

Paul A Dayton

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5151753/paul-a-dayton-publications-by-citations.pdf>

Version: 2024-04-18

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

9,249
citations

56
h-index

87
g-index

297
ext. papers

11,038
ext. citations

4.6
avg, IF

6.36
L-index

#	Paper	IF	Citations
240	Experimental and theoretical evaluation of microbubble behavior: effect of transmitted phase and bubble size. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000 , 47, 1494-509	3.2	280
239	The magnitude of radiation force on ultrasound contrast agents. <i>Journal of the Acoustical Society of America</i> , 2002 , 112, 2183-92	2.2	228
238	Optical and acoustical observations of the effects of ultrasound on contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1999 , 46, 220-32	3.2	219
237	Ultrasound radiation force enables targeted deposition of model drug carriers loaded on microbubbles. <i>Journal of Controlled Release</i> , 2006 , 111, 128-34	11.7	218
236	Formulation and acoustic studies of a new phase-shift agent for diagnostic and therapeutic ultrasound. <i>Langmuir</i> , 2011 , 27, 10412-20	4	212
235	Influence of lipid shell physicochemical properties on ultrasound-induced microbubble destruction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1992-2002	3.2	212
234	On-chip generation of microbubbles as a practical technology for manufacturing contrast agents for ultrasonic imaging. <i>Lab on A Chip</i> , 2007 , 7, 463-8	7.2	209
233	Noninvasive imaging of inflammation by ultrasound detection of phagocytosed microbubbles. <i>Circulation</i> , 2000 , 102, 531-8	16.7	209
232	Targeted imaging using ultrasound. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 362-77	5.6	192
231	Acoustically-active microbubbles conjugated to liposomes: characterization of a proposed drug delivery vehicle. <i>Journal of Controlled Release</i> , 2007 , 118, 275-84	11.7	184
230	Design of ultrasonically-activatable nanoparticles using low boiling point perfluorocarbons. <i>Biomaterials</i> , 2012 , 33, 3262-9	15.6	167
229	Decafluorobutane as a phase-change contrast agent for low-energy extravascular ultrasonic imaging. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1518-30	3.5	164
228	Phase-change contrast agents for imaging and therapy. <i>Current Pharmaceutical Design</i> , 2012 , 18, 2152-65	3	160
227	Optical observation of lipid- and polymer-shelled ultrasound microbubble contrast agents. <i>Applied Physics Letters</i> , 2004 , 84, 631-633	3.4	159
226	Direct observations of ultrasound microbubble contrast agent interaction with the microvessel wall. <i>Journal of the Acoustical Society of America</i> , 2007 , 122, 1191-200	2.2	153
225	Radiation-force assisted targeting facilitates ultrasonic molecular imaging. <i>Molecular Imaging</i> , 2004 , 3, 135-48	3.7	129
224	Optical and acoustical dynamics of microbubble contrast agents inside neutrophils. <i>Biophysical Journal</i> , 2001 , 80, 1547-56	2.9	117

223	Optical observation of contrast agent destruction. <i>Applied Physics Letters</i> , 2000 , 77, 1056	3.4	113
222	Lateral phase separation in lipid-coated microbubbles. <i>Langmuir</i> , 2006 , 22, 4291-7	4	109
221	Molecular ultrasound imaging using microbubble contrast agents. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 5124-42	2.8	107
220	3-D Ultrasound Localization Microscopy for Identifying Microvascular Morphology Features of Tumor Angiogenesis at a Resolution Beyond the Diffraction Limit of Conventional Ultrasound. <i>Theranostics</i> , 2017 , 7, 196-204	12.1	103
219	Acoustic angiography: a new imaging modality for assessing microvasculature architecture. <i>International Journal of Biomedical Imaging</i> , 2013 , 2013, 936593	5.2	99
218	Ultrasonic analysis of peptide- and antibody-targeted microbubble contrast agents for molecular imaging of alphavbeta3-expressing cells. <i>Molecular Imaging</i> , 2004 , 3, 125-34	3.7	98
217	A stimulus-responsive contrast agent for ultrasound molecular imaging. <i>Biomaterials</i> , 2008 , 29, 597-606	15.6	94
216	Maintaining monodispersity in a microbubble population formed by flow-focusing. <i>Langmuir</i> , 2008 , 24, 1745-9	4	93
215	Current status and prospects for microbubbles in ultrasound theranostics. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013 , 5, 329-45	9.2	91
214	Modeling of nonlinear viscous stress in encapsulating shells of lipid-coated contrast agent microbubbles. <i>Ultrasonics</i> , 2009 , 49, 269-75	3.5	91
213	Long-term stability by lipid coating monodisperse microbubbles formed by a flow-focusing device. <i>Langmuir</i> , 2006 , 22, 9487-90	4	89
212	Imaging with ultrasound contrast agents: current status and future. <i>Abdominal Radiology</i> , 2018 , 43, 762-772		88
211	Application of Ultrasound to Selectively Localize Nanodroplets for Targeted Imaging and Therapy. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00019	3.7	88
210	Phase-change nanoparticles using highly volatile perfluorocarbons: toward a platform for extravascular ultrasound imaging. <i>Theranostics</i> , 2012 , 2, 1185-98	12.1	86
209	Tailoring the Size Distribution of Ultrasound Contrast Agents: Possible Method for Improving Sensitivity in Molecular Imaging. <i>Molecular Imaging</i> , 2007 , 6, 7290.2007.00034	3.7	86
208	Advances in Molecular Imaging with Ultrasound. <i>Molecular Imaging</i> , 2010 , 9, 7290.2010.00022	3.7	84
207	Super-resolution Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 865-891	3.5	83
206	Targeted drug delivery with focused ultrasound-induced blood-brain barrier opening using acoustically-activated nanodroplets. <i>Journal of Controlled Release</i> , 2013 , 172, 795-804	11.7	82

