F Stuart Foster Foster

List of Publications by Citations

183 papers	8,972 citations	51 h-index	90 g-index
201 ext. papers	10,341 ext. citations	4.3 avg, IF	5.77 L-index

#	Paper	IF	Citations
183	Clinical use of ultrasound biomicroscopy. *Ophthalmology*, **1991**, 98, 287-95	7.3	572
182	Therapy-induced acute recruitment of circulating endothelial progenitor cells to tumors. *Science*, **2006**, 313, 1785-7	33.3	505
181	Ultrasound biomicroscopy of anterior segment structures in normal and glaucomatous eyes. *American Journal of Ophthalmology*, **1992**, 113, 381-9	4.9	430
180	Foxo3 circular RNA promotes cardiac senescence by modulating multiple factors associated with stress and senescence responses. *European Heart Journal*, **2017**, 38, 1402-1412	9.5	403
179	Subsurface ultrasound microscopic imaging of the intact eye. *Ophthalmology*, **1990**, 97, 244-50	7.3	343
178	Ultrasound biomicroscopy in plateau iris syndrome. *American Journal of Ophthalmology*, **1992**, 113, 390-5	4.9	240
177	Frequency dependence of ultrasound attenuation and backscatter in breast tissue. *Ultrasound in Medicine and Biology*, **1986**, 12, 795-808	3.5	192
176	Biogenic gas nanostructures as ultrasonic molecular reporters. *Nature Nanotechnology*, **2014**, 9, 311-6	28.7	169
175	Ultrasound biomicroscopy of anterior segment tumors. *Ophthalmology*, **1992**, 99, 1220-8	7.3	159
174	Evaluation of tumor angiogenesis with US: imaging, Doppler, and contrast agents. *Academic Radiology*, **2000**, 7, 824-39	4.3	151
173	Ultrasound transducers for pulse-echo medical imaging. *IEEE Transactions on Biomedical Engineering*, **1983**, 30, 453-81	5	149
172	Targeted anti-vascular endothelial growth factor receptor-2 therapy leads to short-term and long-term impairment of vascular function and increase in tumor hypoxia. *Cancer Research*, **2006**, 66, 3639-48	10.1	140
171	Development and initial application of a fully integrated photoacoustic micro-ultrasound system. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2013**, 60, 888-97	3.2	138
170	A new 15-50 MHz array-based micro-ultrasound scanner for preclinical imaging. *Ultrasound in Medicine and Biology*, **2009**, 35, 1700-8	3.5	132
169	Transient fields of concave annular arrays. *Ultrasonic Imaging*, **1981**, 3, 37-61	1.9	131
168	Characterization of submicron phase-change perfluorocarbon droplets for extravascular ultrasound imaging of cancer. *Ultrasound in Medicine and Biology*, **2013**, 39, 475-89	3.5	109
167	Comprehensive transthoracic cardiac imaging in mice using ultrasound biomicroscopy with anatomical confirmation by magnetic resonance imaging. *Physiological Genomics*, **2004**, 18, 232-44	3.6	109

