

Katherine Ferrara

List of Publications by Citations

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

221
papers

12,077
citations

62
h-index

102
g-index

253
ext. papers

13,711
ext. citations

6.7
avg, IF

6.27
L-index

#	Paper	IF	Citations
221	Ultrasound microbubble contrast agents: fundamentals and application to gene and drug delivery. <i>Annual Review of Biomedical Engineering</i> , 2007 , 9, 415-47	12	910
220	Ultrasound contrast microbubbles in imaging and therapy: physical principles and engineering. <i>Physics in Medicine and Biology</i> , 2009 , 54, R27-57	3.8	320
219	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
218	Mechanisms of contrast agent destruction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001 , 48, 232-48	3.2	277
217	Lipid-shelled vehicles: engineering for ultrasound molecular imaging and drug delivery. <i>Accounts of Chemical Research</i> , 2009 , 42, 881-92	24.3	264
216	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
215	Epoxy metabolites of docosahexaenoic acid (DHA) inhibit angiogenesis, tumor growth, and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6530-5	11.5	221
214	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
213	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
212	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
211	Noninvasive imaging of inflammation by ultrasound detection of phagocytosed microbubbles. <i>Circulation</i> , 2000 , 102, 531-8	16.7	209
210	Driving delivery vehicles with ultrasound. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 1097-102	18.5	202
209	Targeted imaging using ultrasound. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 362-77	5.6	192
208	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
207	Ultrasound molecular imaging of tumor angiogenesis with an integrin targeted microbubble contrast agent. <i>Investigative Radiology</i> , 2011 , 46, 215-24	10.1	167
206	The atypical mechanosensitive microRNA-712 derived from pre-ribosomal RNA induces endothelial inflammation and atherosclerosis. <i>Nature Communications</i> , 2013 , 4, 3000	17.4	162
205	Optical observation of lipid- and polymer-shelled ultrasound microbubble contrast agents. <i>Applied Physics Letters</i> , 2004 , 84, 631-633	3.4	159

204	Cardiac myocyte exosomes: stability, HSP60, and proteomics. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H954-65	5.2	158
203	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
202	A method for radiation-force localized drug delivery using gas-filled lipospheres. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 822-31	3.2	151
201	Evaluation of tumor angiogenesis with US: imaging, Doppler, and contrast agents. <i>Academic Radiology</i> , 2000 , 7, 824-39	4.3	151
200	Therapeutic effects of paclitaxel-containing ultrasound contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1771-80	3.5	131
199	Radiation-force assisted targeting facilitates ultrasonic molecular imaging. <i>Molecular Imaging</i> , 2004 , 3, 135-48	3.7	129
198	Enhancement of vascular permeability with low-frequency contrast-enhanced ultrasound in the chorioallantoic membrane model. <i>Radiology</i> , 2007 , 243, 112-21	20.5	121
197	Nondestructive subharmonic imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 883-92	3.2	120
196	Optical and acoustical dynamics of microbubble contrast agents inside neutrophils. <i>Biophysical Journal</i> , 2001 , 80, 1547-56	2.9	117
195	DNA and polylysine adsorption and multilayer construction onto cationic lipid-coated microbubbles. <i>Langmuir</i> , 2007 , 23, 9401-8	4	116
194	Optical observation of contrast agent destruction. <i>Applied Physics Letters</i> , 2000 , 77, 1056	3.4	113
193	Multifunctional Nanoparticles Facilitate Molecular Targeting and miRNA Delivery to Inhibit Atherosclerosis in ApoE(-/-) Mice. <i>ACS Nano</i> , 2015 , 9, 8885-97	16.7	109
192	Lateral phase separation in lipid-coated microbubbles. <i>Langmuir</i> , 2006 , 22, 4291-7	4	109
191	Acoustic response of compliant microvessels containing ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2006 , 51, 5065-88	3.8	105
190	Angiogenic response to bioactive glass promotes bone healing in an irradiated calvarial defect. <i>Tissue Engineering - Part A</i> , 2009 , 15, 877-85	3.9	102
189	Targeted imaging using ultrasound contrast agents. Progress and opportunities for clinical and research applications. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2004 , 23, 18-29		102
188	A novel method to label preformed liposomes with ⁶⁴ Cu for positron emission tomography (PET) imaging. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2577-84	6.3	100
187	Targeting activin receptor-like kinase 1 inhibits angiogenesis and tumorigenesis through a mechanism of action complementary to anti-VEGF therapies. <i>Cancer Research</i> , 2011 , 71, 1362-73	10.1	98