205	High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer: in vitro and in vivo studies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1772-81	3.2	79
204	Improving Sensitivity in Ultrasound Molecular Imaging by Tailoring Contrast Agent Size Distribution: In Vivo Studies. <i>Molecular Imaging</i> , 2010 , 9, 7290.2010.00005	3.7	78
203	Imaging of angiogenesis using Cadence contrast pulse sequencing and targeted contrast agents. <i>Contrast Media and Molecular Imaging</i> , 2008 , 3, 9-18	3.2	78
202	Mapping microvasculature with acoustic angiography yields quantifiable differences between healthy and tumor-bearing tissue volumes in a rodent model. <i>Radiology</i> , 2012 , 264, 733-40	20.5	77
201	Contrast-enhanced ultrasound imaging and in vivo circulatory kinetics with low-boiling-point nanoscale phase-change perfluorocarbon agents. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 814-31	3.5	76
200	Therapeutic gas delivery via microbubbles and liposomes. <i>Journal of Controlled Release</i> , 2015 , 209, 139-49	4.7	75
199	Quantification of Microvascular Tortuosity during Tumor Evolution Using Acoustic Angiography. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1896-904	3.5	75
198	Quantitative volumetric perfusion mapping of the microvasculature using contrast ultrasound. <i>Investigative Radiology</i> , 2010 , 45, 669-74	10.1	74
197	Effect of anesthesia carrier gas on in vivo circulation times of ultrasound microbubble contrast agents in rats. <i>Contrast Media and Molecular Imaging</i> , 2011 , 6, 126-31	3.2	71
196	Maxwell rheological model for lipid-shelled ultrasound microbubble contrast agents. <i>Journal of the Acoustical Society of America</i> , 2007 , 121, 3331-40	2.2	68
195	Asymmetric oscillation of adherent targeted ultrasound contrast agents. <i>Applied Physics Letters</i> , 2005 , 87, 1341031-1341033	3.4	68
194	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 870-880	3.2	65
193	Phase-transition thresholds and vaporization phenomena for ultrasound phase-change nanoemulsions assessed via high-speed optical microscopy. <i>Physics in Medicine and Biology</i> , 2013 , 58, 4513-34	3.8	62
192	Phase-shift perfluorocarbon agents enhance high intensity focused ultrasound thermal delivery with reduced near-field heating. <i>Journal of the Acoustical Society of America</i> , 2013 , 134, 1473-82	2.2	62
191	Theranostic oxygen delivery using ultrasound and microbubbles. <i>Theranostics</i> , 2012 , 2, 1174-84	12.1	61
190	Ultrasound Radiation Force Modulates Ligand Availability on Targeted Contrast Agents. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00016	3.7	60
189	Controllable microfluidic synthesis of multiphase drug-carrying lipospheres for site-targeted therapy. <i>Biotechnology Progress</i> , 2009 , 25, 938-45	2.8	59
188	Improving sensitivity in ultrasound molecular imaging by tailoring contrast agent size distribution: in vivo studies. <i>Molecular Imaging</i> , 2010 , 9, 87-95	3.7	58

