

Katherine Ferrara

List of Publications by Year in Descending Order

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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	Alternative medicine: therapeutic effects on gastric original signet ring carcinoma via ascorbate and combination with sodium alpha lipoate.. <i>BMC Complementary Medicine and Therapies</i> , 2022 , 22, 58	2.9	0
220	A Review of Imaging Methods to Assess Ultrasound-Mediated Ablation. <i>BME Frontiers</i> , 2022 , 2022, 1-17	4.4	0
219	In situ T-cell transfection by anti-CD3-conjugated lipid nanoparticles leads to T-cell activation, migration, and phenotypic shift.. <i>Biomaterials</i> , 2021 , 281, 121339	15.6	3
218	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
217	Systemic Immunotherapy with Micellar Resiquimod-Polymer Conjugates Triggers a Robust Antitumor Response in a Breast Cancer Model. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100008	10.1	1
216	Optimization of microbubble-based DNA vaccination with low-frequency ultrasound for enhanced cancer immunotherapy. <i>Advanced Therapeutics</i> , 2021 , 4, 2100033	4.9	2
215	Synergies between therapeutic ultrasound, gene therapy and immunotherapy in cancer treatment. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113906	18.5	3
214	The effective coupling coefficient for a completed PIN-PMN-PT array. <i>Ultrasonics</i> , 2021 , 109, 106258	3.5	0
213	Development of thermosensitive resiquimod-loaded liposomes for enhanced cancer immunotherapy. <i>Journal of Controlled Release</i> , 2021 , 330, 1080-1094	11.7	13
212	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
211	Minicircles for a two-step blood biomarker and PET imaging early cancer detection strategy. <i>Journal of Controlled Release</i> , 2021 , 335, 281-289	11.7	4
210	Pre-clinical evaluation of immunoPET imaging using agonist CD40 monoclonal antibody in pancreatic tumor-bearing mice. <i>Nuclear Medicine and Biology</i> , 2021 , 98-99, 8-17	2.1	
209	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
208	Gemcitabine-retinoid prodrug loaded nanoparticles display in vitro antitumor efficacy towards drug-resilient human PANC-1 pancreatic cancer cells. <i>Materials Science and Engineering C</i> , 2020 , 117, 111251	8.3	6
207	Positron emission tomography imaging of novel AAV capsids maps rapid brain accumulation. <i>Nature Communications</i> , 2020 , 11, 2102	17.4	7
206	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
205	Co-Integrated PIN-PMN-PT 2-D Array and Transceiver Electronics by Direct Assembly Using a 3-D Printed Interposer Grid Frame. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 387-401	3.2	4

204	Multiplexed ultrasound beam summation for side lobe reduction. <i>Scientific Reports</i> , 2019 , 9, 13961	4.9	6
203	Polymeric perfluorocarbon nanoemulsions are ultrasound-activated wireless drug infusion catheters. <i>Biomaterials</i> , 2019 , 206, 73-86	15.6	15
202	Combining activatable nanodelivery with immunotherapy in a murine breast cancer model. <i>Journal of Controlled Release</i> , 2019 , 303, 42-54	11.7	18
201	Inhibition of mitochondrial respiration prevents BRAF-mutant melanoma brain metastasis. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 55	7.3	14
200	Nonviral ultrasound-mediated gene delivery in small and large animal models. <i>Nature Protocols</i> , 2019 , 14, 1015-1026	18.8	22
199	Acoustic radiation force imaging using a single-shot spiral readout. <i>Physics in Medicine and Biology</i> , 2019 , 64, 125004	3.8	1
198	Tumor-specific delivery of gemcitabine with activatable liposomes. <i>Journal of Controlled Release</i> , 2019 , 309, 277-288	11.7	25
197	Tiled Large Element 1.75D Aperture with Dual Array Modules by Adjacent Integration of PIN-PMN-PT Transducers and Custom High Voltage Switching ASICs 2019 ,		3
196	Immune-mediated ECM depletion improves tumour perfusion and payload delivery. <i>EMBO Molecular Medicine</i> , 2019 , 11, e10923	12	13
195	Simultaneous Axial Multifocal Imaging Using a Single Acoustical Transmission: A Practical Implementation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 273-284	2.2	6
194	Acoustical structured illumination for super-resolution ultrasound imaging. <i>Communications Biology</i> , 2018 , 1, 3	6.7	22
193	Imaging beyond ultrasonically-impenetrable objects. <i>Scientific Reports</i> , 2018 , 8, 5759	4.9	4
192	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
191	Enhanced microbubble contrast agent oscillation following 250 kHz insonation. <i>Scientific Reports</i> , 2018 , 8, 16347	4.9	23
190	A Scalable Method for Squalenylation and Assembly of Multifunctional Cu-Labeled Squalenoylated Gemcitabine Nanoparticles. <i>Nanotheranostics</i> , 2018 , 2, 387-402	5.6	4
189	Unimicellar hyperstars as multi-antigen cancer nanovaccines displaying clustered epitopes of immunostimulating peptides. <i>Biomaterials Science</i> , 2018 , 6, 2850-2858	7.4	5
188	Ultrasound-Mediated Gene Delivery Enhances Tendon Allograft Integration in Mini-Pig Ligament Reconstruction. <i>Molecular Therapy</i> , 2018 , 26, 1746-1755	11.7	20
187	CD8 T-Cell Density Imaging with Cu-Labeled Cys-Diobody Informs Immunotherapy Protocols. <i>Clinical Cancer Research</i> , 2018 , 24, 4976-4987	12.9	57

