## Katherine Ferrara

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ultrasound Microbubble Contrast Agents: Fundamentals and Application to Gene and Drug Delivery. Annual Review of Biomedical Engineering, 2007, 9, 415-447.	12.3	1,089
2	Ultrasound contrast microbubbles in imaging and therapy: physical principles and engineering. Physics in Medicine and Biology, 2009, 54, R27-R57.	3.0	377
3	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
4	Mechanisms of contrast agent destruction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 232-248.	3.0	328
5	Lipid-Shelled Vehicles: Engineering for Ultrasound Molecular Imaging and Drug Delivery. Accounts of Chemical Research, 2009, 42, 881-892.	15.6	292
6	The magnitude of radiation force on ultrasound contrast agents. Journal of the Acoustical Society of America, 2002, 112, 2183-2192.	1.1	270
7	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
8	Ultrasound radiation force enables targeted deposition of model drug carriers loaded on microbubbles. Journal of Controlled Release, 2006, 111, 128-134.	9.9	253
9	Epoxy metabolites of docosahexaenoic acid (DHA) inhibit angiogenesis, tumor growth, and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6530-6535.	7.1	251
10	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
11	Targeted imaging using ultrasound. Journal of Magnetic Resonance Imaging, 2002, 16, 362-377.	3.4	237
12	Noninvasive Imaging of Inflammation by Ultrasound Detection of Phagocytosed Microbubbles. Circulation, 2000, 102, 531-538.	1.6	231
13	Driving delivery vehicles with ultrasound. Advanced Drug Delivery Reviews, 2008, 60, 1097-1102.	13.7	229
14	Acoustically-active microbubbles conjugated to liposomes: Characterization of a proposed drug delivery vehicle. Journal of Controlled Release, 2007, 118, 275-284.	9.9	216
15	The atypical mechanosensitive microRNA-712 derived from pre-ribosomal RNA induces endothelial inflammation and atherosclerosis. Nature Communications, 2013, 4, 3000.	12.8	198
16	Optical observation of lipid- and polymer-shelled ultrasound microbubble contrast agents. Applied Physics Letters, 2004, 84, 631-633.	3.3	194
17	Ultrasound Molecular Imaging of Tumor Angiogenesis With an Integrin Targeted Microbubble Contrast Agent. Investigative Radiology, 2011, 46, 215-224.	6.2	194
18	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

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19	Cardiac myocyte exosomes: stability, HSP60, and proteomics. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H954-H965.	3.2	191
20	Evaluation of tumor angiogenesis with US: Imaging, Doppler, and contrast agents. Academic Radiology, 2000, 7, 824-839.	2.5	185
21	A method for radiation-force localized drug delivery using gas-filled lipospheres. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 822-831.	3.0	179
22	Radiation-Force Assisted Targeting Facilitates Ultrasonic Molecular Imaging. Molecular Imaging, 2004, 3, 135-148.	1.4	159
23	Nondestructive subharmonic imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 883-892.	3.0	152
24	Multifunctional Nanoparticles Facilitate Molecular Targeting and miRNA Delivery to Inhibit Atherosclerosis in ApoE <sup>–/–</sup> Mice. ACS Nano, 2015, 9, 8885-8897.	14.6	150
25	Therapeutic effects of paclitaxel-containing ultrasound contrast agents. Ultrasound in Medicine and Biology, 2006, 32, 1771-1780.	1.5	148
26	Enhancement of Vascular Permeability with Low-Frequency Contrast-enhanced Ultrasound in the Chorioallantoic Membrane Model. Radiology, 2007, 243, 112-121.	7.3	140
27	Optical observation of contrast agent destruction. Applied Physics Letters, 2000, 77, 1056.	3.3	134
28	Optical and Acoustical Dynamics of Microbubble Contrast Agents inside Neutrophils. Biophysical Journal, 2001, 80, 1547-1556.	0.5	133