187	Microbubble oscillation in tubes with diameters of 12, 25, and 195 microns. <i>Applied Physics Letters</i> , 2006 , 88, 033902	3.4	57
186	High-intensity focused ultrasound ablation enhancement in vivo via phase-shift nanodroplets compared to microbubbles. <i>Journal of Therapeutic Ultrasound</i> , 2015 , 3, 7		56
185	Resonance frequencies of lipid-shelled microbubbles in the regime of nonlinear oscillations. <i>Ultrasonics</i> , 2009 , 49, 263-8	3.5	56
184	Precision mouse models with expanded tropism for human pathogens. <i>Nature Biotechnology</i> , 2019 , 37, 1163-1173	44.5	54
183	Phase change events of volatile liquid perfluorocarbon contrast agents produce unique acoustic signatures. <i>Physics in Medicine and Biology</i> , 2014 , 59, 379-401	3.8	54
182	Dual-frequency piezoelectric transducers for contrast enhanced ultrasound imaging. <i>Sensors</i> , 2014 , 14, 20825-42	3.8	53
181	Needle size and injection rate impact microbubble contrast agent population. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1182-5	3.5	51
180	Vascular channels formed by subpopulations of PECAM1+ melanoma cells. <i>Nature Communications</i> , 2014 , 5, 5200	17.4	48
179	Parallel generation of uniform fine droplets at hundreds of kilohertz in a flow-focusing module. <i>Biomicrofluidics</i> , 2013 , 7, 34112	3.2	47
178	Modeling of the acoustic response from contrast agent microbubbles near a rigid wall. <i>Ultrasonics</i> , 2009 , 49, 195-201	3.5	47
177	Ultrasound-driven microbubble oscillation and translation within small phantom vessels. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1978-87	3.5	47
176	Acoustic response from adherent targeted contrast agents. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, EL63-9	2.2	47
175	Methods of Generating Submicrometer Phase-Shift Perfluorocarbon Droplets for Applications in Medical Ultrasonography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 252-263	3.2	46
174	High-speed, clinical-scale microfluidic generation of stable phase-change droplets for gas embolotherapy. <i>Lab on A Chip</i> , 2011 , 11, 3990-8	7.2	44
173	Tailoring the size distribution of ultrasound contrast agents: possible method for improving sensitivity in molecular imaging. <i>Molecular Imaging</i> , 2007 , 6, 384-92	3.7	44
172	Design factors of intravascular dual frequency transducers for super-harmonic contrast imaging and acoustic angiography. <i>Physics in Medicine and Biology</i> , 2015 , 60, 3441-57	3.8	43
171	Toward ultrasound molecular imaging with phase-change contrast agents: an in vitro proof of principle. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 893-902	3.5	43
170	Precision manufacture of phase-change perfluorocarbon droplets using microfluidics. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1952-7	3.5	43

169	Microbubble tunneling in gel phantoms. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, EL183-9	2.2	43
168	Microbubble mediated dual-frequency high intensity focused ultrasound thrombolysis: An In vitro study. <i>Applied Physics Letters</i> , 2017 , 110, 023703	3.4	42
167	Acoustic characterization of contrast-to-tissue ratio and axial resolution for dual-frequency contrast-specific acoustic angiography imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1668-87	3.2	42
166	Effect of coupled oscillations on microbubble behavior. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 1678-90	2.2	42
165	Ultra-long-acting tunable biodegradable and removable controlled release implants for drug delivery. <i>Nature Communications</i> , 2019 , 10, 4324	17.4	41
164	Improving the performance of phase-change perfluorocarbon droplets for medical ultrasonography: current progress, challenges, and prospects. <i>Scientifica</i> , 2014 , 2014, 579684	2.6	40
163	Intracellular delivery and ultrasonic activation of folate receptor-targeted phase-change contrast agents in breast cancer cells in vitro. <i>Journal of Controlled Release</i> , 2016 , 243, 69-77	11.7	40
162	Flow-focusing regimes for accelerated production of monodisperse drug-loadable microbubbles toward clinical-scale applications. <i>Lab on A Chip</i> , 2013 , 13, 4816-26	7.2	39
161	Spatio-temporal dynamics of an encapsulated gas bubble in an ultrasound field. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, 661-669	2.2	39
160	On the relationship between microbubble fragmentation, deflation and broadband superharmonic signal production. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1711-25	3.5	38
159	Enhancing Nanoparticle Accumulation and Retention in Desmoplastic Tumors via Vascular Disruption for Internal Radiation Therapy. <i>Theranostics</i> , 2017 , 7, 253-269	12.1	37
158	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. <i>Scientific Reports</i> , 2017 , 7, 3454	4.9	36
157	Direct video-microscopic observation of the dynamic effects of medical ultrasound on ultrasound contrast microspheres. <i>Investigative Radiology</i> , 1998 , 33, 863-70	10.1	36
156	Vaporization dynamics of volatile perfluorocarbon droplets: a theoretical model and in vitro validation. <i>Medical Physics</i> , 2014 , 41, 102901	4.4	35
155	Acoustic responses of monodisperse lipid-encapsulated microbubble contrast agents produced by flow focusing. <i>Bubble Science, Engineering & Technology</i> , 2010 , 2, 33-40		34
154	Microfluidic fabrication of stable gas-filled microcapsules for acoustic contrast enhancement. <i>Langmuir</i> , 2013 , 29, 12352-7	4	33
153	Nanoparticle delivery enhancement with acoustically activated microbubbles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 65-77	3.2	33
152	Validation of dynamic contrast-enhanced ultrasound in rodent kidneys as an absolute quantitative method for measuring blood perfusion. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 900-8	3.5	33