186	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
185	EB polyunsaturated fatty acids-derived lipid metabolites on angiogenesis, inflammation and cancer. <i>Prostaglandins and Other Lipid Mediators</i> , 2014 , 113-115, 13-20	3.7	97
184	A stimulus-responsive contrast agent for ultrasound molecular imaging. <i>Biomaterials</i> , 2008 , 29, 597-606	15.6	94
183	Specific penetration and accumulation of a homing peptide within atherosclerotic plaques of apolipoprotein E-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7154-9	11.5	92
182	Copper-doxorubicin as a nanoparticle cargo retains efficacy with minimal toxicity. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1948-58	5.6	91
181	Long-circulating liposomes radiolabeled with [¹⁸ F]fluorodipalmitin ([¹⁸ F]FDP). <i>Nuclear Medicine and Biology</i> , 2007 , 34, 165-71	2.1	88
180	Application of Ultrasound to Selectively Localize Nanodroplets for Targeted Imaging and Therapy. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00019	3.7	88
179	Dynamics and fragmentation of thick-shelled microbubbles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1400-10	3.2	86
178	Dynamics of therapeutic ultrasound contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2002 , 28, 805-16	15.5	83
177	Immune activation and MRgFUS. <i>Journal of Therapeutic Ultrasound</i> , 2015 , 3,		78
176	BM-34NEW USES OF OLD DRUGS FOR THE CLINICAL TREATMENT OF BRAIN METASTASES. <i>Neuro-Oncology</i> , 2014 , 16, v39-v39	1	78
175	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
174	Long-circulating 15 nm micelles based on amphiphilic 3-helix peptide-PEG conjugates. <i>ACS Nano</i> , 2012 , 6, 5320-9	16.7	77
173	The natural frequency of nonlinear oscillation of ultrasound contrast agents in microvessels. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1140-8	3.5	77
172	Ultrasound increases nanoparticle delivery by reducing intratumoral pressure and increasing transport in epithelial and epithelial-mesenchymal transition tumors. <i>Cancer Research</i> , 2012 , 72, 1485-93 ^{10.1}		73
171	A new imaging strategy using wideband transient response of ultrasound contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1320-9	3.2	71
170	Complete regression of local cancer using temperature-sensitive liposomes combined with ultrasound-mediated hyperthermia. <i>Journal of Controlled Release</i> , 2013 , 172, 266-273	11.7	69
169	A new wideband spread target maximum likelihood estimator for blood velocity estimation. I. Theory. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1991 , 38, 1-16	3.2	69

