Paul A Dayton

List of Publications by Year
in descending order

287 papers	12,303 citations	18482 62 h-index	32842 100 g-index
297 all docs	297 docs citations	297 times ranked	6587 citing authors

#	Article	IF	Citations
1	Experimental and theoretical evaluation of microbubble behavior: effect of transmitted phase and bubble size. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 1494-1509.	3.0	346
2	The magnitude of radiation force on ultrasound contrast agents. Journal of the Acoustical Society of America, 2002, 112, 2183-2192.	1.1	270
3	Formulation and Acoustic Studies of a New Phase-Shift Agent for Diagnostic and Therapeutic Ultrasound. Langmuir, 2011, 27, 10412-10420.	3.5	264
4	Optical and acoustical observations of the effects of ultrasound on contrast agents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1999, 46, 220-232.	3.0	263
5	Ultrasound radiation force enables targeted deposition of model drug carriers loaded on microbubbles. Journal of Controlled Release, 2006, 111, 128-134.	9.9	253
6	Super-resolution Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 865-891.	1.5	253
7	On-chip generation of microbubbles as a practical technology for manufacturing contrast agents for ultrasonic imaging. Lab on A Chip, 2007, 7, 463.	6.0	248
8	Influence of lipid shell physicochemical properties on ultrasound-induced microbubble destruction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1992-2002.	3.0	240
9	Targeted imaging using ultrasound. Journal of Magnetic Resonance Imaging, 2002, 16, 362-377.	3.4	237
10	Noninvasive Imaging of Inflammation by Ultrasound Detection of Phagocytosed Microbubbles. Circulation, 2000, 102, 531-538.	1.6	231
11	Design of ultrasonically-activatable nanoparticles using low boiling point perfluorocarbons. Biomaterials, 2012, 33, 3262-3269.	11.4	217
12	Acoustically-active microbubbles conjugated to liposomes: Characterization of a proposed drug delivery vehicle. Journal of Controlled Release, 2007, 118, 275-284.	9.9	216
13	Decafluorobutane as a Phase-Change Contrast Agent for Low-Energy Extravascular Ultrasonic Imaging. Ultrasound in Medicine and Biology, 2011, 37, 1518-1530.	1.5	208
14	Phase-Change Contrast Agents for Imaging and Therapy. Current Pharmaceutical Design, 2012, 18, 2152-2165.	1.9	205
15	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.	10.0	202
16	Optical observation of lipid- and polymer-shelled ultrasound microbubble contrast agents. Applied Physics Letters, 2004, 84, 631-633.	3.3	194
17	Direct observations of ultrasound microbubble contrast agent interaction with the microvessel wall. Journal of the Acoustical Society of America, 2007, 122, 1191-1200.	1.1	192
18	Radiation-Force Assisted Targeting Facilitates Ultrasonic Molecular Imaging. Molecular Imaging, 2004, 3, 135-148.	1.4	159