151	Ultrasound assessment of angiogenesis in a matrigel model in rats. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 673-81	3.5	33
150	Microfluidic generation of acoustically active nanodroplets. <i>Small</i> , 2012 , 8, 1876-9	11	32
149	Ultrasound radiation force modulates ligand availability on targeted contrast agents. <i>Molecular Imaging</i> , 2006 , 5, 139-47	3.7	32
148	An in vivo validation of the application of acoustic radiation force to enhance the diagnostic utility of molecular imaging using 3-d ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 651-60	3.5	31
147	Accelerated Clearance of Ultrasound Contrast Agents Containing Polyethylene Glycol is Associated with the Generation of Anti-Polyethylene Glycol Antibodies. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 1266-1280	3.5	30
146	Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 769-81	3.5	30
145	Ultrasound Molecular Imaging of VEGFR-2 in Clear-Cell Renal Cell Carcinoma Tracks Disease Response to Antiangiogenic and Notch-Inhibition Therapy. <i>Theranostics</i> , 2018 , 8, 141-155	12.1	29
144	An evaluation of the sonoporation potential of low-boiling point phase-change ultrasound contrast agents in vitro. <i>Journal of Therapeutic Ultrasound</i> , 2017 , 5, 7		29
143	Functional ultrasound imaging for assessment of extracellular matrix scaffolds used for liver organoid formation. <i>Biomaterials</i> , 2013 , 34, 9341-51	15.6	28
142	A preliminary engineering design of intravascular dual-frequency transducers for contrast-enhanced acoustic angiography and molecular imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 870-80	3.2	28
141	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets: vaporization efficiency dictates large molecular delivery. <i>Physics in Medicine and Biology</i> , 2018 , 63, 035002	3.8	27
140	Assessment of Molecular Imaging of Angiogenesis with Three-Dimensional Ultrasonography. <i>Molecular Imaging</i> , 2011 , 10, 7290.2011.00015	3.7	27
139	Assessment of molecular imaging of angiogenesis with three-dimensional ultrasonography. <i>Molecular Imaging</i> , 2011 , 10, 460-8	3.7	27
138	Early Assessment of Tumor Response to Radiation Therapy using High-Resolution Quantitative Microvascular Ultrasound Imaging. <i>Theranostics</i> , 2018 , 8, 156-168	12.1	26
137	Optimizing Sensitivity of Ultrasound Contrast-Enhanced Super-Resolution Imaging by Tailoring Size Distribution of Microbubble Contrast Agent. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2488-2493	3.5	25
136	The "Fingerprint" of Cancer Extends Beyond Solid Tumor Boundaries: Assessment With a Novel Ultrasound Imaging Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1082-6	5	24
135	Phantom evaluation of stacked-type dual-frequency 1-3 composite transducers: A feasibility study on intracavitary acoustic angiography. <i>Ultrasonics</i> , 2015 , 63, 7-15	3.5	24
134	In Vivo Demonstration of Cancer Molecular Imaging with Ultrasound Radiation Force and Buried-Ligand Microbubbles. <i>Molecular Imaging</i> , 2013 , 12, 7290.2013.00052	3.7	24

133	A comparative evaluation of ultrasound molecular imaging, perfusion imaging, and volume measurements in evaluating response to therapy in patient-derived xenografts. <i>Technology in Cancer Research and Treatment</i> , 2013 , 12, 311-21	2.7	24
132	Motion corrected cadence CPS ultrasound for quantifying response to vasoactive drugs in a rat kidney model. <i>Urology</i> , 2009 , 74, 675-81	1.6	23
131	Scaled-Up Production of Monodisperse, Dual Layer Microbubbles Using Multi-Array Microfluidic Module for Medical Imaging and Drug Delivery. <i>Bubble Science, Engineering & Technology</i> , 2012 , 4, 12-20		23
130	Microbubbles in Imaging: Applications Beyond Ultrasound. <i>Bubble Science, Engineering & Technology</i> , 2010 , 2, 3-8		22
129	Oxygen microbubbles improve radiotherapy tumor control in a rat fibrosarcoma model - A preliminary study. <i>PLoS ONE</i> , 2018 , 13, e0195667	3.7	21
128	Nucleation and growth synthesis of siloxane gels to form functional, monodisperse, and acoustically programmable particles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8070-3	16.4	21
127	Targeted Transthoracic Acoustic Activation of Systemically Administered Nanodroplets to Detect Myocardial Perfusion Abnormalities. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	20
126	Management of Indeterminate Cystic Kidney Lesions: Review of Contrast-enhanced Ultrasound as a Diagnostic Tool. <i>Urology</i> , 2016 , 87, 1-10	1.6	20
125	A Pilot Clinical Study in Characterization of Malignant Renal-cell Carcinoma Subtype with Contrast-enhanced Ultrasound. <i>Ultrasonic Imaging</i> , 2017 , 39, 126-136	1.9	20
124	Candle Soot Carbon Nanoparticles in Photoacoustics: Advantages and Challenges for Laser Ultrasound Transmitters. <i>IEEE Nanotechnology Magazine</i> , 2019 , 13, 13-28	1.7	19
123	Pulse sequences for uniform perfluorocarbon droplet vaporization and ultrasound imaging. <i>Ultrasonics</i> , 2014 , 54, 2024-33	3.5	19
122	Changes in lipid-encapsulated microbubble population during continuous infusion and methods to maintain consistency. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1748-55	3.5	19
121	Contrast Enhanced Superharmonic Imaging for Acoustic Angiography Using Reduced Form-Factor Lateral Mode Transmitters for Intravascular and Intracavity Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 311-319	3.2	18
120	Variability in circulating gas emboli after a same scuba diving exposure. <i>European Journal of Applied Physiology</i> , 2018 , 118, 1255-1264	3.4	18
119	Experimental verification of theoretical equations for acoustic radiation force on compressible spherical particles in traveling waves. <i>Physical Review E</i> , 2016 , 93, 053109	2.4	18
118	Cavitation Enhancing Nanodroplets Mediate Efficient DNA Fragmentation in a Bench Top Ultrasonic Water Bath. <i>PLoS ONE</i> , 2015 , 10, e0133014	3.7	18
117	Observation of contrast agent response to chirp insonation with a simultaneous optical-acoustical system. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 1130-7	3.2	18
116	Dual-Frequency Piezoelectric Endoscopic Transducer for Imaging Vascular Invasion in Pancreatic Cancer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 1078-1086	3.2	17