29	DNA and Polylysine Adsorption and Multilayer Construction onto Cationic Lipid-Coated Microbubbles. Langmuir, 2007, 23, 9401-9408.	3.5	127
30	Targeted imaging using ultrasound contrast agents. IEEE Engineering in Medicine and Biology Magazine, 2004, 23, 18-29.	0.8	122
31	Acoustic response of compliable microvessels containing ultrasound contrast agents. Physics in Medicine and Biology, 2006, 51, 5065-5088.	3.0	121
32	Lateral Phase Separation in Lipid-Coated Microbubbles. Langmuir, 2006, 22, 4291-4297.	3.5	119
33	Targeting Activin Receptor-Like Kinase 1 Inhibits Angiogenesis and Tumorigenesis through a Mechanism of Action Complementary to Anti-VEGF Therapies. Cancer Research, 2011, 71, 1362-1373.	0.9	117
34	Ultrasonic Analysis of Peptide- and Antibody-Targeted Microbubble Contrast Agents for Molecular Imaging of α <sub>v</sub> β <sub>3</sub> -Expressing Cells. Molecular Imaging, 2004, 3, 125-134.	1.4	115
35	Angiogenic Response to Bioactive Glass Promotes Bone Healing in an Irradiated Calvarial Defect. Tissue Engineering - Part A, 2009, 15, 877-885.	3.1	113
36	A Novel Method to Label Preformed Liposomes with 64Cu for Positron Emission Tomography (PET) Imaging. Bioconjugate Chemistry, 2008, 19, 2577-2584.	3.6	112

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37	ï‰-3 Polyunsaturated fatty acids-derived lipid metabolites on angiogenesis, inflammation and cancer. Prostaglandins and Other Lipid Mediators, 2014, 113-115, 13-20.	1.9	112
38	Ultrasound localization microscopy to image and assess microvasculature in a rat kidney. Scientific Reports, 2017, 7, 13662.	3.3	112
39	In situ bone tissue engineering via ultrasound-mediated gene delivery to endogenous progenitor cells in mini-pigs. Science Translational Medicine, 2017, 9, .	12.4	105
40	Long-circulating liposomes radiolabeled with [18F]fluorodipalmitin ([18F]FDP). Nuclear Medicine and Biology, 2007, 34, 165-171.	0.6	104
41	A new wideband spread target maximum likelihood estimator for blood velocity estimation. I. Theory. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1991, 38, 1-16.	3.0	103
42	Dynamics and fragmentation of thick-shelled microbubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1400-1410.	3.0	103
43	Application of Ultrasound to Selectively Localize Nanodroplets for Targeted Imaging and Therapy. Molecular Imaging, 2006, 5, 7290.2006.00019.	1.4	103
44	A stimulus-responsive contrast agent for ultrasound molecular imaging. Biomaterials, 2008, 29, 597-606.	11.4	103
45	Specific penetration and accumulation of a homing peptide within atherosclerotic plaques of apolipoprotein E-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7154-7159.	7.1	102
46	Copperâ^'Doxorubicin as a Nanoparticle Cargo Retains Efficacy with Minimal Toxicity. Molecular Pharmaceutics, 2010, 7, 1948-1958.	4.6	99
47	Dynamics of therapeutic ultrasound contrast agents. Ultrasound in Medicine and Biology, 2002, 28, 805-816.	1.5	95
48	The Natural Frequency of Nonlinear Oscillation of Ultrasound Contrast Agents in Microvessels. Ultrasound in Medicine and Biology, 2007, 33, 1140-1148.	1.5	92
49	Long-Circulating 15 nm Micelles Based on Amphiphilic 3-Helix Peptide–PEG Conjugates. ACS Nano, 2012, 6, 5320-5329.	14.6	91
50	A new imaging strategy using wideband transient response of ultrasound contrast agents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1320-1329.	3.0	88
51	Imaging of angiogenesis using Cadenceâ,,¢ contrast pulse sequencing and targeted contrast agents. Contrast Media and Molecular Imaging, 2008, 3, 9-18.	0.8	87
52	Ultrasound Increases Nanoparticle Delivery by Reducing Intratumoral Pressure and Increasing Transport in Epithelial and Epithelial–Mesenchymal Transition Tumors. Cancer Research, 2012, 72, 1485-1493.	0.9	86
53	Complete regression of local cancer using temperature-sensitive liposomes combined with ultrasound-mediated hyperthermia. Journal of Controlled Release, 2013, 172, 266-273.	9.9	84