186	Supersonic transient magnetic resonance elastography for quantitative assessment of tissue elasticity. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4083-4106	3.8	8
185	Anatomical image-guided fluorescence molecular tomography reconstruction using kernel method. <i>Journal of Biomedical Optics</i> , 2017 , 22, 55001	3.5	15
184	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
183	Dynamic contrast enhanced MRI detects changes in vascular transport rate constants following treatment with thermally-sensitive liposomal doxorubicin. <i>Journal of Controlled Release</i> , 2017 , 256, 203-213	11.7	9
182	In vitro characterization and in vivo ultrasound molecular imaging of nucleolin-targeted microbubbles. <i>Biomaterials</i> , 2017 , 118, 63-73	15.6	29
181	Toward Personalized Peptide-Based Cancer Nanovaccines: A Facile and Versatile Synthetic Approach. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2756-2771	6.3	26
180	Ultrasound localization microscopy to image and assess microvasculature in a rat kidney. <i>Scientific Reports</i> , 2017 , 7, 13662	4.9	63
179	PIN-PMN-PT single crystal composite and 3D printed interposer backing for ASIC integration of large aperture 2D array 2017 ,		2
178	Priming is key to effective incorporation of image-guided thermal ablation into immunotherapy protocols. <i>JCI Insight</i> , 2017 , 2, e90521	9.9	58
177	Feasibility of quantitative contrast ultrasound imaging of bladder tumors in dogs. <i>Canadian Veterinary Journal</i> , 2017 , 58, 70-72	0.5	2
176	Super-localization of contrast agents in moving organs, first experiments in a rat kidney 2016 ,		3
175	Intracellular trafficking of a pH-responsive drug metal complex. <i>Journal of Controlled Release</i> , 2016 , 243, 232-242	11.7	7
174	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
173	Ultrasound ablation enhances drug accumulation and survival in mammary carcinoma models. <i>Journal of Clinical Investigation</i> , 2016 , 126, 99-111	15.9	20
172	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
171	2016 ,		1
170	Novel theranostic nanoporphyrins for photodynamic diagnosis and trimodal therapy for bladder cancer. <i>Biomaterials</i> , 2016 , 104, 339-51	15.6	58
169	Ultrasound molecular imaging of tumor angiogenesis with a neuropilin-1-targeted microbubble. <i>Biomaterials</i> , 2015 , 56, 104-13	15.6	43