115	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2525-2539	3.5	16
114	Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. <i>Molecular Imaging and Biology</i> , 2017 , 19, 194-202	3.8	16
113	Optimization of Contrast-to-Tissue Ratio Through Pulse Windowing in Dual-Frequency "Acoustic Angiography" Imaging. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1884-95	3.5	16
112	Super-Resolution Imaging Through the Human Skull. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 25-36	3.2	16
111	Acoustic Behavior of a Reactivated, Commercially Available Ultrasound Contrast Agent. <i>Journal of the American Society of Echocardiography</i> , 2017 , 30, 189-197	5.8	15
110	Ex Vivo Porcine Arterial and Chorioallantoic Membrane Acoustic Angiography Using Dual-Frequency Intravascular Ultrasound Probes. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2294-307	3.5	15
109	Experimental validation of displacement underestimation in ARFI ultrasound. <i>Ultrasonic Imaging</i> , 2013 , 35, 196-213	1.9	15
108	Versatile horizontal force probe for mechanical tests on pipette-held cells, particles, and membrane capsules. <i>Biophysical Journal</i> , 2009 , 96, 1218-31	2.9	15
107	First-in-Human Study of Acoustic Angiography in the Breast and Peripheral Vasculature. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2939-2946	3.5	14
106	Superharmonic Ultrasound for Motion-Independent Localization Microscopy: Applications to Microvascular Imaging From Low to High Flow Rates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 957-967	3.2	14
105	In Vivo Assessment of the Potential for Renal Bio-Effects from the Vaporization of Perfluorocarbon Phase-Change Contrast Agents. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 368-376	3.5	14
104	Evaluation of bias voltage modulation sequence for nonlinear contrast agent imaging using a capacitive micromachined ultrasonic transducer array. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4879-96	3.8	14
103	An in vivo evaluation of the effect of repeated administration and clearance of targeted contrast agents on molecular imaging signal enhancement. <i>Theranostics</i> , 2013 , 3, 93-8	12.1	14
102	Effects of body positioning on swallowing and esophageal transit in healthy dogs. <i>Journal of Veterinary Internal Medicine</i> , 2009 , 23, 801-5	3.1	14
101	A Comparison of Sonothrombolysis in Aged Clots between Low-Boiling-Point Phase-Change Nanodroplets and Microbubbles of the Same Composition. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 3059-3068	3.5	14
100	In Vivo Molecular Imaging Using Low-Boiling-Point Phase-Change Contrast Agents: A Proof of Concept Study. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 177-191	3.5	14
99	Nanodroplet-mediated catheter-directed sonothrombolysis of retracted blood clots. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 3	7.7	14
98	Dual-frequency acoustic droplet vaporization detection for medical imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 1623-33	3.2	13