54	Dual inhibition of cyclooxygenase-2 and soluble epoxide hydrolase synergistically suppresses primary tumor growth and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11127-11132.	7.1	84

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55	Novel theranostic nanoporphyrins for photodynamic diagnosis and trimodal therapy for bladder cancer. Biomaterials, 2016, 104, 339-351.	11.4	83
56	Priming is key to effective incorporation of image-guided thermal ablation into immunotherapy protocols. JCl Insight, 2017, 2, e90521.	5.0	83
57	Multiparameter evaluation of in vivo gene delivery using ultrasound-guided, microbubble-enhanced sonoporation. Journal of Controlled Release, 2016, 223, 157-164.	9.9	82
58	CD8+ T-Cell Density Imaging with 64Cu-Labeled Cys-Diabody Informs Immunotherapy Protocols. Clinical Cancer Research, 2018, 24, 4976-4987.	7.0	79
59	Two-way magnetic resonance tuning and enhanced subtraction imaging for non-invasive and quantitative biological imaging. Nature Nanotechnology, 2020, 15, 482-490.	31.5	78
60	Color flow mapping. Ultrasound in Medicine and Biology, 1997, 23, 321-345.	1.5	77
61	Asymmetric oscillation of adherent targeted ultrasound contrast agents. Applied Physics Letters, 2005, 87, 134103.	3.3	77
62	Selective imaging of adherent targeted ultrasound contrast agents. Physics in Medicine and Biology, 2007, 52, 2055-2072.	3.0	77
63	A swept-scanning mode for estimation of blood velocity in the microvasculature. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1437-1440.	3.0	76
64	Dynamic microPET imaging of ultrasound contrast agents and lipid delivery. Journal of Controlled Release, 2008, 131, 160-166.	9.9	75
65	Ultrasound Radiation Force Modulates Ligand Availability on Targeted Contrast Agents. Molecular Imaging, 2006, 5, 7290.2006.00016.	1.4	74
66	<sup>64</sup> Cu-Labeled LyP-1-Dendrimer for PET-CT Imaging of Atherosclerotic Plaque. Bioconjugate Chemistry, 2014, 25, 231-239.	3.6	74
67	A Radio-Frequency Coupling Network for Heating of Citrate-Coated Gold Nanoparticles for Cancer Therapy: Design and Analysis. IEEE Transactions on Biomedical Engineering, 2011, 58, 2002-2012.	4.2	73
68	Microbubble oscillation in tubes with diameters of 12, 25, and 195 microns. Applied Physics Letters, 2006, 88, 033902.	3.3	71
69	A new high resolution color flow system using an eigendecomposition-based adaptive filter for clutter rejection. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1384-1399.	3.0	69
70	Contrast-enhanced US of Microcirculation of Superficially Implanted Tumors in Rats. Radiology, 2003, 229, 439-446.	7.3	66
71	Novel Method to Label Solid Lipid Nanoparticles with <sup>64</sup> Cu for Positron Emission Tomography Imaging. Bioconjugate Chemistry, 2011, 22, 808-818.	3.6	64
72	Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12674-12685.	7.1	61

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73	Insonation of Targeted Microbubbles Produces Regions of Reduced Blood Flow Within Tumor Vasculature. Investigative Radiology, 2012, 47, 398-405.	6.2	60
74	Distinct immune signatures in directly treated and distant tumors result from TLR adjuvants and focal ablation. Theranostics, 2018, 8, 3611-3628.	10.0	58
75	Ultrasound-Driven Microbubble Oscillation and Translation Within Small Phantom Vessels. Ultrasound in Medicine and Biology, 2007, 33, 1978-1987.	1.5	57
76	Short-duration-focused ultrasound stimulation of Hsp70 expression <i>in vivo</i> . Physics in Medicine and Biology, 2008, 53, 3641-3660.	3.0	57
77	Self-assembled 20-nm 64Cu-micelles enhance accumulation in rat glioblastoma. Journal of Controlled Release, 2015, 220, 51-60.	9.9	57
78	An optical and microPET assessment of thermally-sensitive liposome biodistribution in the Met-1 tumor model: Importance of formulation. Journal of Controlled Release, 2010, 143, 13-22.	9.9	56