166	High frequency nonlinear B-scan imaging of microbubble contrast agents. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2005**, 52, 65-79	3.2	108
165	Applications for multifrequency ultrasound biomicroscopy in mice from implantation to adulthood. *Physiological Genomics*, **2002**, 10, 113-26	3.6	108
164	Malignant glaucoma. Clinical and ultrasound biomicroscopic features. *Ophthalmology*, **1994**, 101, 1030-5	7.3	106
163	Co-option of Liver Vessels and Not Sprouting Angiogenesis Drives Acquired Sorafenib Resistance in Hepatocellular Carcinoma. *Journal of the National Cancer Institute*, **2016**, 108,	9.7	105
162	High-frequency Doppler ultrasound monitors the effects of antivascular therapy on tumor blood flow. *Cancer Research*, **2002**, 62, 6371-5	10.1	103
161	Acoustic angiography: a new imaging modality for assessing microvasculature architecture. *International Journal of Biomedical Imaging*, **2013**, 2013, 936593	5.2	99
160	Nonlinear contrast imaging with an array-based micro-ultrasound system. *Ultrasound in Medicine and Biology*, **2010**, 36, 2097-106	3.5	88
159	Ultrasonic and viscoelastic properties of skin under transverse mechanical stress in vitro. *Ultrasound in Medicine and Biology*, **1998**, 24, 995-1007	3.5	87
158	Microultrasound Molecular Imaging of Vascular Endothelial Growth Factor Receptor 2 in a Mouse Model of Tumor Angiogenesis. *Molecular Imaging*, **2007**, 6, 7290.2007.00024	3.7	85
157	Micro-ultrasound for preclinical imaging. *Interface Focus*, **2011**, 1, 576-601	3.9	82
156	Hemodynamics in the mouse aortic arch as assessed by MRI, ultrasound, and numerical modeling. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H884-92	5.2	82
155	Developmental changes in left and right ventricular diastolic filling patterns in mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H1563-75	5.2	82
154	High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer: in vitro and in vivo studies. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2010** , 57, 1772-81	3.2	79
153	Ultrahigh frame rate retrospective ultrasound microimaging and blood flow visualization in mice in vivo. *Ultrasound in Medicine and Biology*, **2006**, 32, 683-91	3.5	79
152	Ultrasound for the visualization and quantification of tumor microcirculation. *Cancer and Metastasis Reviews*, **2000**, 19, 131-8	9.6	79
151	High-frequency 3-D color-flow imaging of the microcirculation. *Ultrasound in Medicine and Biology*, **2003**, 29, 39-51	3.5	77
150	Quantification of Microvascular Tortuosity during Tumor Evolution Using Acoustic Angiography. *Ultrasound in Medicine and Biology*, **2015**, 41, 1896-904	3.5	75
149	Fabrication and performance of a 40-MHz linear array based on a 1-3 composite with geometric elevation focusing. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 1888-94	3.2	73

148	The design and fabrication of high frequency poly(vinylidene fluoride) transducers. *Ultrasonic Imaging*, **1989**, 11, 75-94	1.9	73
147	The improvement and quantitative assessment of B-mode images produced by an annular array/cone hybrid. *Ultrasonic Imaging*, **1983**, 5, 195-213	1.9	70
146	Non-invasive high-frequency vascular ultrasound elastography. *Physics in Medicine and Biology*, **2005**, 50, 1611-28	3.8	69
145	Transmission of ultrasound beams through human tissue--focusing and attenuation studies. *Ultrasound in Medicine and Biology*, **1979**, 5, 257-68	3.5	69
144	Computer simulations of speckle in B-scan images. *Ultrasonic Imaging*, **1983**, 5, 308-30	1.9	66
143	Preparation of biogenic gas vesicle nanostructures for use as contrast agents for ultrasound and MRI. *Nature Protocols*, **2017**, 12, 2050-2080	18.8	64
142	Supraciliary effusions and ciliary body thickening after scleral buckling procedures. *Ophthalmology*, **1997**, 104, 433-8	7.3	64
141	Noninvasive ultrasonic measurement of regional and local pulse-wave velocity in mice. *Ultrasound in Medicine and Biology*, **2007**, 33, 1368-75	3.5	64
140	Ultrasound biomicroscopy. High-frequency ultrasound imaging of the eye at microscopic resolution. *Radiologic Clinics of North America*, **1998**, 36, 1047-58	2.3	62
139	Plateau iris syndrome: changes in angle opening associated with dark, light, and pilocarpine administration. *American Journal of Ophthalmology*, **1999**, 128, 288-91	4.9	61
138	Stable J-aggregation enabled dual photoacoustic and fluorescence nanoparticles for intraoperative cancer imaging. *Nanoscale*, **2016**, 8, 12618-25	7.7	59
137	In vivo imaging of embryonic development in the mouse eye by ultrasound biomicroscopy. *Investigative Ophthalmology and Visual Science*, **2003**, 44, 2361-6		54
136	Dual-frequency piezoelectric transducers for contrast enhanced ultrasound imaging. *Sensors*, **2014**, 14, 20825-42	3.8	53
135	Hybrid intravascular ultrasound and optical coherence tomography catheter for imaging of coronary atherosclerosis. *Catheterization and Cardiovascular Interventions*, **2013**, 81, 494-507	2.7	52
134	Performance and characterization of new micromachined high-frequency linear arrays. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2006**, 53, 1719-29	3.2	52
133	Investigating the subharmonic response of individual phospholipid encapsulated microbubbles at high frequencies: a comparative study of five agents. *Ultrasound in Medicine and Biology*, **2012**, 38, 846-63	3.5	51
132	Dynamic measurement of internal solid displacement in articular cartilage using ultrasound backscatter. *Journal of Biomechanics*, **2003**, 36, 443-7	2.9	50
131	An ultrasound biomicroscopic analysis of angle-closure glaucoma secondary to ciliochoroidal effusion in IgA nephropathy. *American Journal of Ophthalmology*, **1993**, 116, 341-5	4.9	48