168	Dual inhibition of cyclooxygenase-2 and soluble epoxide hydrolase synergistically suppresses primary tumor growth and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11127-32	11.5	68
167	Asymmetric oscillation of adherent targeted ultrasound contrast agents. <i>Applied Physics Letters</i> , 2005 , 87, 1341031-1341033	3.4	68
166	In situ bone tissue engineering via ultrasound-mediated gene delivery to endogenous progenitor cells in mini-pigs. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	67
165	(64)Cu-labeled LyP-1-dendrimer for PET-CT imaging of atherosclerotic plaque. <i>Bioconjugate Chemistry</i> , 2014 , 25, 231-9	6.3	66
164	A radio-frequency coupling network for heating of citrate-coated gold nanoparticles for cancer therapy: design and analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 2002-12	5	66
163	Color flow mapping. <i>Ultrasound in Medicine and Biology</i> , 1997 , 23, 321-45	3.5	65
162	Dynamic microPET imaging of ultrasound contrast agents and lipid delivery. <i>Journal of Controlled Release</i> , 2008 , 131, 160-6	11.7	65
161	Ultrasound localization microscopy to image and assess microvasculature in a rat kidney. <i>Scientific Reports</i> , 2017 , 7, 13662	4.9	63
160	Selective imaging of adherent targeted ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2007 , 52, 2055-72	3.8	63
159	Multiparameter evaluation of in vivo gene delivery using ultrasound-guided, microbubble-enhanced sonoporation. <i>Journal of Controlled Release</i> , 2016 , 223, 157-164	11.7	60
158	Ultrasound Radiation Force Modulates Ligand Availability on Targeted Contrast Agents. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00016	3.7	60
157	Priming is key to effective incorporation of image-guided thermal ablation into immunotherapy protocols. <i>JCI Insight</i> , 2017 , 2, e90521	9.9	58
156	Novel theranostic nanoporphyryns for photodynamic diagnosis and trimodal therapy for bladder cancer. <i>Biomaterials</i> , 2016 , 104, 339-51	15.6	58
155	Microbubble oscillation in tubes with diameters of 12, 25, and 195 microns. <i>Applied Physics Letters</i> , 2006 , 88, 033902	3.4	57
154	CD8 T-Cell Density Imaging with Cu-Labeled Cys-Diabody Informs Immunotherapy Protocols. <i>Clinical Cancer Research</i> , 2018 , 24, 4976-4987	12.9	57
153	Contrast-enhanced US of microcirculation of superficially implanted tumors in rats. <i>Radiology</i> , 2003 , 229, 439-46	20.5	56
152	A swept-scanning mode for estimation of blood velocity in the microvasculature. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1998 , 45, 1437-40	3.2	55
151	Novel method to label solid lipid nanoparticles with 64cu for positron emission tomography imaging. <i>Bioconjugate Chemistry</i> , 2011 , 22, 808-18	6.3	53

150	Insonation of targeted microbubbles produces regions of reduced blood flow within tumor vasculature. <i>Investigative Radiology</i> , 2012 , 47, 398-405	10.1	53
149	An optical and microPET assessment of thermally-sensitive liposome biodistribution in the Met-1 tumor model: Importance of formulation. <i>Journal of Controlled Release</i> , 2010 , 143, 13-22	11.7	47
148	Ultrasound-driven microbubble oscillation and translation within small phantom vessels. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1978-87	3.5	47
147	Acoustic response from adherent targeted contrast agents. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, EL63-9	2.2	47
146	Quantitative evaluation of perfusion and permeability of peripheral tumors using contrast-enhanced computed tomography. <i>Investigative Radiology</i> , 2004 , 39, 340-9	10.1	47
145	Short-duration-focused ultrasound stimulation of Hsp70 expression in vivo. <i>Physics in Medicine and Biology</i> , 2008 , 53, 3641-60	3.8	46
144	Application of ultrasound to selectively localize nanodroplets for targeted imaging and therapy. <i>Molecular Imaging</i> , 2006 , 5, 160-74	3.7	46
143	Enhanced in vivo bioluminescence imaging using liposomal luciferin delivery system. <i>Journal of Controlled Release</i> , 2010 , 141, 128-36	11.7	44
142	High-frequency dynamics of ultrasound contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1981-91	3.2	44
141	Ultrasound molecular imaging of tumor angiogenesis with a neuropilin-1-targeted microbubble. <i>Biomaterials</i> , 2015 , 56, 104-13	15.6	43
140	Self-assembled 20-nm (64)Cu-micelles enhance accumulation in rat glioblastoma. <i>Journal of Controlled Release</i> , 2015 , 220, 51-60	11.7	43
139	Microbubble tunneling in gel phantoms. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, EL183-9	2.2	43
138	A new high resolution color flow system using an eigendecomposition-based adaptive filter for clutter rejection. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1384-99	3.2	43
137	Multimodal imaging enables early detection and characterization of changes in tumor permeability of brain metastases. <i>Journal of Controlled Release</i> , 2013 , 172, 812-22	11.7	42
136	Effect of coupled oscillations on microbubble behavior. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 1678-90	2.2	42
135	Distinct immune signatures in directly treated and distant tumors result from TLR adjuvants and focal ablation. <i>Theranostics</i> , 2018 , 8, 3611-3628	12.1	39
134	Albumin modulates S1P delivery from red blood cells in perfused microvessels: mechanism of the protein effect. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1011-7	5.2	39
133	Microfluidic system for facilitated quantification of nanoparticle accumulation to cells under laminar flow. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 89-99	4.7	39

