequences. , 2014, , .		0
164	Improving the Performance of Phase-Change Perfluorocarbon Droplets for Medical Ultrasonography: Current Progress, Challenges, and Prospects. Scientifica, 2014, 2014, 1-24.	0.6	54
165	Nucleation and Growth Synthesis of Siloxane Gels to Form Functional, Monodisperse, and Acoustically Programmable Particles. Angewandte Chemie - International Edition, 2014, 53, 8070-8073.	7.2	23
166	Phase change events of volatile liquid perfluorocarbon contrast agents produce unique acoustic signatures. Physics in Medicine and Biology, 2014, 59, 379-401.	1.6	71
167	Evaluation of bias voltage modulation sequence for nonlinear contrast agent imaging using a capacitive micromachined ultrasonic transducer array. Physics in Medicine and Biology, 2014, 59, 4879-4896.	1.6	16
168	Vascular channels formed by subpopulations of PECAM1+ melanoma cells. Nature Communications, 2014, 5, 5200.	5.8	55
169	A preliminary engineering design of intravascular dual-frequency transducers for contrast-enhanced acoustic angiography and molecular imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 870-880.	1.7	81
170	Acoustic characterization of contrast-to-tissue ratio and axial resolution for dual-frequency contrast-specific acoustic angiography imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1668-1687.	1.7	58
171	Pulse sequences for uniform perfluorocarbon droplet vaporization and ultrasound imaging. Ultrasonics, 2014, 54, 2024-2033.	2.1	21
172	Parallel generation of uniform fine droplets at hundreds of kilohertz in a flow-focusing module. Biomicrofluidics, 2013, 7, 34112.	1.2	55
173	Functional ultrasound imaging for assessment of extracellular matrix scaffolds used for liver organoid formation. Biomaterials, 2013, 34, 9341-9351.	5.7	37
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