130	In vivo ultrasound biomicroscopy in developmental biology. *Trends in Biotechnology*, **2002**, 20, S29-S33	15.1	45
129	Ultrasound biomicroscopic imaging of the anterior aspect of peripheral choroidal melanomas. *American Journal of Ophthalmology*, **1997**, 123, 506-14	4.9	44
128	Investigating perfluorohexane particles with high-frequency ultrasound. *Ultrasound in Medicine and Biology*, **2006**, 32, 73-82	3.5	44
127	Three-dimensional ultrasound biomicroscopy for xenograft growth analysis. *Ultrasound in Medicine and Biology*, **2005**, 31, 865-70	3.5	44
126	Preclinical Efficacy of Bevacizumab with CRLX101, an Investigational Nanoparticle-Drug Conjugate, in Treatment of Metastatic Triple-Negative Breast Cancer. *Cancer Research*, **2016**, 76, 4493-503	10.1	43
125	Optical studies of vaporization and stability of fluorescently labelled perfluorocarbon droplets. *Physics in Medicine and Biology*, **2012**, 57, 7205-17	3.8	43
124	Ultrasound-guided left-ventricular catheterization: a novel method of whole mouse perfusion for microimaging. *Laboratory Investigation*, **2004**, 84, 385-9	5.9	43
123	High-frequency, nonlinear flow imaging of microbubble contrast agents. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2005**, 52, 495-502	3.2	43
122	Microultrasound molecular imaging of vascular endothelial growth factor receptor 2 in a mouse model of tumor angiogenesis. *Molecular Imaging*, **2007**, 6, 289-96	3.7	43
121	Ultrasound biomicroscopy in the assessment of anterior scleral disease. *American Journal of Ophthalmology*, **1993**, 116, 628-35	4.9	42
120	Non-Gaussian statistics and temporal variations of the ultrasound signal backscattered by blood at frequencies between 10 and 58 MHz. *Journal of the Acoustical Society of America*, **2004**, 116, 566-77	2.2	41
119	Accommodation and Iridotomy in the Pigment Dispersion Syndrome. *Ophthalmic Surgery Lasers and Imaging Retina*, **1996**, 27, 113-120	1.4	41
118	Innovations in imaging for chronic total occlusions: a glimpse into the future of angiography's blind-spot. *European Heart Journal*, **2008**, 29, 583-93	9.5	40
117	A method for differentiating targeted microbubbles in real time using subharmonic micro-ultrasound and interframe filtering. *Ultrasound in Medicine and Biology*, **2009**, 35, 1564-73	3.5	39
116	Experimental characterization of fundamental and second harmonic beams for a high-frequency ultrasound transducer. *Ultrasound in Medicine and Biology*, **2002**, 28, 635-46	3.5	39
115	Acoustic Behavior of Halobacterium salinarum Gas Vesicles in the High-Frequency Range: Experiments and Modeling. *Ultrasound in Medicine and Biology*, **2017**, 43, 1016-1030	3.5	38
114	Interstitial ultrasound heating applicator for MR-guided thermal therapy. *Physics in Medicine and Biology*, **2001**, 46, 3133-45	3.8	38
113	Acoustic Fields of Conical Radiators. *IEEE Transactions on Sonics and Ultrasonics*, **1982**, 29, 83-91		38

