

Katherine Ferrara

List of Publications by Year in descending order

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250
papers

14,738
citations

13854

67
h-index

23514

111
g-index

253
all docs

253
docs citations

253
times ranked

11503
citing authors

| # | 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. | 5.7 | 1,089 |
| 2 | Ultrasound contrast microbubbles in imaging and therapy: physical principles and engineering. Physics in Medicine and Biology, 2009, 54, R27-R57. | 1.6 | 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. | 1.7 | 346 |
| 4 | Mechanisms of contrast agent destruction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 232-248. | 1.7 | 328 |
| 5 | Lipid-Shelled Vehicles: Engineering for Ultrasound Molecular Imaging and Drug Delivery. Accounts of Chemical Research, 2009, 42, 881-892. | 7.6 | 292 |
| 6 | The magnitude of radiation force on ultrasound contrast agents. Journal of the Acoustical Society of America, 2002, 112, 2183-2192. | 0.5 | 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. | 1.7 | 263 |
| 8 | Ultrasound radiation force enables targeted deposition of model drug carriers loaded on microbubbles. Journal of Controlled Release, 2006, 111, 128-134. | 4.8 | 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. | 3.3 | 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. | 1.7 | 240 |
| 11 | Targeted imaging using ultrasound. Journal of Magnetic Resonance Imaging, 2002, 16, 362-377. | 1.9 | 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. | 6.6 | 229 |
| 14 | Acoustically-active microbubbles conjugated to liposomes: Characterization of a proposed drug delivery vehicle. Journal of Controlled Release, 2007, 118, 275-284. | 4.8 | 216 |
| 15 | The atypical mechanosensitive microRNA-712 derived from pre-ribosomal RNA induces endothelial inflammation and atherosclerosis. Nature Communications, 2013, 4, 3000. | 5.8 | 198 |
| 16 | Optical observation of lipid- and polymer-shelled ultrasound microbubble contrast agents. Applied Physics Letters, 2004, 84, 631-633. | 1.5 | 194 |
| 17 | Ultrasound Molecular Imaging of Tumor Angiogenesis With an Integrin Targeted Microbubble Contrast Agent. Investigative Radiology, 2011, 46, 215-224. | 3.5 | 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. | 0.5 | 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. | 1.5 | 191 |
| 20 | Evaluation of tumor angiogenesis with US: Imaging, Doppler, and contrast agents. Academic Radiology, 2000, 7, 824-839. | 1.3 | 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. | 1.7 | 179 |
| 22 | Radiation-Force Assisted Targeting Facilitates Ultrasonic Molecular Imaging. Molecular Imaging, 2004, 3, 135-148. | 0.7 | 159 |
| 23 | Nondestructive subharmonic imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 883-892. | 1.7 | 152 |
| 24 | Multifunctional Nanoparticles Facilitate Molecular Targeting and miRNA Delivery to Inhibit Atherosclerosis in ApoE ^{-/-} Mice. ACS Nano, 2015, 9, 8885-8897. | 7.3 | 150 |
| 25 | Therapeutic effects of paclitaxel-containing ultrasound contrast agents. Ultrasound in Medicine and Biology, 2006, 32, 1771-1780. | 0.7 | 148 |
| 26 | Enhancement of Vascular Permeability with Low-Frequency Contrast-enhanced Ultrasound in the Chorioallantoic Membrane Model. Radiology, 2007, 243, 112-121. | 3.6 | 140 |
| 27 | Optical observation of contrast agent destruction. Applied Physics Letters, 2000, 77, 1056. | 1.5 | 134 |
| 28 | Optical and Acoustical Dynamics of Microbubble Contrast Agents inside Neutrophils. Biophysical Journal, 2001, 80, 1547-1556. | 0.2 | 133 |