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19	Imaging with ultrasound contrast agents: current status and future. Abdominal Radiology, 2018, 43, 762-772.	2.1	151
20	Molecular ultrasound imaging using microbubble contrast agents. Frontiers in Bioscience - Landmark, 2007, 12, 5124.	3.0	139
21	Optical observation of contrast agent destruction. Applied Physics Letters, 2000, 77, 1056.	3.3	134
22	Optical and Acoustical Dynamics of Microbubble Contrast Agents inside Neutrophils. Biophysical Journal, 2001, 80, 1547-1556.	0.5	133
23	Acoustic Angiography: A New Imaging Modality for Assessing Microvasculature Architecture. International Journal of Biomedical Imaging, 2013, 2013, 1-9.	3.9	126
24	Targeted drug delivery with focused ultrasound-induced blood-brain barrier opening using acoustically-activated nanodroplets. Journal of Controlled Release, 2013, 172, 795-804.	9.9	121
25	Lateral Phase Separation in Lipid-Coated Microbubbles. Langmuir, 2006, 22, 4291-4297.	3.5	119
26	Current status and prospects for microbubbles in ultrasound theranostics. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2013, 5, 329-345.	6.1	115
27	Ultrasonic Analysis of Peptide- and Antibody-Targeted Microbubble Contrast Agents for Molecular Imaging of Î±_vÎ²₃-Expressing Cells. Molecular Imaging, 2004, 3, 125-134.	1.4	115
28	Phase-Change Nanoparticles Using Highly Volatile Perfluorocarbons: Toward a Platform for Extravascular Ultrasound Imaging. Theranostics, 2012, 2, 1185-1198.	10.0	114
29	Modeling of nonlinear viscous stress in encapsulating shells of lipid-coated contrast agent microbubbles. Ultrasonics, 2009, 49, 269-275.	3.9	113
30	Tailoring the Size Distribution of Ultrasound Contrast Agents: Possible Method for Improving Sensitivity in Molecular Imaging. Molecular Imaging, 2007, 6, 7290.2007.00034.	1.4	109
31	Advances in Molecular Imaging with Ultrasound. Molecular Imaging, 2010, 9, 7290.2010.00022.	1.4	108
32	Improving Sensitivity in Ultrasound Molecular Imaging by Tailoring Contrast Agent Size Distribution: In Vivo Studies. Molecular Imaging, 2010, 9, 7290.2010.00005.	1.4	107
33	Mapping Microvasculature with Acoustic Angiography Yields Quantifiable Differences between Healthy and Tumor-bearing Tissue Volumes in a Rodent Model. Radiology, 2012, 264, 733-740.	7.3	104
34	Quantification of Microvascular Tortuosity during Tumor Evolution Using Acoustic Angiography. Ultrasound in Medicine and Biology, 2015, 41, 1896-1904.	1.5	104
35	Application of Ultrasound to Selectively Localize Nanodroplets for Targeted Imaging and Therapy. Molecular Imaging, 2006, 5, 7290.2006.00019.	1.4	103
36	A stimulus-responsive contrast agent for ultrasound molecular imaging. Biomaterials, 2008, 29, 597-606.	11.4	103

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37	Maintaining Monodispersity in a Microbubble Population Formed by Flow-Focusing. Langmuir, 2008, 24, 1745-1749.	3.5	102
38	Therapeutic gas delivery via microbubbles and liposomes. Journal of Controlled Release, 2015, 209, 139-149.	9.9	100
39	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.	1.5	100
40	Long-Term Stability by Lipid Coating Monodisperse Microbubbles Formed by a Flow-Focusing Device. Langmuir, 2006, 22, 9487-9490.	3.5	99
41	High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer: In vitro and in vivo studies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1772-1781.	3.0	97
42	Effect of anesthesia carrier gas on <i>in vivo</i> circulation times of ultrasound microbubble contrast agents in rats. Contrast Media and Molecular Imaging, 2011, 6, 126-131.	0.8	94
43	Ultra-long-acting tunable biodegradable and removable controlled release implants for drug delivery. Nature Communications, 2019, 10, 4324.	12.8	92
44	Quantitative Volumetric Perfusion Mapping of the Microvasculature Using Contrast Ultrasound. Investigative Radiology, 2010, 45, 669-674.	6.2	88
45	Imaging of angiogenesis using Cadenceâ„¢ contrast pulse sequencing and targeted contrast agents. Contrast Media and Molecular Imaging, 2008, 3, 9-18.	0.8	87
46	Maxwell rheological model for lipid-shelled ultrasound microbubble contrast agents. Journal of the Acoustical Society of America, 2007, 121, 3331.	1.1	83
47	Resonance frequencies of lipid-shelled microbubbles in the regime of nonlinear oscillations. Ultrasonics, 2009, 49, 263-268.	3.9	82
48	Phase-transition thresholds and vaporization phenomena for ultrasound phase-change nanoemulsions assessed via high-speed optical microscopy. Physics in Medicine and Biology, 2013, 58, 4513-4534.	3.0	81
49	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.	3.0	81
50	Theranostic Oxygen Delivery Using Ultrasound and Microbubbles. Theranostics, 2012, 2, 1174-1184.	10.0	79
51	Dual-Frequency Piezoelectric Transducers for Contrast Enhanced Ultrasound Imaging. Sensors, 2014, 14, 20825-20842.	3.8	78
52	Asymmetric oscillation of adherent targeted ultrasound contrast agents. Applied Physics Letters, 2005, 87, 134103.	3.3	77
53	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
54	Precision mouse models with expanded tropism for human pathogens. Nature Biotechnology, 2019, 37, 1163-1173.	17.5	76