112	Diagnosis of Traumatic Cyclodialysis by Ultrasound Biomicroscopy. *Ophthalmic Surgery Lasers and Imaging Retina*, **1996**, 27, 97-99	1.4	38
111	Multifrequency ultrasound transducers for conformal interstitial thermal therapy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2003**, 50, 881-9	3.2	37
110	Abnormal cardiac inflow patterns during postnatal development in a mouse model of Holt-Oram syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 289, H992-H1001	5.2	36
109	Posterior iris bowing in pigmentary dispersion syndrome caused by accommodation. *American Journal of Ophthalmology*, **1994**, 118, 114-6	4.9	35
108	Low-dose metronomic oral dosing of a prodrug of gemcitabine (LY2334737) causes antitumor effects in the absence of inhibition of systemic vasculogenesis. *Molecular Cancer Therapeutics*, **2012** , 11, 680-9	6.1	34
107	Detecting vascular changes in tumour xenografts using micro-ultrasound and micro-ct following treatment with VEGFR-2 blocking antibodies. *Ultrasound in Medicine and Biology*, **2007**, 33, 1259-68	3.5	34
106	Ultrasonic detection and developmental changes in calcification of the placenta during normal pregnancy in mice. *Placenta*, **2005**, 26, 129-37	3.4	33
105	An annular array system for high resolution breast echography. *Ultrasonic Imaging*, **1982**, 4, 1-31	1.9	33
104	Functional Flow Patterns and Static Blood Pooling in Tumors Revealed by Combined Contrast-Enhanced Ultrasound and Photoacoustic Imaging. *Cancer Research*, **2016**, 76, 4320-31	10.1	32
103	More Than Bubbles: Creating Phase-Shift Droplets from Commercially Available Ultrasound Contrast Agents. *Ultrasound in Medicine and Biology*, **2017**, 43, 531-540	3.5	32
102	Quantitation of hemodynamic function during developmental vascular regression in the mouse eye. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 2231-7		31
101	The design and characterization of short pulse ultrasound transducers. *Ultrasonics*, **1978**, 16, 116-122	3.5	31
100	Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. *Ultrasound in Medicine and Biology*, **2016**, 42, 769-81	3.5	30
99	Aortic regurgitation dramatically alters the distribution of atherosclerotic lesions and enhances atherogenesis in mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 1181-8	9.4	29
98	Ultrasound biomicroscopy in glaucoma. *Acta Ophthalmologica*, **1992**, 70, 7-9	3.7	28
97	Golay pulse encoding for microbubble contrast imaging in ultrasound. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 2082-90	3.2	27
96	Thermal assessment of 40-MHz pulsed Doppler ultrasound in human eye. *Ultrasound in Medicine and Biology*, **2005**, 31, 565-73	3.5	27
95	High-frequency subharmonic pulsed-wave Doppler and color flow imaging of microbubble contrast agents. *Ultrasound in Medicine and Biology*, **2008**, 34, 1139-51	3.5	25

94	Feasibility of linear arrays for interstitial ultrasound thermal therapy. *Medical Physics*, **2000**, 27, 1281-6	4.4	25
93	Ultrasonic characterization of selected renal tissues. *Ultrasound in Medicine and Biology*, **1989**, 15, 241-53	3.5	25
92	Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis. *Angiogenesis*, **2014**, 17, 641-59	10.6	24
91	Catching bubbles: targeting ultrasound microbubbles using bioorthogonal inverse-electron-demand Diels-Alder reactions. *Angewandte Chemie - International Edition*, **2014**, 53, 6459-63	16.4	24
90	Intracellular growth of nanoscale perfluorocarbon droplets for enhanced ultrasound-induced phase-change conversion. *Ultrasound in Medicine and Biology*, **2012**, 38, 1799-810	3.5	24
89	Simulation of B-scan images from two-dimensional transducer arrays: Part I Methods and quantitative contrast measurements. *Ultrasonic Imaging*, **1992**, 14, 323-343	1.9	24
88	Quantitative contrast measurements in B-mode images comparison between experiment and theory. *Ultrasound in Medicine and Biology*, **1986**, 12, 197-208	3.5	23
87	Image-Guided Ultrasound Characterization of Volatile Sub-Micron Phase-Shift Droplets in the 20-40 MHz Frequency Range. *Ultrasound in Medicine and Biology*, **2016**, 42, 795-807	3.5	22
86	Acoustic and kinetic behaviour of definity in mice exposed to high frequency ultrasound. *Ultrasound in Medicine and Biology*, **2009**, 35, 296-307	3.5	22
85	Nonlinear emission from individual bound microbubbles at high frequencies. *Ultrasound in Medicine and Biology*, **2010**, 36, 313-24	3.5	22
84	Radial modulation imaging of microbubble contrast agents at high frequency. *Ultrasound in Medicine and Biology*, **2008**, 34, 949-62	3.5	22
83	Subharmonic, non-linear fundamental and ultraharmonic imaging of microbubble contrast at high frequencies. *Ultrasound in Medicine and Biology*, **2015**, 41, 486-97	3.5	21
82	Developmental changes in integrated ultrasound backscatter from embryonic blood in vivo in mice at high US frequency. *Ultrasound in Medicine and Biology*, **2004**, 30, 1307-19	3.5	21
81	Endoglin and activin receptor-like kinase 1 heterozygous mice have a distinct pulmonary and hepatic angiogenic profile and response to anti-VEGF treatment. *Angiogenesis*, **2014**, 17, 129-46	10.6	17
80	Fabrication and performance of high-frequency composite transducers with triangular-pillar geometry. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 827-36	3.2	17
79	Ultrasound Biomicroscopy. *Ultrasound Clinics*, **2008**, 3, 185-194		17
78	A model for reflectivity enhancement due to surface bound submicrometer particles. *Ultrasound in Medicine and Biology*, **2006**, 32, 1247-55	3.5	17
77	In vivo assessment of postnatal murine ocular development by ultrasound biomicroscopy. *Current Eye Research*, **2005**, 30, 45-51	2.9	17