| 29 | DNA and Polylysine Adsorption and Multilayer Construction onto Cationic Lipid-Coated Microbubbles. Langmuir, 2007, 23, 9401-9408. | 1.6 | 127 |
| 30 | Targeted imaging using ultrasound contrast agents. IEEE Engineering in Medicine and Biology Magazine, 2004, 23, 18-29. | 1.1 | 122 |
| 31 | Acoustic response of compliant microvessels containing ultrasound contrast agents. Physics in Medicine and Biology, 2006, 51, 5065-5088. | 1.6 | 121 |
| 32 | Lateral Phase Separation in Lipid-Coated Microbubbles. Langmuir, 2006, 22, 4291-4297. | 1.6 | 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. | 0.4 | 117 |
| 34 | Ultrasonic Analysis of Peptide- and Antibody-Targeted Microbubble Contrast Agents for Molecular Imaging of β -Amyloid-Expressing Cells. Molecular Imaging, 2004, 3, 125-134. | 0.7 | 115 |
| 35 | Angiogenic Response to Bioactive Glass Promotes Bone Healing in an Irradiated Calvarial Defect. Tissue Engineering - Part A, 2009, 15, 877-885. | 1.6 | 113 |
| 36 | A Novel Method to Label Preformed Liposomes with ⁶⁴ Cu for Positron Emission Tomography (PET) Imaging. Bioconjugate Chemistry, 2008, 19, 2577-2584. | 1.8 | 112 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Ω-3 Polyunsaturated fatty acids-derived lipid metabolites on angiogenesis, inflammation and cancer. Prostaglandins and Other Lipid Mediators, 2014, 113-115, 13-20. | 1.0 | 112 |
| 38 | Ultrasound localization microscopy to image and assess microvasculature in a rat kidney. Scientific Reports, 2017, 7, 13662. | 1.6 | 112 |
| 39 | In situ bone tissue engineering via ultrasound-mediated gene delivery to endogenous progenitor cells in mini-pigs. Science Translational Medicine, 2017, 9, . | 5.8 | 105 |
| 40 | Long-circulating liposomes radiolabeled with [18F]fluorodipalmitin ([18F]FDP). Nuclear Medicine and Biology, 2007, 34, 165-171. | 0.3 | 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. | 1.7 | 103 |
| 42 | Dynamics and fragmentation of thick-shelled microbubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1400-1410. | 1.7 | 103 |
| 43 | Application of Ultrasound to Selectively Localize Nanodroplets for Targeted Imaging and Therapy. Molecular Imaging, 2006, 5, 7290.2006.00019. | 0.7 | 103 |
| 44 | A stimulus-responsive contrast agent for ultrasound molecular imaging. Biomaterials, 2008, 29, 597-606. | 5.7 | 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. | 3.3 | 102 |
| 46 | Copper-64 Doxorubicin as a Nanoparticle Cargo Retains Efficacy with Minimal Toxicity. Molecular Pharmaceutics, 2010, 7, 1948-1958. | 2.3 | 99 |
| 47 | Dynamics of therapeutic ultrasound contrast agents. Ultrasound in Medicine and Biology, 2002, 28, 805-816. | 0.7 | 95 |
| 48 | The Natural Frequency of Nonlinear Oscillation of Ultrasound Contrast Agents in Microvessels. Ultrasound in Medicine and Biology, 2007, 33, 1140-1148. | 0.7 | 92 |
| 49 | Long-Circulating 15 nm Micelles Based on Amphiphilic 3-Helix Peptide-PEG Conjugates. ACS Nano, 2012, 6, 5320-5329. | 7.3 | 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. | 1.7 | 88 |
| 51 | Imaging of angiogenesis using Cadence contrast pulse sequencing and targeted contrast agents. Contrast Media and Molecular Imaging, 2008, 3, 9-18. | 0.4 | 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. | 0.4 | 86 |
| 53 | Complete regression of local cancer using temperature-sensitive liposomes combined with ultrasound-mediated hyperthermia. Journal of Controlled Release, 2013, 172, 266-273. | 4.8 | 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. | 3.3 | 84 |