97	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. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 192-207	3.5	13
96	Ultrasound Measurement of Vascular Density to Evaluate Response to Anti-Angiogenic Therapy in Renal Cell Carcinoma. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 873-880	5	12
95	High Resolution Ultrasound Superharmonic Perfusion Imaging: In Vivo Feasibility and Quantification of Dynamic Contrast-Enhanced Acoustic Angiography. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 939-948	4.7	12
94	Optimizing Acoustic Activation of Phase Change Contrast Agents With the Activation Pressure Matching Method: A Review. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 264-272	3.2	12
93	Optical tracking of acoustic radiation force impulse-induced dynamics in a tissue-mimicking phantom. <i>Journal of the Acoustical Society of America</i> , 2009 , 126, 2733-45	2.2	12
92	Optimization of Phase-Change Contrast Agents for Targeting MDA-MB-231 Breast Cancer Cells. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 2728-2738	3.5	12
91	On Command Drug Delivery via Cell-Conveyed Phototherapeutics. <i>Small</i> , 2019 , 15, e1901442	11	11
90	Hybrid dual frequency transducer and Scanhead for micro-ultrasound imaging 2009 ,		11
89	Adaptive windowing in contrast-enhanced intravascular ultrasound imaging. <i>Ultrasonics</i> , 2016 , 70, 123-35.5	3.5	10
88	A 3 MHz/18 MHz dual-layer co-linear array for transrectal acoustic angiography 2015 ,		10
87	Effect of Hydrostatic Pressure, Boundary Constraints and Viscosity on the Vaporization Threshold of Low-Boiling-Point Phase-Change Contrast Agents. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 968-979	3.5	9
86	Assessment of the Superharmonic Response of Microbubble Contrast Agents for Acoustic Angiography as a Function of Microbubble Parameters. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2515-2524	3.5	9
85	Ultrasound-Stimulated Phase-Change Contrast Agents for Transepithelial Delivery of Macromolecules, Toward Gastrointestinal Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1762-1776	3.5	9
84	Wideband acoustic activation and detection of droplet vaporization events using a capacitive micromachined ultrasonic transducer. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, 3193	2.2	9
83	Dual frequency transducers for intravascular ultrasound super-harmonic imaging and acoustic angiography 2014 ,		9
82	Ultrasound-mediated therapies using oil and perfluorocarbon-filled nanodroplets. <i>Drug Development Research</i> , 2006 , 67, 42-46	5.1	9
81	Focused Ultrasound for Immunomodulation of the Tumor Microenvironment. <i>Journal of Immunology</i> , 2020 , 205, 2327-2341	5.3	9
80	On the Relationship between Dynamic Contrast-Enhanced Ultrasound Parameters and the Underlying Vascular Architecture Extracted from Acoustic Angiography. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 539-548	3.5	9

79	Cavitation Enhancement Increases the Efficiency and Consistency of Chromatin Fragmentation from Fixed Cells for Downstream Quantitative Applications. <i>Biochemistry</i> , 2018 , 57, 2756-2761	3.2	8
78	Real-time ultrasound angiography using superharmonic dual-frequency (2.25MHz/30MHz) cylindrical array: In vitro study. <i>Ultrasonics</i> , 2018 , 82, 298-303	3.5	8
77	A pilot study to assess markers of renal damage in the rodent kidney after exposure to 7 MHz ultrasound pulse sequences designed to cause microbubble translation and disruption. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 168-72	3.5	8
76	A Dual-Frequency Colinear Array for Acoustic Angiography in Prostate Cancer Evaluation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 2418-2428	3.2	8
75	Quantitative sub-resolution blood velocity estimation using ultrasound localization microscopy ex-vivo and in-vivo. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6, 035019	1.5	7
74	Super resolution contrast ultrasound imaging: Analysis of imaging resolution and application to imaging tumor angiogenesis 2016 ,		7
73	A new preclinical ultrasound platform for widefield 3D imaging of rodents. <i>Review of Scientific Instruments</i> , 2018 , 89, 075107	1.7	7
72	Adaptive Multifocus Beamforming for Contrast-Enhanced-Super-Resolution Ultrasound Imaging in Deep Tissue. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 2255-2263	3.2	7
71	FEASIBILITY AND SAFETY OF CONTRAST-ENHANCED ULTRASOUND IN THE DISTAL LIMB OF SIX HORSES. <i>Veterinary Radiology and Ultrasound</i> , 2016 , 57, 282-9	1.2	7
70	Examining the Influence of Low-Dose Tissue Plasminogen Activator on Microbubble-Mediated Forward-Viewing Intravascular Sonothrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 1698-1706	3.5	6
69	Laser-generated-focused ultrasound transducers for microbubble-mediated, dual-excitation sonothrombolysis 2016 ,		6
68	An Integrated System for Superharmonic Contrast-Enhanced Ultrasound Imaging: Design and Intravascular Phantom Imaging Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1933-1943	5	6
67	In vitro parameter optimization for spatial control of focused ultrasound ablation when using low boiling point phase-change nanoemulsions. <i>Journal of Therapeutic Ultrasound</i> , 2013 , 1, 16		6
66	An Improved CMUT Structure Enabling Release and Collapse of the Plate in the Same Tx/Rx Cycle for Dual-Frequency Acoustic Angiography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 2291-2302	3.2	6
65	Histological and blood chemistry examination of the rodent kidney after exposure to flash-replenishment ultrasound contrast imaging. <i>Ultrasonics</i> , 2019 , 98, 1-6	3.5	5
64	A configurable dual-frequency transmit/receive system for acoustic angiography imaging 2014 ,		5
63	High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer in-vitro and in-vivo studies 2009 ,		5
62	Radiation-Force Assisted Targeting Facilitates Ultrasonic Molecular Imaging. <i>Molecular Imaging</i> , 2004 , 3, 153535002004041	3.7	5