76	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. *Ultrasound in Medicine and Biology*, **2019**, 45, 2525-2539	3.5	16
75	Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. *Molecular Imaging and Biology*, **2017**, 19, 194-202	3.8	16
74	Development of a 3 French Dual-Frequency Intravascular Ultrasound Catheter. *Ultrasound in Medicine and Biology*, **2018**, 44, 251-266	3.5	16
73	The effect of binding on the subharmonic emissions from individual lipid-encapsulated microbubbles at transmit frequencies of 11 and 25 MHz. *Ultrasound in Medicine and Biology*, **2013**, 39, 345-59	3.5	15
72	Denoising of Contrast-Enhanced Ultrasound Cine Sequences Based on a Multiplicative Model. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 1969-80	5	14
71	Superharmonic Ultrasound for Motion-Independent Localization Microscopy: Applications to Microvascular Imaging From Low to High Flow Rates. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 957-967	3.2	14
70	Ultrasound biomicroscopic imaging of the effects of YAG laser cycloablation in postmortem eyes and living patients. *Ophthalmology*, **1995**, 102, 334-41	7.3	14
69	Ultrasound characterization of coronary artery wall in vitro using temperature-dependent wave speed. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2003**, 50, 1474-85	3.2	13
68	Breast imaging with a conical transducer/annular array hybrid scanner. *Ultrasound in Medicine and Biology*, **1983**, 9, 151-64	3.5	13
67	Artifactual echoes in B-mode images due to multiple scattering. *Ultrasound in Medicine and Biology*, **1985**, 11, 99-111	3.5	13
66	High Resolution Ultrasound Superharmonic Perfusion Imaging: In Vivo Feasibility and Quantification of Dynamic Contrast-Enhanced Acoustic Angiography. *Annals of Biomedical Engineering*, **2017**, 45, 939-948	4.7	12
65	VEGFR2-targeted molecular imaging in the mouse embryo: an alternative to the tumor model. *Ultrasound in Medicine and Biology*, **2014**, 40, 389-99	3.5	12
64	Quantification of blood flow and volume in arterioles and venules of the rat cerebral cortex using functional micro-ultrasound. *NeuroImage*, **2012**, 63, 1030-7	7.9	12
63	The synthesis, magnetic purification and evaluation of 99mTc-labeled microbubbles. *Nuclear Medicine and Biology*, **2011**, 38, 1111-8	2.1	12
62	Nonlinear ultrasound propagation through layered liquid and tissue-equivalent media: computational and experimental results at high frequency. *Physics in Medicine and Biology*, **2006**, 51, 5809-24	3.8	12
61	Biological effects of high-frequency ultrasound exposure during mouse organogenesis. *Ultrasound in Medicine and Biology*, **2004**, 30, 1223-32	3.5	12
60	Simulation of B-scan images from two-dimensional transducer arrays: Part II--Comparisons between linear and two-dimensional phased arrays. *Ultrasonic Imaging*, **1992**, 14, 344-53	1.9	12
59	Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry. *PLoS ONE*, **2017**, 12, e0176958	3.7	11