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|----|--|------|-----------|
| 55 | Novel theranostic nanoporphyrins for photodynamic diagnosis and trimodal therapy for bladder cancer. <i>Biomaterials</i> , 2016, 104, 339-351. | 5.7 | 83 |
| 56 | Priming is key to effective incorporation of image-guided thermal ablation into immunotherapy protocols. <i>JCI Insight</i> , 2017, 2, e90521. | 2.3 | 83 |
| 57 | Multiparameter evaluation of in vivo gene delivery using ultrasound-guided, microbubble-enhanced sonoporation. <i>Journal of Controlled Release</i> , 2016, 223, 157-164. | 4.8 | 82 |
| 58 | CD8+ T-Cell Density Imaging with ⁶⁴ Cu-Labeled Cys-Diabody Informs Immunotherapy Protocols. <i>Clinical Cancer Research</i> , 2018, 24, 4976-4987. | 3.2 | 79 |
| 59 | Two-way magnetic resonance tuning and enhanced subtraction imaging for non-invasive and quantitative biological imaging. <i>Nature Nanotechnology</i> , 2020, 15, 482-490. | 15.6 | 78 |
| 60 | Color flow mapping. <i>Ultrasound in Medicine and Biology</i> , 1997, 23, 321-345. | 0.7 | 77 |
| 61 | Asymmetric oscillation of adherent targeted ultrasound contrast agents. <i>Applied Physics Letters</i> , 2005, 87, 134103. | 1.5 | 77 |
| 62 | Selective imaging of adherent targeted ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2007, 52, 2055-2072. | 1.6 | 77 |
| 63 | A swept-scanning mode for estimation of blood velocity in the microvasculature. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1998, 45, 1437-1440. | 1.7 | 76 |
| 64 | Dynamic microPET imaging of ultrasound contrast agents and lipid delivery. <i>Journal of Controlled Release</i> , 2008, 131, 160-166. | 4.8 | 75 |
| 65 | Ultrasound Radiation Force Modulates Ligand Availability on Targeted Contrast Agents. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00016. | 0.7 | 74 |
| 66 | ⁶⁴ Cu-Labeled LyP-1-Dendrimer for PET-CT Imaging of Atherosclerotic Plaque. <i>Bioconjugate Chemistry</i> , 2014, 25, 231-239. | 1.8 | 74 |
| 67 | 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, 2002-2012. | 2.5 | 73 |
| 68 | Microbubble oscillation in tubes with diameters of 12, 25, and 195 microns. <i>Applied Physics Letters</i> , 2006, 88, 033902. | 1.5 | 71 |
| 69 | 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, 1384-1399. | 1.7 | 69 |
| 70 | Contrast-enhanced US of Microcirculation of Superficially Implanted Tumors in Rats. <i>Radiology</i> , 2003, 229, 439-446. | 3.6 | 66 |
| 71 | Novel Method to Label Solid Lipid Nanoparticles with ⁶⁴ Cu for Positron Emission Tomography Imaging. <i>Bioconjugate Chemistry</i> , 2011, 22, 808-818. | 1.8 | 64 |
| 72 | 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. | 3.3 | 61 |