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55	Ultrasound Radiation Force Modulates Ligand Availability on Targeted Contrast Agents. Molecular Imaging, 2006, 5, 7290.2006.00016.	1.4	74
56	Phase-shift perfluorocarbon agents enhance high intensity focused ultrasound thermal delivery with reduced near-field heating. Journal of the Acoustical Society of America, 2013, 134, 1473-1482.	1.1	73
57	Microbubble oscillation in tubes with diameters of 12, 25, and 195 microns. Applied Physics Letters, 2006, 88, 033902.	3.3	71
58	Phase change events of volatile liquid perfluorocarbon contrast agents produce unique acoustic signatures. Physics in Medicine and Biology, 2014, 59, 379-401.	3.0	71
59	Controllable microfluidic synthesis of multiphase drugâ€carrying lipospheres for siteâ€targeted therapy. Biotechnology Progress, 2009, 25, 938-945.	2.6	68
60	Microbubble mediated dual-frequency high intensity focused ultrasound thrombolysis: An <i>In vitro</i> study. Applied Physics Letters, 2017, 110, .	3.3	67
61	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. Scientific Reports, 2017, 7, 3454.	3.3	65
62	Improving sensitivity in ultrasound molecular imaging by tailoring contrast agent size distribution: in vivo studies. Molecular Imaging, 2010, 9, 87-95.	1.4	64
63	Needle Size and Injection Rate Impact Microbubble Contrast Agent Population. Ultrasound in Medicine and Biology, 2008, 34, 1182-1185.	1.5	62
64	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.	3.0	62
65	Design factors of intravascular dual frequency transducers for super-harmonic contrast imaging and acoustic angiography. Physics in Medicine and Biology, 2015, 60, 3441-3457.	3.0	60
66	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.	9.9	60
67	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.	3.0	58
68	Ultrasound-Driven Microbubble Oscillation and Translation Within Small Phantom Vessels. Ultrasound in Medicine and Biology, 2007, 33, 1978-1987.	1.5	57
69	Modeling of the acoustic response from contrast agent microbubbles near a rigid wall. Ultrasonics, 2009, 49, 195-201.	3.9	56
70	Parallel generation of uniform fine droplets at hundreds of kilohertz in a flow-focusing module. Biomicrofluidics, 2013, 7, 34112.	2.4	55
71	Vascular channels formed by subpopulations of PECAM1+ melanoma cells. Nature Communications, 2014, 5, 5200.	12.8	55
72	On the Relationship Between Microbubble Fragmentation, Deflation and Broadband Superharmonic Signal Production. Ultrasound in Medicine and Biology, 2015, 41, 1711-1725.	1.5	55