79	Albumin modulates S1P delivery from red blood cells in perfused microvessels: mechanism of the protein effect. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1011-H1017.	3.2	55
80	Gold-Nanostar-Chitosan-Mediated Delivery of SARS-CoV-2 DNA Vaccine for Respiratory Mucosal Immunization: Development and Proof-of-Principle. ACS Nano, 2021, 15, 17582-17601.	14.6	55
81	Microbubble tunneling in gel phantoms. Journal of the Acoustical Society of America, 2009, 125, EL183-EL189.	1.1	54
82	Quantitative Evaluation of Perfusion and Permeability of Peripheral Tumors Using Contrast-Enhanced Computed Tomography. Investigative Radiology, 2004, 39, 340-349.	6.2	53
83	Acoustic response from adherent targeted contrast agents. Journal of the Acoustical Society of America, 2006, 120, EL63-EL69.	1.1	53
84	Application of ultrasound to selectively localize nanodroplets for targeted imaging and therapy. Molecular Imaging, 2006, 5, 160-74.	1.4	53
85	High-frequency dynamics of ultrasound contrast agents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1981-1991.	3.0	52
86	Noninvasive thermometry assisted by a dual-function ultrasound transducer for mild hyperthermia. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2671-2684.	3.0	51
87	Ultrasound molecular imaging of tumor angiogenesis with a neuropilin-1-targeted microbubble. Biomaterials, 2015, 56, 104-113.	11.4	51
88	Effect of coupled oscillations on microbubble behavior. Journal of the Acoustical Society of America, 2003, 114, 1678-1690.	1.1	50
89	Contrast-assisted Destruction-replenishment Ultrasound for the Assessment of Tumor Microvasculature in a Rat Model. Technology in Cancer Research and Treatment, 2002, 1, 459-470.	1.9	49
90	Enhanced microbubble contrast agent oscillation following 250 kHz insonation. Scientific Reports, 2018, 8, 16347.	3.3	48

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91	Immune modulation resulting from MR-guided high intensity focused ultrasound in a model of murine breast cancer. Scientific Reports, 2021, 11, 927.	3.3	48
92	Direct Video-Microscopic Observation of the Dynamic Effects of Medical Ultrasound on Ultrasound Contrast Microspheres. Investigative Radiology, 1998, 33, 863-870.	6.2	48
93	Enhanced in vivo bioluminescence imaging using liposomal luciferin delivery system. Journal of Controlled Release, 2010, 141, 128-136.	9.9	46
94	A sensitive TLRH targeted imaging technique for ultrasonic molecular imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 305-316.	3.0	46
95	Liposomal Cu-64 Labeling Method Using Bifunctional Chelators: Poly(ethylene glycol) Spacer and Chelator Effects. Bioconjugate Chemistry, 2010, 21, 1206-1215.	3.6	45
96	Contrast-Enhanced Computed Tomography and Ultrasound for the Evaluation of Tumor Blood Flow. Investigative Radiology, 2005, 40, 134-147.	6.2	43
97	Efficient array design for sonotherapy. Physics in Medicine and Biology, 2008, 53, 3943-3969.	3.0	43
98	Multimodal imaging enables early detection and characterization of changes in tumor permeability of brain metastases. Journal of Controlled Release, 2013, 172, 812-822.	9.9	43
99	A new wideband spread target maximum likelihood estimator for blood velocity estimation. II. Evaluation of estimator with experimental data. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1991, 38, 17-26.	3.0	42
100	The effect of size on the acoustic response of polymer-shelled contrast agents. Ultrasound in Medicine and Biology, 2005, 31, 439-444.	1.5	42
101	An Imaging-Driven Model for Liposomal Stability and Circulation. Molecular Pharmaceutics, 2010, 7, 12-21.	4.6	42
102	Microfluidic System for Facilitated Quantification of Nanoparticle Accumulation to Cells Under Laminar Flow. Annals of Biomedical Engineering, 2013, 41, 89-99.	2.5	42