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|----|---|-----|-----------|
| 73 | Insonation of Targeted Microbubbles Produces Regions of Reduced Blood Flow Within Tumor Vasculature. <i>Investigative Radiology</i> , 2012, 47, 398-405. | 3.5 | 60 |
| 74 | Distinct immune signatures in directly treated and distant tumors result from TLR adjuvants and focal ablation. <i>Theranostics</i> , 2018, 8, 3611-3628. | 4.6 | 58 |
| 75 | Ultrasound-Driven Microbubble Oscillation and Translation Within Small Phantom Vessels. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1978-1987. | 0.7 | 57 |
| 76 | Short-duration-focused ultrasound stimulation of Hsp70 expression <i>in vivo</i> . <i>Physics in Medicine and Biology</i> , 2008, 53, 3641-3660. | 1.6 | 57 |
| 77 | Self-assembled 20-nm ⁶⁴ Cu-micelles enhance accumulation in rat glioblastoma. <i>Journal of Controlled Release</i> , 2015, 220, 51-60. | 4.8 | 57 |
| 78 | 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. | 4.8 | 56 |
| 79 | 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-H1017. | 1.5 | 55 |
| 80 | 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, 15, 17582-17601. | 7.3 | 55 |
| 81 | Microbubble tunneling in gel phantoms. <i>Journal of the Acoustical Society of America</i> , 2009, 125, EL183-EL189. | 0.5 | 54 |
| 82 | Quantitative Evaluation of Perfusion and Permeability of Peripheral Tumors Using Contrast-Enhanced Computed Tomography. <i>Investigative Radiology</i> , 2004, 39, 340-349. | 3.5 | 53 |
| 83 | Acoustic response from adherent targeted contrast agents. <i>Journal of the Acoustical Society of America</i> , 2006, 120, EL63-EL69. | 0.5 | 53 |
| 84 | Application of ultrasound to selectively localize nanodroplets for targeted imaging and therapy. <i>Molecular Imaging</i> , 2006, 5, 160-74. | 0.7 | 53 |
| 85 | High-frequency dynamics of ultrasound contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 1981-1991. | 1.7 | 52 |
| 86 | Noninvasive thermometry assisted by a dual-function ultrasound transducer for mild hyperthermia. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 2671-2684. | 1.7 | 51 |
| 87 | Ultrasound molecular imaging of tumor angiogenesis with a neuropilin-1-targeted microbubble. <i>Biomaterials</i> , 2015, 56, 104-113. | 5.7 | 51 |
| 88 | Effect of coupled oscillations on microbubble behavior. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 1678-1690. | 0.5 | 50 |
| 89 | 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, 459-470. | 0.8 | 49 |
| 90 | Enhanced microbubble contrast agent oscillation following 250 kHz insonation. <i>Scientific Reports</i> , 2018, 8, 16347. | 1.6 | 48 |

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| 91 | Immune modulation resulting from MR-guided high intensity focused ultrasound in a model of murine breast cancer. <i>Scientific Reports</i> , 2021, 11, 927. | 1.6 | 48 |
| 92 | Direct Video-Microscopic Observation of the Dynamic Effects of Medical Ultrasound on Ultrasound Contrast Microspheres. <i>Investigative Radiology</i> , 1998, 33, 863-870. | 3.5 | 48 |
| 93 | Enhanced in vivo bioluminescence imaging using liposomal luciferin delivery system. <i>Journal of Controlled Release</i> , 2010, 141, 128-136. | 4.8 | 46 |
| 94 | A sensitive TLRH targeted imaging technique for ultrasonic molecular imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 305-316. | 1.7 | 46 |
| 95 | Liposomal Cu-64 Labeling Method Using Bifunctional Chelators: Poly(ethylene glycol) Spacer and Chelator Effects. <i>Bioconjugate Chemistry</i> , 2010, 21, 1206-1215. | 1.8 | 45 |
| 96 | Contrast-Enhanced Computed Tomography and Ultrasound for the Evaluation of Tumor Blood Flow. <i>Investigative Radiology</i> , 2005, 40, 134-147. | 3.5 | 43 |
| 97 | Efficient array design for sonotherapy. <i>Physics in Medicine and Biology</i> , 2008, 53, 3943-3969. | 1.6 | 43 |
| 98 | Multimodal imaging enables early detection and characterization of changes in tumor permeability of brain metastases. <i>Journal of Controlled Release</i> , 2013, 172, 812-822. | 4.8 | 43 |
| 99 | 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. | 1.7 | 42 |
| 100 | The effect of size on the acoustic response of polymer-shelled contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 439-444. | 0.7 | 42 |
| 101 | An Imaging-Driven Model for Liposomal Stability and Circulation. <i>Molecular Pharmaceutics</i> , 2010, 7, 12-21. | 2.3 | 42 |
| 102 | Microfluidic System for Facilitated Quantification of Nanoparticle Accumulation to Cells Under Laminar Flow. <i>Annals of Biomedical Engineering</i> , 2013, 41, 89-99. | 1.3 | 42 |
| 103 | Assessing the barriers to image-guided drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 1-14. | 3.3 | 42 |
| 104 | Tumor-specific delivery of gemcitabine with activatable liposomes. <i>Journal of Controlled Release</i> , 2019, 309, 277-288. | 4.8 | 42 |
| 105 | Sentinel Node Detection Using Contrast-Enhanced Power Doppler Ultrasound Lymphography. <i>Investigative Radiology</i> , 2003, 38, 358-365. | 3.5 | 41 |
| 106 | Magnetic Resonance Thermometry at 7T for Real-Time Monitoring and Correction of Ultrasound Induced Mild Hyperthermia. <i>PLoS ONE</i> , 2012, 7, e35509. | 1.1 | 41 |
| 107 | Leveraging the power of ultrasound for therapeutic design and optimization. <i>Journal of Controlled Release</i> , 2011, 156, 297-306. | 4.8 | 40 |
| 108 | Cholesterol transport from liposomal delivery vehicles. <i>Biomaterials</i> , 2007, 28, 4311-4320. | 5.7 | 39 |