168	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
167	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
166	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
165	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
164	2015 ,		2
163	Immune activation and MRgFUS. <i>Journal of Therapeutic Ultrasound</i> , 2015 , 3,		78
162	Magnetic resonance imaging assessment of effective ablated volume following high intensity focused ultrasound. <i>PLoS ONE</i> , 2015 , 10, e0120037	3.7	14
161	BMET-34DRUG REPURPOSING DISCOVERS BETA-SITOSTEROL AS AN EFFECTIVE THERAPEUTIC AGENT AGAINST MELANOMA BRAIN METASTASES IN VIVO. <i>Neuro-Oncology</i> , 2015 , 17, v52.3-v52	1	1
160	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
159	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
158	Concurrent Visualization of Acoustic Radiation Force Displacement and Shear Wave Propagation with 7T MRI. <i>PLoS ONE</i> , 2015 , 10, e0139667	3.7	10
157	A physiological perspective on the use of imaging to assess the in vivo delivery of therapeutics. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 280-98	4.7	8
156	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. <i>Molecular Imaging and Biology</i> , 2014 , 16, 284-92	3.8	18
155	Creation and characterization of an ultrasound and CT phantom for noninvasive ultrasound thermometry calibration. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 502-12	5	7
154	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
153	(64)Cu-labeled LyP-1-dendrimer for PET-CT imaging of atherosclerotic plaque. <i>Bioconjugate Chemistry</i> , 2014 , 25, 231-9	6.3	66
152	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
151	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

150	BM-34NEW USES OF OLD DRUGS FOR THE CLINICAL TREATMENT OF BRAIN METASTASES. <i>Neuro-Oncology</i> , 2014 , 16, v39-v39	1	78
149	Quantitation of nanoparticle accumulation in flow using optimized microfluidic chambers. <i>Journal of Drug Targeting</i> , 2014 , 22, 48-56	5.4	7
148	Assessing the barriers to image-guided drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014 , 6, 1-14	9.2	39
147	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
146	Spatial and temporal control of hyperthermia using real time thermal strain imaging with motion compensation 2014 ,		1
145	Accumulation, internalization and therapeutic efficacy of neuropilin-1-targeted liposomes. <i>Journal of Controlled Release</i> , 2014 , 178, 108-17	11.7	24
144	Evaluation of doxorubicin-loaded 3-helix micelles as nanocarriers. <i>Biomacromolecules</i> , 2013 , 14, 3697-705.9	6.9	25
143	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
142	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
141	Cardiac myocyte exosomes: stability, HSP60, and proteomics. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H954-65	5.2	158
140	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
139	A phantom for visualization of three-dimensional drug release by ultrasound-induced mild hyperthermia. <i>Medical Physics</i> , 2013 , 40, 083301	4.4	3
138	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
137	Ultrasonic enhancement of drug penetration in solid tumors. <i>Frontiers in Oncology</i> , 2013 , 3, 204	5.3	34
136	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
135	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
134	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
133	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

132	Long-circulating 15 nm micelles based on amphiphilic 3-helix peptide-PEG conjugates. <i>ACS Nano</i> , 2012 , 6, 5320-9	16.7	77
131	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
130	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
129	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}	10.1	73
128	Insonation of targeted microbubbles produces regions of reduced blood flow within tumor vasculature. <i>Investigative Radiology</i> , 2012 , 47, 398-405	10.1	53
127	Fast ultrasound beam prediction for linear and regular two-dimensional arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 2001-12	3.2	9
126	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
125	An open environment CT-US fusion for tissue segmentation during interventional guidance. <i>PLoS ONE</i> , 2011 , 6, e27372	3.7	10
124	Ultrasound molecular imaging of tumor angiogenesis with an integrin targeted microbubble contrast agent. <i>Investigative Radiology</i> , 2011 , 46, 215-24	10.1	167
123	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
122	Leveraging the power of ultrasound for therapeutic design and optimization. <i>Journal of Controlled Release</i> , 2011 , 156, 297-306	11.7	36
121	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
120	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
119	Novel ultrasound and DCE-MRI analyses after antiangiogenic treatment with a selective VEGF receptor inhibitor. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 909-21	3.5	7
118	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
117	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
116	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
115	Simulation and phantom validation of mild hyperthermia produced by a dual function ultrasound linear array 2010 ,		2

114	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
113	Copper-doxorubicin as a nanoparticle cargo retains efficacy with minimal toxicity. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1948-58	5.6	91
112	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
111	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
110	An imaging-driven model for liposomal stability and circulation. <i>Molecular Pharmaceutics</i> , 2010 , 7, 12-21	5.6	37
109	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
108	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
107	Enhanced in vivo bioluminescence imaging using liposomal luciferin delivery system. <i>Journal of Controlled Release</i> , 2010 , 141, 128-36	11.7	44
106	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
105	Ultrasound mediated drug delivery: the effect of microbubbles on a gel boundary. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 134-6	0.9	1
104	Imaging nanoparticle stability and activation in vivo. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4580-1	0.9	1
103	Function approximations to accelerate 3-D beam predictions for thermal dose calculations 2009 ,		1
102	Microbubble tunneling in gel phantoms. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, EL183-9	2.2	43
101	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
100	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
99	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
98	Lipid-shelled vehicles: engineering for ultrasound molecular imaging and drug delivery. <i>Accounts of Chemical Research</i> , 2009 , 42, 881-92	24.3	264
97	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