103	Assessing the barriers to imageâ€guided drug delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 1-14.	6.1	42
104	Tumor-specific delivery of gemcitabine with activatable liposomes. Journal of Controlled Release, 2019, 309, 277-288.	9.9	42
105	Sentinel Node Detection Using Contrast-Enhanced Power Doppler Ultrasound Lymphography. Investigative Radiology, 2003, 38, 358-365.	6.2	41
106	Magnetic Resonance Thermometry at 7T for Real-Time Monitoring and Correction of Ultrasound Induced Mild Hyperthermia. PLoS ONE, 2012, 7, e35509.	2.5	41
107	Leveraging the power of ultrasound for therapeutic design and optimization. Journal of Controlled Release, 2011, 156, 297-306.	9.9	40
108	Cholesterol transport from liposomal delivery vehicles. Biomaterials, 2007, 28, 4311-4320.	11.4	39

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109	Nonviral ultrasound-mediated gene delivery in small and large animal models. Nature Protocols, 2019, 14, 1015-1026.	12.0	39
110	Dynamic imaging of arginine-rich heart-targeted vehicles in a mouse model. Biomaterials, 2008, 29, 1976-1988.	11.4	38
111	Spatial and Temporal-Controlled Tissue Heating on a Modified Clinical Ultrasound Scanner for Generating Mild Hyperthermia in Tumors. IEEE Transactions on Biomedical Engineering, 2010, 57, 155-166.	4.2	38
112	Shell waves and acoustic scattering from ultrasound contrast agents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 409-418.	3.0	37
113	Ultrasound assessment of angiogenesis in a matrigel model in rats. Ultrasound in Medicine and Biology, 2006, 32, 673-681.	1.5	37
114	The pharmacokinetics of Zr-89 labeled liposomes over extended periods in a murine tumor model. Nuclear Medicine and Biology, 2015, 42, 155-163.	0.6	37
115	Ultrasound radiation force modulates ligand availability on targeted contrast agents. Molecular Imaging, 2006, 5, 139-47.	1.4	37
116	Quantitative contrast enhanced ultrasound and ct assessment of tumor response to antiangiogenic therapy in rats. Ultrasound in Medicine and Biology, 2007, 33, 235-245.	1.5	36
117	InÂvitro characterization and inÂvivo ultrasound molecular imaging of nucleolin-targeted microbubbles. Biomaterials, 2017, 118, 63-73.	11.4	36
118	Toward Personalized Peptide-Based Cancer Nanovaccines: A Facile and Versatile Synthetic Approach. Bioconjugate Chemistry, 2017, 28, 2756-2771.	3.6	36
119	Acoustical structured illumination for super-resolution ultrasound imaging. Communications Biology, 2018, 1, 3.	4.4	36
120	In situ T-cell transfection by anti-CD3-conjugated lipid nanoparticles leads to T-cell activation, migration, and phenotypic shift. Biomaterials, 2022, 281, 121339.	11.4	36
121	Changes in the echoes from ultrasonic contrast agents with imaging parameters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1537-1548.	3.0	35
122	Positron emission tomography imaging of the stability of Cu-64 labeled dipalmitoyl and distearoyl lipids in liposomes. Journal of Controlled Release, 2011, 151, 28-34.	9.9	35
123	Effect of Alkyl Length of Peptide–Polymer Amphiphile on Cargo Encapsulation Stability and Pharmacokinetics of 3-Helix Micelles. Biomacromolecules, 2014, 15, 2963-2970.	5.4	35
124	Radiation-Force Assisted Targeting Facilitates Ultrasonic Molecular Imaging. Molecular Imaging, 2004, 3, 153535002004041.	1.4	34
125	Ultrasonic Enhancement of Drug Penetration in Solid Tumors. Frontiers in Oncology, 2013, 3, 204.	2.8	34
126	Contrast imaging with chirped excitation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 520-529.	3.0	33

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127	Optical and acoustical interrogation of submicron contrast agents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1641-1651.	3.0	32
128	Longitudinal Investigation of Permeability and Distribution of Macromolecules in Mouse Malignant Transformation Using PET. Clinical Cancer Research, 2011, 17, 550-559.	7.0	32