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|-----|--|-----|-----------|
| 109 | Nonviral ultrasound-mediated gene delivery in small and large animal models. <i>Nature Protocols</i> , 2019, 14, 1015-1026. | 5.5 | 39 |
| 110 | Dynamic imaging of arginine-rich heart-targeted vehicles in a mouse model. <i>Biomaterials</i> , 2008, 29, 1976-1988. | 5.7 | 38 |
| 111 | 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, 155-166. | 2.5 | 38 |
| 112 | Shell waves and acoustic scattering from ultrasound contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001, 48, 409-418. | 1.7 | 37 |
| 113 | Ultrasound assessment of angiogenesis in a matrigel model in rats. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 673-681. | 0.7 | 37 |
| 114 | The pharmacokinetics of Zr-89 labeled liposomes over extended periods in a murine tumor model. <i>Nuclear Medicine and Biology</i> , 2015, 42, 155-163. | 0.3 | 37 |
| 115 | Ultrasound radiation force modulates ligand availability on targeted contrast agents. <i>Molecular Imaging</i> , 2006, 5, 139-47. | 0.7 | 37 |
| 116 | Quantitative contrast enhanced ultrasound and ct assessment of tumor response to antiangiogenic therapy in rats. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 235-245. | 0.7 | 36 |
| 117 | InÂvitro characterization and inÂvivo ultrasound molecular imaging of nucleolin-targeted microbubbles. <i>Biomaterials</i> , 2017, 118, 63-73. | 5.7 | 36 |
| 118 | Toward Personalized Peptide-Based Cancer Nanovaccines: A Facile and Versatile Synthetic Approach. <i>Bioconjugate Chemistry</i> , 2017, 28, 2756-2771. | 1.8 | 36 |
| 119 | Acoustical structured illumination for super-resolution ultrasound imaging. <i>Communications Biology</i> , 2018, 1, 3. | 2.0 | 36 |
| 120 | In situ T-cell transfection by anti-CD3-conjugated lipid nanoparticles leads to T-cell activation, migration, and phenotypic shift. <i>Biomaterials</i> , 2022, 281, 121339. | 5.7 | 36 |
| 121 | Changes in the echoes from ultrasonic contrast agents with imaging parameters. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1998, 45, 1537-1548. | 1.7 | 35 |
| 122 | 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. | 4.8 | 35 |
| 123 | Effect of Alkyl Length of Peptide-Polymer Amphiphile on Cargo Encapsulation Stability and Pharmacokinetics of 3-Helix Micelles. <i>Biomacromolecules</i> , 2014, 15, 2963-2970. | 2.6 | 35 |
| 124 | Radiation-Force Assisted Targeting Facilitates Ultrasonic Molecular Imaging. <i>Molecular Imaging</i> , 2004, 3, 153535002004041. | 0.7 | 34 |
| 125 | Ultrasonic Enhancement of Drug Penetration in Solid Tumors. <i>Frontiers in Oncology</i> , 2013, 3, 204. | 1.3 | 34 |
| 126 | Contrast imaging with chirped excitation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 520-529. | 1.7 | 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. | 1.7 | 32 |
| 128 | Longitudinal Investigation of Permeability and Distribution of Macromolecules in Mouse Malignant Transformation Using PET. Clinical Cancer Research, 2011, 17, 550-559. | 3.2 | 32 |