58	Functional micro-ultrasound imaging of rodent cerebral hemodynamics. *NeuroImage*, **2011**, 58, 100-8	7.9	11
57	Hybrid dual frequency transducer and Scanhead for micro-ultrasound imaging **2009**,		11
56	Reflection from bound microbubbles at high ultrasound frequencies. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 536-45	3.2	11
55	Interframe clutter filtering for high frequency flow imaging. *Ultrasound in Medicine and Biology*, **2007**, 33, 591-600	3.5	11
54	Cylindrical transducer scatter scanner. *Journal of the Acoustical Society of America*, **1980**, 68, 85-92	2.2	11
53	Tumor Contrast Imaging with Gas Vesicles by Circumventing the Reticuloendothelial System. *Ultrasound in Medicine and Biology*, **2020**, 46, 359-368	3.5	11
52	In vivo Biodistribution of Radiolabeled Acoustic Protein Nanostructures. *Molecular Imaging and Biology*, **2018**, 20, 230-239	3.8	10
51	Ultrasound and Infrared-Based Imaging Modalities for Diagnosis and Management of Cutaneous Diseases. *Frontiers in Medicine*, **2018**, 5, 115	4.9	10
50	High-Frequency Micro-Ultrasound Imaging and Optical Topographic Imaging for Spinal Surgery: Initial Experiences. *Ultrasound in Medicine and Biology*, **2018**, 44, 2379-2387	3.5	9
49	In vitro and in vivo comparison of three different intravascular ultrasound catheter designs. *Catheterization and Cardiovascular Interventions*, **2001**, 52, 382-92	2.7	9
48	High Frequency Ultrasound Scanning of the Arterial Wall. *Developments in Cardiovascular Medicine*, **1993**, 91-108		9
47	A novel, hands-free ultrasound patch for continuous monitoring of quantitative Doppler in the carotid artery. *Scientific Reports*, **2021**, 11, 7780	4.9	9
46	Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery. *Molecular Imaging and Biology*, **2020**, 22, 324-334	3.8	9
45	Effect of triangular pillar geometry on high- frequency piezocomposite transducers. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2010**, 57, 957-68	3.2	8
44	Micro-ultrasound takes off (In the biological sciences) **2008**,		8
43	Transgenic expression of Angiopoietin 1 in the liver leads to changes in lymphatic and blood vessel architecture. *Biochemical and Biophysical Research Communications*, **2006**, 345, 1299-307	3.4	8
42	Design and fabrication of ultrafine piezoelectric composites. *Ultrasonic Imaging*, **2005**, 27, 54-64	1.9	7
41	2□ piezoelectric composites with high density and fine scale fabricated by interdigital pair bonding. *Applied Physics Letters*, **1999**, 75, 3390-3392	3.4	7

40	Correction of phase aberrations for sectored annular array ultrasound transducers. *Ultrasound in Medicine and Biology*, **1993**, 19, 763-76	3.5	7
39	Clinical performance of a cone/annular array ultrasound breast scanner. *Ultrasound in Medicine and Biology*, **1990**, 16, 361-74	3.5	7
38	Thermal assessment of 40-MHz ultrasound at soft tissue-bone interfaces. *Ultrasound in Medicine and Biology*, **2004**, 30, 665-73	3.5	6
37	Combined frequency domain photoacoustic and ultrasound imaging for intravascular applications. *Biomedical Optics Express*, **2016**, 7, 4441-4449	3.5	6
36	Femtosecond photoacoustics: integrated two-photon fluorescence and photoacoustic microscopy **2010**,		5
35	In vivo imaging of cerebral hemodynamics using high-frequency micro-ultrasound. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5495	1.2	5
34	High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer in-vitro and in-vivo studies **2009**,		5
33	Ultrasonic fields of a convex semispherical transducer. *Journal of the Acoustical Society of America*, **1993**, 94, 1923-1929	2.2	5
32	Investigation of micro-ultrasound for microvessel imaging in a model of chronic total occlusion. *Ultrasonic Imaging*, **2007**, 29, 167-81	1.9	4
31	Contrast-enhanced molecular ultrasound differentiates endoglin genotypes in mouse embryos. *Angiogenesis*, **2015**, 18, 69-81	10.6	3
30	30/80 MHz Bidirectional Dual-Frequency IVUS Feasibility Evaluated In Vivo and for Stent Imaging. *Ultrasound in Medicine and Biology*, **2020**, 46, 2104-2112	3.5	3
29	In vivo feasibility study of ultrasound potentiated collagenase therapy of chronic total occlusions. *Ultrasonics*, **2014**, 54, 20-4	3.5	3
28	The implementation of acoustic angiography for microvascular and angiogenesis imaging. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4283-5	0.9	3
27	Microultrasound and its application to longitudinal studies of mouse eye development and disease. *Cold Spring Harbor Protocols*, **2012**, 2012, 494-503	1.2	3
26	Frequency-domain differential photoacoustic radar: theory and simulation for ultra-sensitive cholesterol imaging **2019**,		3
25	PLATEAU IRIS SYNDROME: ULTRASOUND BIOMICROSCOPIC AND HISTOLOGIC STUDY. *Ophthalmic Surgery Lasers and Imaging Retina*, **1993**, 24, 129-131	1.4	3
24	Immune checkpoint inhibitor-related alopecia: Insight into the pathophysiology utilizing non-invasive diagnostic techniques. *Journal of Dermatology*, **2019**, 46, e152-e153	1.6	3
23	Development of a high frequency single-element ultrasound needle transducer for anesthesia delivery **2017**,		2