61	Visualization of Microvascular Angiogenesis Using Dual-Frequency Contrast-Enhanced Acoustic Angiography: A Review. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 2625-2635	3.5	5
60	Dynamic assessment of dual-frequency microbubble-mediated sonothrombolysis in vitro. <i>Journal of Applied Physics</i> , 2019 , 125, 084702	2.5	5
59	Harnessing ultrasound-stimulated phase change contrast agents to improve antibiotic efficacy against methicillin-resistant biofilms. <i>Biofilm</i> , 2021 , 3, 100049	5.9	5
58	Ultrasound multiple scattering with microbubbles can differentiate between tumor and healthy tissue in vivo. <i>Physics in Medicine and Biology</i> , 2019 , 64, 115022	3.8	4
57	Conventional dose rate spatially-fractionated radiation therapy (SFRT) treatment response and its association with dosimetric parameters-A preclinical study in a Fischer 344 rat model. <i>PLoS ONE</i> , 2020 , 15, e0229053	3.7	4
56	Microvascular Ultrasonic Imaging of Angiogenesis Identifies Tumors in a Murine Spontaneous Breast Cancer Model. <i>International Journal of Biomedical Imaging</i> , 2020 , 2020, 7862089	5.2	4
55	Acoustic holograms for directing arbitrary cavitation patterns. <i>Applied Physics Letters</i> , 2021 , 118, 051902	3.4	4
54	Safety Evaluation of a Forward-Viewing Intravascular Transducer for Sonothrombolysis: An in Vitro and ex Vivo Study. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 3231-3239	3.5	4
53	Optimization of multi-pulse sequences for nonlinear contrast agent imaging using a cMUT array. <i>Physics in Medicine and Biology</i> , 2015 , 60, 3111-27	3.8	3
52	Dual-frequency IVUS array for contrast enhanced intravascular ultrasound imaging 2015 ,		3
51	Optimization of contrast-to-tissue ratio and role of bubble destruction in dual-frequency contrast-specific acoustic angiography imaging 2014 ,		3
50	3-D microvessel-mimicking ultrasound phantoms produced with a scanning motion system. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 827-33	3.5	3
49	A dual-frequency endoscopic transducer for imaging vascular invasion in pancreatic cancer 2016 ,		3
48	Perspectives on high resolution microvascular imaging with contrast ultrasound. <i>Applied Physics Letters</i> , 2020 , 116, 210501	3.4	2
47	Dual-frequency intravascular ultrasound imaging of microbubble contrast agents: Ex vivo and in vivo demonstration 2015 ,		2
46	Blood vessel structural morphology derived from 3D dual-frequency ultrasound images 2010 ,		2
45	Submicron decafluorobutane phase-change contrast agents generated by microbubble condensation 2011 ,		2
44	Radiation force-enhanced targeted imaging and near real-time molecular imaging using a dual-frequency high-resolution transducer: In-vitro and in-vivo results 2009 ,		2

43	Nanoparticle delivery of miR-122 inhibits colorectal cancer liver metastasis. <i>Cancer Research</i> , 2021 ,	10.1	2
42	Transient acoustic vaporization signatures unique to low boiling point phase change contrast agents enable super-resolution ultrasound imaging without spatiotemporal filtering. <i>AIP Advances</i> , 2020 , 10, 105124	1.5	2
41	Imaging methods to evaluate tumor microenvironment factors affecting nanoparticle drug delivery and antitumor response. <i>Cancer Drug Resistance (Alhambra, Calif)</i> , 2021 , 4, 382-413	4.5	2
40	Characterization of the Ultrasound Localization Microscopy Resolution Limit in the Presence of Image Degradation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , PP,	3.2	2
39	Applications of sub-micron low-boiling point phase change contrast agents for ultrasound imaging and therapy. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 56, 101498	7.6	2
38	Implementation of a Novel 288-Element Dual-Frequency Array for Acoustic Angiography: In Vitro and In Vivo Characterization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2657-2666	3.2	2
37	Magneto-sonothrombolysis with combination of magnetic microbubbles and nanodroplets. <i>Ultrasonics</i> , 2021 , 116, 106487	3.5	2
36	Ultrasound in decompression research: fundamentals, considerations, and future technologies. <i>Undersea and Hyperbaric Medicine</i> , 2021 , 48, 59-72	0.9	2
35	Effects of Injection Volume and Route of Administration on Dolutegravir In Situ Forming Implant Pharmacokinetics.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	2
34	Dual-frequency transducer with a wideband PVDF receiver for contrast-enhanced, adjustable harmonic imaging 2017 ,		1
33	Improving the heating efficiency of high intensity focused ultrasound ablation through the use of phase change nanodroplets and multifocus sonication. <i>Physics in Medicine and Biology</i> , 2020 , 65, 205004 ^{3.8}		1
32	In-vitro delivery of BLM into resistant cancer cell line using sonoporation with low-boiling point phase change ultrasound contrast agents 2017 ,		1
31	2017 ,		1
30	The application of acoustic angiography to assess the progression of angiogenesis in a spontaneous mouse model of breast cancer 2016 ,		1
29	Contrast-enhanced ultrasound (CEUS) in patients with chronic kidney disease (CKD) 2017 ,		1
28	A Dual Frequency IVUS Transducer With a Lateral Mode Transmitter for Contrast Enhanced Intravascular Ultrasound Imaging 2015 ,		1
27	Molecular acoustic angiography: Demonstration of in vivo feasibility for high resolution superharmonic ultrasound molecular imaging 2015 ,		1
26	An in-vivo evaluation of the effects of anesthesia carrier gases on ultrasound contrast agent circulation 2009 ,		1