| 129 | Inhibition of mitochondrial respiration prevents BRAF-mutant melanoma brain metastasis. Acta Neuropathologica Communications, 2019, 7, 55. | 2.4 | 32 |
| 130 | Development of thermosensitive resiquimod-loaded liposomes for enhanced cancer immunotherapy. Journal of Controlled Release, 2021, 330, 1080-1094. | 4.8 | 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. | 1.7 | 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. | 0.5 | 31 |
| 133 | Evaluation of Doxorubicin-Loaded 3-Helix Micelles as Nanocarriers. Biomacromolecules, 2013, 14, 3697-3705. | 2.6 | 31 |
| 134 | Combining activatable nanodelivery with immunotherapy in a murine breast cancer model. Journal of Controlled Release, 2019, 303, 42-54. | 4.8 | 31 |
| 135 | Polymeric perfluorocarbon nanoemulsions are ultrasound-activated wireless drug infusion catheters. Biomaterials, 2019, 206, 73-86. | 5.7 | 30 |
| 136 | Accumulation, internalization and therapeutic efficacy of neuropilin-1-targeted liposomes. Journal of Controlled Release, 2014, 178, 108-117. | 4.8 | 28 |
| 137 | Ultrasound-Mediated Gene Delivery Enhances Tendon Allograft Integration in Mini-Pig Ligament Reconstruction. Molecular Therapy, 2018, 26, 1746-1755. | 3.7 | 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. | 1.7 | 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. | 1.4 | 27 |
| 140 | Design aspects of focal beams from high-intensity arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1590-1602. | 1.7 | 27 |
| 141 | Development of a spherically focused phased array transducer for ultrasonic image-guided hyperthermia. Physics in Medicine and Biology, 2016, 61, 5275-5296. | 1.6 | 27 |
| 142 | CpG expedites regression of local and systemic tumors when combined with activatable nanodelivery. Journal of Controlled Release, 2015, 220, 253-264. | 4.8 | 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. | 0.7 | 25 |

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|-----|--|-----|-----------|
| 145 | Ultrasonic mapping of the microvasculature: signal alignment. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 809-824. | 0.7 | 25 |
| 146 | High-Resolution Functional Vascular Assessment With Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 1263-1275. | 5.4 | 25 |
| 147 | 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, 284-292. | 1.3 | 25 |
| 148 | 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. | 1.1 | 25 |
| 149 | Motion Corrected Cadence CPS Ultrasound for Quantifying Response to Vasoactive Drugs in a Rat Kidney Model. <i>Urology</i> , 2009, 74, 675-681. | 0.5 | 24 |
| 150 | The cargo of CRPPR-conjugated liposomes crosses the intact murine cardiac endothelium. <i>Journal of Controlled Release</i> , 2012, 163, 10-17. | 4.8 | 24 |
| 151 | Ultrasound ablation enhances drug accumulation and survival in mammary carcinoma models. <i>Journal of Clinical Investigation</i> , 2015, 126, 99-111. | 3.9 | 24 |
| 152 | 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, 4614-4624. | 3.1 | 23 |
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