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73	Microbubble tunneling in gel phantoms. Journal of the Acoustical Society of America, 2009, 125, EL183-EL189.	1.1	54
74	Improving the Performance of Phase-Change Perfluorocarbon Droplets for Medical Ultrasonography: Current Progress, Challenges, and Prospects. Scientifica, 2014, 2014, 1-24.	1.7	54
75	Acoustic response from adherent targeted contrast agents. Journal of the Acoustical Society of America, 2006, 120, EL63-EL69.	1.1	53
76	Vaporization dynamics of volatile perfluorocarbon droplets: A theoretical model and <i>in vitro</i> validation. Medical Physics, 2014, 41, 102901.	3.0	51
77	Tailoring the size distribution of ultrasound contrast agents: possible method for improving sensitivity in molecular imaging. Molecular Imaging, 2007, 6, 384-92.	1.4	51
78	Effect of coupled oscillations on microbubble behavior. Journal of the Acoustical Society of America, 2003, 114, 1678-1690.	1.1	50
79	Spatio-temporal dynamics of an encapsulated gas bubble in an ultrasound field. Journal of the Acoustical Society of America, 2006, 120, 661-669.	1.1	50
80	Enhancing Nanoparticle Accumulation and Retention in Desmoplastic Tumors via Vascular Disruption for Internal Radiation Therapy. Theranostics, 2017, 7, 253-269.	10.0	50
81	Flow-focusing regimes for accelerated production of monodisperse drug-loadable microbubbles toward clinical-scale applications. Lab on A Chip, 2013, 13, 4816.	6.0	48
82	Direct Video-Microscopic Observation of the Dynamic Effects of Medical Ultrasound on Ultrasound Contrast Microspheres. Investigative Radiology, 1998, 33, 863-870.	6.2	48
83	Precision Manufacture of Phase-Change Perfluorocarbon Droplets Using Microfluidics. Ultrasound in Medicine and Biology, 2011, 37, 1952-1957.	1.5	47
84	Toward Ultrasound Molecular Imaging With Phase-Change Contrast Agents: An InÂVitro Proof of Principle. Ultrasound in Medicine and Biology, 2013, 39, 893-902.	1.5	47
85	High-speed, clinical-scale microfluidic generation of stable phase-change droplets for gas embolotherapy. Lab on A Chip, 2011, 11, 3990.	6.0	46
86	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.	3.0	44
87	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.	1.5	44
88	Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. Ultrasound in Medicine and Biology, 2016, 42, 769-781.	1.5	43
89	Focused ultrasound-facilitated brain drug delivery using optimized nanodroplets: vaporization efficiency dictates large molecular delivery. Physics in Medicine and Biology, 2018, 63, 035002.	3.0	42
90	Validation of Dynamic Contrast-Enhanced Ultrasound in Rodent Kidneys as an Absolute Quantitative Method for Measuring Blood Perfusion. Ultrasound in Medicine and Biology, 2011, 37, 900-908.	1.5	41

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91	Nanodroplet-mediated catheter-directed sonothrombolysis of retracted blood clots. Microsystems and Nanoengineering, 2021, 7, 3.	7.0	41
92	Acoustic responses of monodisperse lipid encapsulated microbubble contrast agents produced by flow focusing. Bubble Science, Engineering & Technology, 2010, 2, 33-40.	0.2	40
93	Nanoparticle delivery enhancement with acoustically activated microbubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 65-77.	3.0	39
94	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
95	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.	1.5	39
96	Super-Resolution Imaging Through the Human Skull. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 25-36.	3.0	39
97	Assessment of Molecular Imaging of Angiogenesis with Three-Dimensional Ultrasonography. Molecular Imaging, 2011, 10, 7290.2011.00015.	1.4	38
98	An InÂVivo Validation of the Application of Acoustic Radiation Force to Enhance the Diagnostic Utility of Molecular Imaging Using 3-D Ultrasound. Ultrasound in Medicine and Biology, 2012, 38, 651-660.	1.5	38
99	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.	1.5	38
100	Ultrasound assessment of angiogenesis in a matrigel model in rats. Ultrasound in Medicine and Biology, 2006, 32, 673-681.	1.5	37
101	Functional ultrasound imaging for assessment of extracellular matrix scaffolds used for liver organoid formation. Biomaterials, 2013, 34, 9341-9351.	11.4	37
102	Microfluidic Fabrication of Stable Gas-Filled Microcapsules for Acoustic Contrast Enhancement. Langmuir, 2013, 29, 12352-12357.	3.5	37
103	Phantom evaluation of stacked-type dual-frequency 1â€“3 composite transducers: A feasibility study on intracavitary acoustic angiography. Ultrasonics, 2015, 63, 7-15.	3.9	37
104	Early Assessment of Tumor Response to Radiation Therapy using High-Resolution Quantitative Microvascular Ultrasound Imaging. Theranostics, 2018, 8, 156-168.	10.0	37
105	Oxygen microbubbles improve radiotherapy tumor control in a rat fibrosarcoma model â€“ A preliminary study. PLoS ONE, 2018, 13, e0195667.	2.5	37
106	Focused Ultrasound for Immunomodulation of the Tumor Microenvironment. Journal of Immunology, 2020, 205, 2327-2341.	0.8	37
107	Ultrasound radiation force modulates ligand availability on targeted contrast agents. Molecular Imaging, 2006, 5, 139-47.	1.4	37
108	Microfluidic Generation of Acoustically Active Nanodroplets. Small, 2012, 8, 1876-1879.	10.0	36