132	Assessing the barriers to image-guided drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014 , 6, 1-14	9.2	39
131	Liposomal Cu-64 labeling method using bifunctional chelators: poly(ethylene glycol) spacer and chelator effects. <i>Bioconjugate Chemistry</i> , 2010 , 21, 1206-15	6.3	39
130	Noninvasive thermometry assisted by a dual-function ultrasound transducer for mild hyperthermia. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 2671-84	3.2	39
129	Contrast-enhanced computed tomography and ultrasound for the evaluation of tumor blood flow. <i>Investigative Radiology</i> , 2005 , 40, 134-47	10.1	38
128	Magnetic resonance thermometry at 7T for real-time monitoring and correction of ultrasound induced mild hyperthermia. <i>PLoS ONE</i> , 2012 , 7, e35509	3.7	37
127	An imaging-driven model for liposomal stability and circulation. <i>Molecular Pharmaceutics</i> , 2010 , 7, 12-21	5.6	37
126	The effect of size on the acoustic response of polymer-shelled contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 439-44	3.5	37
125	Leveraging the power of ultrasound for therapeutic design and optimization. <i>Journal of Controlled Release</i> , 2011 , 156, 297-306	11.7	36
124	A sensitive TLRH targeted imaging technique for ultrasonic molecular imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 305-16	3.2	36
123	Dynamic imaging of arginine-rich heart-targeted vehicles in a mouse model. <i>Biomaterials</i> , 2008 , 29, 1976-86	13.6	36
122	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
121	Efficient array design for sonotherapy. <i>Physics in Medicine and Biology</i> , 2008 , 53, 3943-69	3.8	35
120	Contrast-assisted destruction-replenishment ultrasound for the assessment of tumor microvasculature in a rat model. <i>Technology in Cancer Research and Treatment</i> , 2002 , 1, 459-70	2.7	35
119	Ultrasonic enhancement of drug penetration in solid tumors. <i>Frontiers in Oncology</i> , 2013 , 3, 204	5.3	34
118	Cholesterol transport from liposomal delivery vehicles. <i>Biomaterials</i> , 2007 , 28, 4311-20	15.6	34
117	Spatial and temporal-controlled tissue heating on a modified clinical ultrasound scanner for generating mild hyperthermia in tumors. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 155-66	5	33
116	Ultrasound assessment of angiogenesis in a matrigel model in rats. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 673-81	3.5	33
115	A new wideband spread target maximum likelihood estimator for blood velocity estimation. II. Evaluation of estimator with experimental data. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1991 , 38, 17-26	3.2	33