96	Dynamic microPET imaging of ultrasound contrast agents and lipid delivery. <i>Journal of Controlled Release</i> , 2008 , 131, 160-6	11.7	65
95	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
94	Efficient array design for sonotherapy. <i>Physics in Medicine and Biology</i> , 2008 , 53, 3943-69	3.8	35
93	Short-duration-focused ultrasound stimulation of Hsp70 expression in vivo. <i>Physics in Medicine and Biology</i> , 2008 , 53, 3641-60	3.8	46
92	A sensitive ultrasonic imaging method for targeted contrast microbubble detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 5290-3	0.9	10
91	2008 ,		1
90	Parameter space for microbubble wall interaction estimated from gel phantom 2008 ,		1
89	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
88	A stimulus-responsive contrast agent for ultrasound molecular imaging. <i>Biomaterials</i> , 2008 , 29, 597-606	15.6	94
87	Dynamic imaging of arginine-rich heart-targeted vehicles in a mouse model. <i>Biomaterials</i> , 2008 , 29, 1976-1986	13.6	36
86	Driving delivery vehicles with ultrasound. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 1097-102	18.5	202
85	Transmitted ultrasound pressure variation in micro blood vessel phantoms. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1014-20	3.5	11
84	Contrast imaging with chirped excitation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 520-9	3.2	29
83	5A-3 Spatial and Temporal Controlled Tissue Heating on a Modified Clinical Ultrasound Scanner for Generating Mild Hyperthermia in Tumors. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		3
82	DNA and polylysine adsorption and multilayer construction onto cationic lipid-coated microbubbles. <i>Langmuir</i> , 2007 , 23, 9401-8	4	116
81	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
80	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
79	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

78	Ultrasound-driven microbubble oscillation and translation within small phantom vessels. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1978-87	3.5	47
77	Cholesterol transport from liposomal delivery vehicles. <i>Biomaterials</i> , 2007 , 28, 4311-20	15.6	34
76	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
75	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
74	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
73	11A-3 A Novel Sensitive Targeted Imaging Technique for Ultrasonic Molecular Imaging. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		2
72	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
71	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
70	Long-circulating liposomes radiolabeled with [¹⁸ F]fluorodipalmitin ([¹⁸ F]FDP). <i>Nuclear Medicine and Biology</i> , 2007 , 34, 165-71	2.1	88
69	Selective imaging of adherent targeted ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2007 , 52, 2055-72	3.8	63
68	. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		2
67	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
66	Acoustic response of compliant microvessels containing ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2006 , 51, 5065-88	3.8	105
65	1F-4 Acoustic Localization of Sub-Micron Droplets for Targeted Imaging and Therapy 2006 ,		1
64	Microbubble oscillation in tubes with diameters of 12, 25, and 195 microns. <i>Applied Physics Letters</i> , 2006 , 88, 033902	3.4	57
63	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
62	Lateral phase separation in lipid-coated microbubbles. <i>Langmuir</i> , 2006 , 22, 4291-7	4	109
61	Application of Ultrasound to Selectively Localize Nanodroplets for Targeted Imaging and Therapy. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00019	3.7	88

60	Ultrasound Radiation Force Modulates Ligand Availability on Targeted Contrast Agents. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00016	3.7	60
59	Acoustic response from adherent targeted contrast agents. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, EL63-9	2.2	47
58	Ultrasound assessment of angiogenesis in a matrigel model in rats. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 673-81	3.5	33
57	Therapeutic effects of paclitaxel-containing ultrasound contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1771-80	3.5	131
56	Biomedical imaging graduate curricula and courses: report from the 2005 Whitaker Biomedical Engineering Educational Summit. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 239-47	4.7	4
55	Ultrasound radiation force modulates ligand availability on targeted contrast agents. <i>Molecular Imaging</i> , 2006 , 5, 139-47	3.7	32
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