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109	Radiation-Force Assisted Targeting Facilitates Ultrasonic Molecular Imaging. Molecular Imaging, 2004, 3, 153535002004041.	1.4	34
110	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.	10.0	33
111	Candle-Soot Carbon Nanoparticles in Photoacoustics: Advantages and Challenges for Laser Ultrasound Transmitters. IEEE Nanotechnology Magazine, 2019, 13, 13-28.	1.3	32
112	Cavitation Enhancing Nanodroplets Mediate Efficient DNA Fragmentation in a Bench Top Ultrasonic Water Bath. PLoS ONE, 2015, 10, e0133014.	2.5	30
113	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.	4.2	30
114	Assessment of molecular imaging of angiogenesis with three-dimensional ultrasonography. Molecular Imaging, 2011, 10, 460-8.	1.4	30
115	Scaled-up production of monodisperse, dual layer microbubbles using multi-array microfluidic module for medical imaging and drug delivery. Bubble Science, Engineering & Technology, 2012, 4, 12-20.	0.2	28
116	In Vivo Demonstration of Cancer Molecular Imaging with Ultrasound Radiation Force and Buried-Ligand Microbubbles. Molecular Imaging, 2013, 12, 7290.2013.00052.	1.4	27
117	Variability in circulating gas emboli after a same scuba diving exposure. European Journal of Applied Physiology, 2018, 118, 1255-1264.	2.5	27
118	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.	3.0	26
119	A Comparative Evaluation of Ultrasound Molecular Imaging, Perfusion Imaging, and Volume Measurements in Evaluating Response to Therapy in Patient-Derived Xenografts. Technology in Cancer Research and Treatment, 2013, 12, 311-321.	1.9	25
120	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.	1.5	25
121	Experimental verification of theoretical equations for acoustic radiation force on compressible spherical particles in traveling waves. Physical Review E, 2016, 93, 053109.	2.1	25
122	Dual-Frequency Piezoelectric Endoscopic Transducer for Imaging Vascular Invasion in Pancreatic Cancer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1078-1086.	3.0	25
123	A Pilot Clinical Study in Characterization of Malignant Renal-cell Carcinoma Subtype with Contrast-enhanced Ultrasound. Ultrasonic Imaging, 2017, 39, 126-136.	2.6	25
124	Changes in Lipid-Encapsulated Microbubble Population During Continuous Infusion and Methods to Maintain Consistency. Ultrasound in Medicine and Biology, 2009, 35, 1748-1755.	1.5	24
125	Motion Corrected Cadence CPS Ultrasound for Quantifying Response to Vasoactive Drugs in a Rat Kidney Model. Urology, 2009, 74, 675-681.	1.0	24
126	Microbubbles in imaging: applications beyond ultrasound. Bubble Science, Engineering & Technology, 2010, 2, 3-8.	0.2	24