114	Shell waves and acoustic scattering from ultrasound contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001 , 48, 409-18	3.2	32
113	Ultrasound radiation force modulates ligand availability on targeted contrast agents. <i>Molecular Imaging</i> , 2006 , 5, 139-47	3.7	32
112	Two-way magnetic resonance tuning and enhanced subtraction imaging for non-invasive and quantitative biological imaging. <i>Nature Nanotechnology</i> , 2020 , 15, 482-490	28.7	32
111	Longitudinal investigation of permeability and distribution of macromolecules in mouse malignant transformation using PET. <i>Clinical Cancer Research</i> , 2011 , 17, 550-9	12.9	31
110	Sentinel Node Detection Using Contrast-Enhanced Power Doppler Ultrasound Lymphography. <i>Investigative Radiology</i> , 2003 , 38, 358-365	10.1	31
109	Quantitative contrast enhanced ultrasound and CT assessment of tumor response to antiangiogenic therapy in rats. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 235-45	3.5	30
108	In vitro characterization and in vivo ultrasound molecular imaging of nucleolin-targeted microbubbles. <i>Biomaterials</i> , 2017 , 118, 63-73	15.6	29
107	The pharmacokinetics of Zr-89 labeled liposomes over extended periods in a murine tumor model. <i>Nuclear Medicine and Biology</i> , 2015 , 42, 155-63	2.1	29
106	Positron emission tomography imaging of the stability of Cu-64 labeled dipalmitoyl and distearoyl lipids in liposomes. <i>Journal of Controlled Release</i> , 2011 , 151, 28-34	11.7	29
105	Contrast imaging with chirped excitation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 520-9	3.2	29
104	The effect of frequency dependent scattering and attenuation on the estimation of blood velocity using ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1992 , 39, 754-67 ³⁻²		29
103	Changes in the echoes from ultrasonic contrast agents with imaging parameters. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1998 , 45, 1537-48	3.2	28
102	Toward Personalized Peptide-Based Cancer Nanovaccines: A Facile and Versatile Synthetic Approach. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2756-2771	6.3	26
101	Effect of alkyl length of peptide-polymer amphiphile on cargo encapsulation stability and pharmacokinetics of 3-helix micelles. <i>Biomacromolecules</i> , 2014 , 15, 2963-70	6.9	26
100	Optical and acoustical interrogation of submicron contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1641-51	3.2	26
99	Tumor-specific delivery of gemcitabine with activatable liposomes. <i>Journal of Controlled Release</i> , 2019 , 309, 277-288	11.7	25
98	Evaluation of doxorubicin-loaded 3-helix micelles as nanocarriers. <i>Biomacromolecules</i> , 2013 , 14, 3697-705.9		25
97	A model for the dynamics of ultrasound contrast agents in vivo. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 1511-21	2.2	25

96	Accumulation, internalization and therapeutic efficacy of neuropilin-1-targeted liposomes. <i>Journal of Controlled Release</i> , 2014 , 178, 108-17	11.7	24
95	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
94	Ultrasonic measurement of breast tissue motion and the implications for velocity estimation. <i>Ultrasound in Medicine and Biology</i> , 1997 , 23, 1047-57	3.5	23
93	A new high resolution color flow system using an eigendecomposition-based adaptive filter for clutter rejection. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1739-54 ²	2.2	23
92	A comparison of image contrast with (64)Cu-labeled long circulating liposomes and (18)F-FDG in a murine model of mammary carcinoma. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 3, 32-43	2.2	23
91	Enhanced microbubble contrast agent oscillation following 250 kHz insonation. <i>Scientific Reports</i> , 2018 , 8, 16347	4.9	23
90	Nonviral ultrasound-mediated gene delivery in small and large animal models. <i>Nature Protocols</i> , 2019 , 14, 1015-1026	18.8	22
89	Acoustical structured illumination for super-resolution ultrasound imaging. <i>Communications Biology</i> , 2018 , 1, 3	6.7	22
88	Asymmetric oscillation of cavitation bubbles in a microvessel and its implications upon mechanisms of clinical vessel injury in shock-wave lithotripsy. <i>International Journal of Non-Linear Mechanics</i> , 2005 , 40, 341-350	2.8	22
87	Microfluidic co-cultures with hydrogel-based ligand trap to study paracrine signals giving rise to cancer drug resistance. <i>Lab on A Chip</i> , 2015 , 15, 4614-24	7.2	21
86	Ultrasound ablation enhances drug accumulation and survival in mammary carcinoma models. <i>Journal of Clinical Investigation</i> , 2016 , 126, 99-111	15.9	20
85	Spatial and Temporal Control of Hyperthermia Using Real Time Ultrasonic Thermal Strain Imaging with Motion Compensation, Phantom Study. <i>PLoS ONE</i> , 2015 , 10, e0134938	3.7	20
84	Ultrasound-Mediated Gene Delivery Enhances Tendon Allograft Integration in Mini-Pig Ligament Reconstruction. <i>Molecular Therapy</i> , 2018 , 26, 1746-1755	11.7	20
83	High-resolution ultrasonic imaging of blood flow in the anterior segment of the eye. <i>Investigative Ophthalmology and Visual Science</i> , 1999 , 40, 1373-81		20
82	Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12674-12685	11.5	19
81	The cargo of CRPPR-conjugated liposomes crosses the intact murine cardiac endothelium. <i>Journal of Controlled Release</i> , 2012 , 163, 10-7	11.7	19
80	Design aspects of focal beams from high-intensity arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1590-602	3.2	19
79	Ultrasonic mapping of the microvasculature: signal alignment. <i>Ultrasound in Medicine and Biology</i> , 1998 , 24, 809-24	3.5	19