129	Inhibition of mitochondrial respiration prevents BRAF-mutant melanoma brain metastasis. Acta Neuropathologica Communications, 2019, 7, 55.	5.2	32
130	Development of thermosensitive resiquimod-loaded liposomes for enhanced cancer immunotherapy. Journal of Controlled Release, 2021, 330, 1080-1094.	9.9	32
131	The effect of frequency dependent scattering and attenuation on the estimation of blood velocity using ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1992, 39, 754-767.	3.0	31
132	A model for the dynamics of ultrasound contrast agents <i>in vivo</i> . Journal of the Acoustical Society of America, 2010, 128, 1511-1521.	1.1	31
133	Evaluation of Doxorubicin-Loaded 3-Helix Micelles as Nanocarriers. Biomacromolecules, 2013, 14, 3697-3705.	5.4	31
134	Combining activatable nanodelivery with immunotherapy in a murine breast cancer model. Journal of Controlled Release, 2019, 303, 42-54.	9.9	31
135	Polymeric perfluorocarbon nanoemulsions are ultrasound-activated wireless drug infusion catheters. Biomaterials, 2019, 206, 73-86.	11.4	30
136	Accumulation, internalization and therapeutic efficacy of neuropilin-1-targeted liposomes. Journal of Controlled Release, 2014, 178, 108-117.	9.9	28
137	Ultrasound-Mediated Gene Delivery Enhances Tendon Allograft Integration in Mini-Pig Ligament Reconstruction. Molecular Therapy, 2018, 26, 1746-1755.	8.2	28
138	A new high resolution color flow system using an eigendecomposition-based adaptive filter for clutter rejection. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1739-1754.	3.0	27
139	Asymmetric oscillation of cavitation bubbles in a microvessel and its implications upon mechanisms of clinical vessel injury in shock-wave lithotripsy. International Journal of Non-Linear Mechanics, 2005, 40, 341-350.	2.6	27
140	Design aspects of focal beams from high-intensity arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1590-1602.	3.0	27
141	Development of a spherically focused phased array transducer for ultrasonic image-guided hyperthermia. Physics in Medicine and Biology, 2016, 61, 5275-5296.	3.0	27
142	CpG expedites regression of local and systemic tumors when combined with activatable nanodelivery. Journal of Controlled Release, 2015, 220, 253-264.	9.9	26
143	A comparison of image contrast with (64)Cu-labeled long circulating liposomes and (18)F-FDG in a murine model of mammary carcinoma. American Journal of Nuclear Medicine and Molecular Imaging, 2013, 3, 32-43.	1.0	26
144	Ultrasonic measurement of breast tissue motion and the implications for velocity estimation. Ultrasound in Medicine and Biology, 1997, 23, 1047-1057.	1.5	25

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145	Ultrasonic mapping of the microvasculature: signal alignment. Ultrasound in Medicine and Biology, 1998, 24, 809-824.	1.5	25
146	High-Resolution Functional Vascular Assessment With Ultrasound. IEEE Transactions on Medical Imaging, 2004, 23, 1263-1275.	8.9	25
147	Comparison of PET Imaging with 64Cu-Liposomes and 18F-FDG in the 7,12-Dimethylbenz[a]anthracene (DMBA)-Induced Hamster Buccal Pouch Model of Oral Dysplasia and Squamous Cell Carcinoma. Molecular Imaging and Biology, 2014, 16, 284-292.	2.6	25
148	Spatial and Temporal Control of Hyperthermia Using Real Time Ultrasonic Thermal Strain Imaging with Motion Compensation, Phantom Study. PLoS ONE, 2015, 10, e0134938.	2.5	25
149	Motion Corrected Cadence CPS Ultrasound for Quantifying Response to Vasoactive Drugs in a Rat Kidney Model. Urology, 2009, 74, 675-681.	1.0	24
150	The cargo of CRPPR-conjugated liposomes crosses the intact murine cardiac endothelium. Journal of Controlled Release, 2012, 163, 10-17.	9.9	24
151	Ultrasound ablation enhances drug accumulation and survival in mammary carcinoma models. Journal of Clinical Investigation, 2015, 126, 99-111.	8.2	24