25	Improving the quantitative ability of contrast enhanced ultrasound perfusion imaging: effect of contrast administration rate and imaging plane orientation 2011 ,		1
24	Characterisation of polymer shelled microbubbles in wall less flow phantom using high frequency ultrasound and video microscopy. <i>Bubble Science, Engineering & Technology</i> , 2011 , 3, 73-78		1
23	Parameter space for microbubble wall interaction estimated from gel phantom 2008 ,		1
22	1F-4 Acoustic Localization of Sub-Micron Droplets for Targeted Imaging and Therapy 2006 ,		1
21	9B-4 Microbubble Oscillations in Gel Phantom and Ex Vivo Preparation Validate Proposed Mechanisms for Contrast-Based Drug Delivery. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		1
20	Assessing Polycystic Kidney Disease in Rodents: Comparison of Robotic 3D Ultrasound and Magnetic Resonance Imaging. <i>Kidney360</i> , 2020 , 1, 1126-1136	1.8	1
19	Conventional dose rate spatially-fractionated radiation therapy (SFRT) treatment response and its association with dosimetric parameters I A preclinical study in a Fisher 344 rat model		1
18	Harnessing Ultrasound-Stimulated Phase Change Contrast Agents to Improve Antibiotic Efficacy Against Methicillin-Resistant Staphylococcus aureus Biofilms		1
17	Magnetic Resonance Detection of Gas Microbubbles via HyperCEST: A Path Toward Dual Modality Contrast Agent. <i>ChemPhysChem</i> , 2021 , 22, 1219-1228	3.2	1
16	Enhanced Depth of Field Acoustic Angiography with a Prototype 288-element Dual-Frequency Array 2019 ,		1
15	Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography 2019 ,		1
14	Characterization of an Array-Based Dual-Frequency Transducer for Superharmonic Contrast Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2419-2431	3.2	1
13	A multi-pillar piezoelectric stack transducer for nanodroplet mediated intravascular sonothrombolysis. <i>Ultrasonics</i> , 2021 , 116, 106520	3.5	1
12	Dual-Frequency Intravascular Sonothrombolysis: An In Vitro Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 3599-3607	3.2	0
11	Ultrasound Contrast Agents 2021 , 639-653		0
10	In Vivo Porcine Aged Deep Vein Thrombosis Model for Testing Ultrasound-based Thrombolysis Techniques. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 3447-3457	3.5	0
9	The biological response of rodent kidneys to low frequency, full volume diagnostic contrast-enhanced ultrasound imaging: Pilot data. <i>Data in Brief</i> , 2019 , 25, 104170	1.2	
8	Nucleation and Growth Synthesis of Siloxane Gels to Form Functional, Monodisperse, and Acoustically Programmable Particles. <i>Angewandte Chemie</i> , 2014 , 126, 8208-8211	3.6	

7	Imaging tortuosity: the potential utility of acoustic angiography in cancer detection and tumor assessment. <i>Imaging in Medicine</i> , 2012 , 4, 581-583	1
6	CMR 2007: 5.01: Optimizing the size distribution of contrast agents for ultrasound imaging. <i>Contrast Media and Molecular Imaging</i> , 2007 , 2, 285-286	3.2
5	Validation of a combined ultrasound and bioluminescence imaging system with magnetic resonance imaging in orthotopic pancreatic murine tumors.. <i>Scientific Reports</i> , 2022 , 12, 102	4.9
4	Acoustic Angiography: Superharmonic Contrast-Enhanced Ultrasound Imaging for Noninvasive Visualization of Microvasculature. <i>Methods in Molecular Biology</i> , 2022 , 2393, 641-655	1.4
3	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 alphabeta integrin. <i>Ultrasonics Symposium (IUS), 2009 IEEE International</i> , 2019 , 2019, 407-410	0.8
2	Effect of Acoustic Parameters and Microbubble Concentration on the Likelihood of Encapsulated Microbubble Coalescence. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 2980-2989	3.5
1	A fully automated method for late ventricular diastole frame selection in post-dive echocardiography without ECG gating. <i>Undersea and Hyperbaric Medicine</i> , 2021 , 48, 73-80	0.9