78	Modulation of ATP/ADP concentration at the endothelial surface by shear stress: effect of flow recirculation. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 505-16	4.7	19
77	Combining activatable nanodelivery with immunotherapy in a murine breast cancer model. <i>Journal of Controlled Release</i> , 2019 , 303, 42-54	11.7	18
76	CpG expedites regression of local and systemic tumors when combined with activatable nanodelivery. <i>Journal of Controlled Release</i> , 2015 , 220, 253-264	11.7	18
75	Comparison of PET imaging with ⁶⁴ Cu-liposomes and ¹⁸ F-FDG in the 7,12-dimethylbenz[a]anthracene (DMBA)-induced hamster buccal pouch model of oral dysplasia and squamous cell carcinoma. <i>Molecular Imaging and Biology</i> , 2014 , 16, 284-92	3.8	18
74	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
73	Contrast enhanced intermittent power Doppler ultrasound with sub-micron bubbles for sentinel node detection. <i>Academic Radiology</i> , 2002 , 9 Suppl 2, S389-91	4.3	17
72	Anatomical image-guided fluorescence molecular tomography reconstruction using kernel method. <i>Journal of Biomedical Optics</i> , 2017 , 22, 55001	3.5	15
71	Polymeric perfluorocarbon nanoemulsions are ultrasound-activated wireless drug infusion catheters. <i>Biomaterials</i> , 2019 , 206, 73-86	15.6	15
70	Ultrasound imaging of oxidative stress in vivo with chemically-generated gas microbubbles. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 2059-68	4.7	15
69	High-resolution functional vascular assessment with ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 1263-75	11.7	15
68	Development of a spherically focused phased array transducer for ultrasonic image-guided hyperthermia. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5275-96	3.8	15
67	Immune modulation resulting from MR-guided high intensity focused ultrasound in a model of murine breast cancer. <i>Scientific Reports</i> , 2021 , 11, 927	4.9	15
66	Inhibition of mitochondrial respiration prevents BRAF-mutant melanoma brain metastasis. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 55	7.3	14
65	Magnetic resonance imaging assessment of effective ablated volume following high intensity focused ultrasound. <i>PLoS ONE</i> , 2015 , 10, e0120037	3.7	14
64	Ultrasound contrast microbubbles in imaging and therapy: physical principles and engineering. <i>Physics in Medicine and Biology</i> , 2009 , 54, 4621-4621	3.8	14
63	Gold-Nanostar-Chitosan-Mediated Delivery of SARS-CoV-2 DNA Vaccine for Respiratory Mucosal Immunization: Development and Proof-of-Principle. <i>ACS Nano</i> , 2021 ,	16.7	14
62	High resolution 3D color flow mapping: applied to the assessment of breast vasculature. <i>Ultrasound in Medicine and Biology</i> , 1996 , 22, 293-304	3.5	13
61	In vivo validation and 3D visualization of broadband ultrasound molecular imaging. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 3, 336-49	2.2	13

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