152	Microfluidic co-cultures with hydrogel-based ligand trap to study paracrine signals giving rise to cancer drug resistance. Lab on A Chip, 2015, 15, 4614-4624.	6.0	23
153	Immuneâ€mediated ECM depletion improves tumour perfusion and payload delivery. EMBO Molecular Medicine, 2019, 11, e10923.	6.9	23
154	High-resolution ultrasonic imaging of blood flow in the anterior segment of the eye. Investigative Ophthalmology and Visual Science, 1999, 40, 1373-81.	3.3	23
155	Anatomical image-guided fluorescence molecular tomography reconstruction using kernel method. Journal of Biomedical Optics, 2017, 22, 055001.	2.6	22
156	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
157	Modulation of ATP/ADP Concentration at the Endothelial Surface by Shear Stress: Effect of Flow Recirculation. Annals of Biomedical Engineering, 2007, 35, 505-516.	2.5	20
158	Synergies between therapeutic ultrasound, gene therapy and immunotherapy in cancer treatment. Advanced Drug Delivery Reviews, 2021, 178, 113906.	13.7	20
159	Contrast Enhanced Intermittent Power Doppler Ultrasound with Sub-Micron Bubbles for Sentinel Node Detection. Academic Radiology, 2002, 9, S389-S391.	2.5	18
160	Ultrasound contrast microbubbles in imaging and therapy: physical principles and engineering. Physics in Medicine and Biology, 2009, 54, 4621-4621.	3.0	18
161	Magnetic Resonance Imaging Assessment of Effective Ablated Volume following High Intensity Focused Ultrasound. PLoS ONE, 2015, 10, e0120037.	2.5	18
162	Positron emission tomography imaging of novel AAV capsids maps rapid brain accumulation. Nature Communications, 2020, 11, 2102.	12.8	17

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163	High resolution 3D color flow mapping: Applied to the assessment of breast vasculature. Ultrasound in Medicine and Biology, 1996, 22, 293-304.	1.5	16
164	Ultrasound Imaging of Oxidative Stress In Vivo with Chemically-Generated Gas Microbubbles. Annals of Biomedical Engineering, 2012, 40, 2059-2068.	2.5	16
165	Co-Integrated PIN-PMN-PT 2-D Array and Transceiver Electronics by Direct Assembly Using a 3-D Printed Interposer Grid Frame. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 387-401.	3.0	15
166	Systemic Immunotherapy with Micellar Resiquimod–Polymer Conjugates Triggers a Robust Antitumor Response in a Breast Cancer Model. Advanced Healthcare Materials, 2021, 10, e2100008.	7.6	15
167	Concurrent Visualization of Acoustic Radiation Force Displacement and Shear Wave Propagation with 7T MRI. PLoS ONE, 2015, 10, e0139667.	2.5	15
168	Ultrasonic Analysis of Peptide- and Antibody-Targeted Microbubble Contrast Agents for Molecular Imaging of α v β 3 -Expressing Cells. Molecular Imaging, 2004, 3, 153535002004031.	1.4	14
169	Multiplexed ultrasound beam summation for side lobe reduction. Scientific Reports, 2019, 9, 13961.	3.3	13
170	In vivo validation and 3D visualization of broadband ultrasound molecular imaging. American Journal of Nuclear Medicine and Molecular Imaging, 2013, 3, 336-49.	1.0	13
171	Fast ultrasound beam prediction for linear and regular two-dimensional arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2001-2012.	3.0	12
172	An Open Environment CT-US Fusion for Tissue Segmentation during Interventional Guidance. PLoS ONE, 2011, 6, e27372.	2.5	12
173	A Physiological Perspective on the Use of Imaging to Assess the In Vivo Delivery of Therapeutics. Annals of Biomedical Engineering, 2014, 42, 280-298.	2.5	12
174	Supersonic transient magnetic resonance elastography for quantitative assessment of tissue elasticity. Physics in Medicine and Biology, 2017, 62, 4083-4106.	3.0	12
175	Transmitted Ultrasound Pressure Variation in Micro Blood Vessel Phantoms. Ultrasound in Medicine and Biology, 2008, 34, 1014-1020.	1.5	11
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