22	Characterization of an intraluminal differential frequency-domain photoacoustics system **2016**,		2
21	Design of a Subtarsal Ultrasonic Transducer for Mild Hyperthermia Treatment of Dry Eye Disease. *Ultrasound in Medicine and Biology*, **2016**, 42, 232-42	3.5	2
20	Catching Bubbles: Targeting Ultrasound Microbubbles Using Bioorthogonal Inverse-Electron-Demand Diels–Alder Reactions. *Angewandte Chemie*, **2014**, 126, 6577-6581	3.6	2
19	Design and fabrication of a low-frequency (1-3 MHz) ultrasound transducer for accurate placement of screw implants in the spine **2014**,		2
18	Contrast imaging in mouse embryos using high-frequency ultrasound. *Journal of Visualized Experiments*, **2015**,	1.6	2
17	Radiation force-enhanced targeted imaging and near real-time molecular imaging using a dual-frequency high-resolution transducer: In-vitro and in-vivo results **2009**,		2
16	Optical fluorescence studies of perfluorocarbon droplet vaporization **2011**,		2
15	Effects of aggregation of red cells and linear velocity gradients on the correlation-based method for quantitative IVUS blood flow at 20 MHz. *Ultrasound in Medicine and Biology*, **2004**, 30, 205-14	3.5	2
14	The use of ultrasound-stimulated contrast agents as an adjuvant for collagenase therapy in chronic total occlusions. *EuroIntervention*, **2014**, 10, 484-93	3.1	2
13	Ultra high-frequency ultrasound with seventy-MHz transducer in hair disorders: Development of a novel noninvasive diagnostic methodology. *Journal of Dermatological Science*, **2021**, 102, 167-176	4.3	2
12	Implementation of a Novel 288-Element Dual-Frequency Array for Acoustic Angiography: In Vitro and In Vivo Characterization. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, 68, 2657-2666	3.2	2
11	In Vivo Endoluminal Ultrasound Biomicroscopy and Endoscopy of Inflamed Rat Esophagus. *Ultrasound in Medicine and Biology*, **2016**, 42, 2687-2696	3.5	1
10	The application of acoustic angiography to assess the progression of angiogenesis in a spontaneous mouse model of breast cancer **2016**,		1
9	Molecular acoustic angiography: Demonstration of in vivo feasibility for high resolution superharmonic ultrasound molecular imaging **2015**,		1
8	A new transducer receive transfer function calibration method: application to microbubble backscattering cross-section measurements at high frequency. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2011**, 58, 1159-68	3.2	1
7	Functional micro-ultrasound imaging of rodent cerebral hemodynamics **2011**,		1
6	An Ultrasound Biomicroscopic Dark-Room Provocative Test. *Ophthalmic Surgery Lasers and Imaging Retina*, **1995**, 26, 253-255	1.4	1
5	Enhanced Depth of Field Acoustic Angiography with a Prototype 288-element Dual-Frequency Array **2019**,		1

4	Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography **2019**,		1
3	Characterization of an Array-Based Dual-Frequency Transducer for Superharmonic Contrast Imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, 68, 2419-2431	3.2	1
2	High Frequency Ultrasound for the Visualization and Quantification of the Microcirculation293-312		0
1	Imaging of Heart, Muscle, Vessels257-275		