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127	Experimental Validation of Displacement Underestimation in ARFI Ultrasound. Ultrasonic Imaging, 2013, 35, 196-213.	2.6	24
128	Targeted Transthoracic Acoustic Activation of Systemically Administered Nanodroplets to Detect Myocardial Perfusion Abnormalities. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	24
129	Acoustic Behavior of a Reactivated, Commercially Available Ultrasound Contrast Agent. Journal of the American Society of Echocardiography, 2017, 30, 189-197.	2.8	24
130	Magneto-sonothrombolysis with combination of magnetic microbubbles and nanodroplets. Ultrasonics, 2021, 116, 106487.	3.9	24
131	Nucleation and Growth Synthesis of Siloxane Gels to Form Functional, Monodisperse, and Acoustically Programmable Particles. Angewandte Chemie - International Edition, 2014, 53, 8070-8073.	13.8	23
132	Management of Indeterminate Cystic Kidney Lesions: Review of Contrast-enhanced Ultrasound as a Diagnostic Tool. Urology, 2016, 87, 1-10.	1.0	23
133	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.	3.0	23
134	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.	2.5	23
135	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.	2.5	23
136	Dual-Frequency Intravascular Sonothrombolysis: An <i>In Vitro</i> Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3599-3607.	3.0	23
137	Acoustic holograms for directing arbitrary cavitation patterns. Applied Physics Letters, 2021, 118, .	3.3	23
138	A multi-pillar piezoelectric stack transducer for nanodroplet mediated intravascular sonothrombolysis. Ultrasonics, 2021, 116, 106520.	3.9	23
139	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. Ultrasound in Medicine and Biology, 2019, 45, 2525-2539.	1.5	22
140	Observation of contrast agent response to chirp insonation with a simultaneous optical-acoustical system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1130-1137.	3.0	21
141	Pulse sequences for uniform perfluorocarbon droplet vaporization and ultrasound imaging. Ultrasonics, 2014, 54, 2024-2033.	3.9	21
142	Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. Molecular Imaging and Biology, 2017, 19, 194-202.	2.6	21
143	Nanoparticle Delivery of miR-122 Inhibits Colorectal Cancer Liver Metastasis. Cancer Research, 2022, 82, 105-113.	0.9	21
144	ExÂVivo Porcine Arterial and Chorioallantoic Membrane Acoustic Angiography Using Dual-Frequency Intravascular Ultrasound Probes. Ultrasound in Medicine and Biology, 2016, 42, 2294-2307.	1.5	20

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145	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.	1.5	20
146	Effects of Body Positioning on Swallowing and Esophageal Transit in Healthy Dogs. Journal of Veterinary Internal Medicine, 2009, 23, 801-805.	1.6	19
147	Dual-frequency acoustic droplet vaporization detection for medical imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1623-1633.	3.0	19
148	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.	1.5	19
149	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.	1.5	19
150	Versatile Horizontal Force Probe for Mechanical Tests on Pipette-Held Cells, Particles, and Membrane Capsules. Biophysical Journal, 2009, 96, 1218-1231.	0.5	18
151	Adaptive windowing in contrast-enhanced intravascular ultrasound imaging. Ultrasonics, 2016, 70, 123-135.	3.9	18
152	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.	1.5	18
153	First-in-Human Study of Acoustic Angiography in the Breast and Peripheral Vasculature. Ultrasound in Medicine and Biology, 2017, 43, 2939-2946.	1.5	17
154	Ultrasound-Stimulated Phase-Change Contrast Agents for Transepithelial Delivery of Macromolecules, Toward Gastrointestinal Drug Delivery. Ultrasound in Medicine and Biology, 2019, 45, 1762-1776.	1.5	17
155	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.	1.5	17
156	Visualization of Microvascular Angiogenesis Using Dual-Frequency Contrast-Enhanced Acoustic Angiography: A Review. Ultrasound in Medicine and Biology, 2020, 46, 2625-2635.	1.5	17
157	Harnessing ultrasound-stimulated phase change contrast agents to improve antibiotic efficacy against methicillin-resistant Staphylococcus aureus biofilms. Biofilm, 2021, 3, 100049.	3.8	17
158	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.	3.0	16
159	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.	3.0	16
160	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.	4.2	16
161	On Command Drug Delivery via Cellâ€Conveyed Phototherapeutics. Small, 2019, 15, e1901442.	10.0	16
162	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.	1.5	16

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163	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.	3.0	16
164	Optimization of Phase-Change Contrast Agents for Targeting MDA-MB-231 Breast Cancer Cells. Ultrasound in Medicine and Biology, 2018, 44, 2728-2738.	1.5	15
165	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.	1.5	15
166	An In Vivo Evaluation of the Effect of Repeated Administration and Clearance of Targeted Contrast Agents on Molecular Imaging Signal Enhancement. Theranostics, 2013, 3, 93-98.	10.0	14
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