F Stuart Foster Foster

List of Publications by Year
in descending order

197	11,161	31902	33814
papers	citations	53 h-index	99 g-index

201	201	201	8538
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clinical Use of Ultrasound Biomicroscopy. Ophthalmology, 1991, 98, 287-295.	2.5	682
2	Therapy-Induced Acute Recruitment of Circulating Endothelial Progenitor Cells to Tumors. Science, 2006, 313, 1785-1787.	6.0	543
3	Foxo3 circular RNA promotes cardiac senescence by modulating multiple factors associated with stress and senescence responses. European Heart Journal, 2017, 38, ehw001.	1.0	510
4	Ultrasound Biomicroscopy of Anterior Segment Structures in Normal and Glaucomatous Eyes. American Journal of Ophthalmology, 1992, 113, 381-389.	1.7	481
5	Subsurface Ultrasound Microscopic Imaging of the Intact Eye. Ophthalmology, 1990, 97, 244-250.	2.5	396
6	Ultrasound Biomicroscopy in Plateau Iris Syndrome. American Journal of Ophthalmology, 1992, 113, 390-395.	1.7	282
7	Biogenic gas nanostructures as ultrasonic molecular reporters. Nature Nanotechnology, 2014, 9, 311-316.	15.6	260
8	Frequency dependence of ultrasound attenuation and backscatter in breast tissue. Ultrasound in Medicine and Biology, 1986, 12, 795-808.	0.7	238
9	Ultrasound Transducers for Pulse-Echo Medical Imaging. IEEE Transactions on Biomedical Engineering, 1983, BME-30, 453-481.	2.5	200
10	Ultrasound Biomicroscopy of Anterior Segment Tumors. Ophthalmology, 1992, 99, 1220-1228.	2.5	186
11	Evaluation of tumor angiogenesis with US: Imaging, Doppler, and contrast agents. Academic Radiology, 2000, 7, 824-839.	1.3	185
12	Development and initial application of a fully integrated photoacoustic micro-ultrasound system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 888-897.	1.7	176
13	A New 15â€“50 MHz Array-Based Micro-Ultrasound Scanner for Preclinical Imaging. Ultrasound in Medicine and Biology, 2009, 35, 1700-1708.	0.7	175
14	Transient Fields of Concave Annular Arrays. Ultrasonic Imaging, 1981, 3, 37-61.	1.4	170
15	Targeted Antiâ€“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, 3639-3648.	0.4	150
16	Co-option of Liver Vessels and Not Sprouting Angiogenesis Drives Acquired Sorafenib Resistance in Hepatocellular Carcinoma. Journal of the National Cancer Institute, 2016, 108, djw030.	3.0	144
17	High frequency nonlinear B-scan imaging of microbubble contrast agents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 65-79.	1.7	141
18	Characterization of Submicron Phase-change Perfluorocarbon Droplets for Extravascular Ultrasound Imaging of Cancer. Ultrasound in Medicine and Biology, 2013, 39, 475-489.	0.7	140

#	Article	IF	Citations
19	Comprehensive transthoracic cardiac imaging in mice using ultrasound biomicroscopy with anatomical confirmation by magnetic resonance imaging. Physiological Genomics, 2004, 18, 232-244.	1.0	133
20	Malignant Glaucoma. Ophthalmology, 1994, 101, 1030-1035.	2.5	128
21	Acoustic Angiography: A New Imaging Modality for Assessing Microvasculature Architecture. International Journal of Biomedical Imaging, 2013, 2013, 1-9.	3.0	126
22	High-frequency Doppler ultrasound monitors the effects of antivascular therapy on tumor blood flow. Cancer Research, 2002, 62, 6371-5.	0.4	122
23	The Improvement and Quantitative Assessment of B-Mode Images Produced by an Annular Array/Cone Hybrid. Ultrasonic Imaging, 1983, 5, 195-213.	1.4	120
24	Preparation of biogenic gas vesicle nanostructures for use as contrast agents for ultrasound and MRI. Nature Protocols, 2017, 12, 2050-2080.	5.5	116
25	Ultrahigh frame rate retrospective ultrasound microimaging and blood flow visualization in mice in vivo. Ultrasound in Medicine and Biology, 2006, 32, 683-691.	0.7	115
26	Applications for multifrequency ultrasound biomicroscopy in mice from implantation to adulthood. Physiological Genomics, 2002, 10, 113-126.	1.0	110
27	Nonlinear Contrast Imaging with an Array-Based Micro-Ultrasound System. Ultrasound in Medicine and Biology, 2010, 36, 2097-2106.	0.7	108
28	Microultrasound Molecular Imaging of Vascular Endothelial Growth Factor Receptor 2 in a Mouse Model of Tumor Angiogenesis. Molecular Imaging, 2007, 6, 7290.2007.00024.	0.7	105
29	Quantification of Microvascular Tortuosity during Tumor Evolution Using Acoustic Angiography. Ultrasound in Medicine and Biology, 2015, 41, 1896-1904.	0.7	104
30	The design and fabrication of high frequency poly(vinylidene fluoride) transducers. Ultrasonic Imaging, 1989, 11, 75-94.	1.4	101
31	Ultrasonic and viscoelastic properties of skin under transverse mechanical stress in vitro. Ultrasound in Medicine and Biology, 1998, 24, 995-1007.	0.7	99
32	Micro-ultrasound for preclinical imaging. Interface Focus, 2011, 1, 576-601.	1.5	99
33	Developmental changes in left and right ventricular diastolic filling patterns in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H1563-H1575.	1.5	98
34	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, 1772-1781.	1.7	97
35	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-H892.	1.5	96
36	Ultrasound for the visualization and quantification of tumor microcirculation. Cancer and Metastasis Reviews, 2000, 19, 131-138.	2.7	95

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37	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, 1888-1894.	1.7	94
38	High-frequency 3-D color-flow imaging of the microcirculation. Ultrasound in Medicine and Biology, 2003, 29, 39-51.	0.7	90
39	Non-invasive high-frequency vascular ultrasound elastography. Physics in Medicine and Biology, 2005, 50, 1611-1628.	1.6	89
40	Dual-Frequency Piezoelectric Transducers for Contrast Enhanced Ultrasound Imaging. Sensors, 2014, 14, 20825-20842.	2.1	78
41	Supraciliary Effusions and Ciliary Body Thickening after Scleral Buckling Procedures. Ophthalmology, 1997, 104, 433-438.	2.5	77
42	Transmission of ultrasound beams through human tissueâ€"focussing and attenuation studies. Ultrasound in Medicine and Biology, 1979, 5, 257-268.	0.7	76
43	Computer Simulations of Speckle in B-Scan Images. Ultrasonic Imaging, 1983, 5, 308-330.	1.4	76
44	Noninvasive Ultrasonic Measurement of Regional and Local Pulse-Wave Velocity in Mice. Ultrasound in Medicine and Biology, 2007, 33, 1368-1375.	0.7	75
45	ULTRASOUND BIOMICROSCOPY. Radiologic Clinics of North America, 1998, 36, 1047-1058.	0.9	73
46	In Vivo Imaging of Embryonic Development in the Mouse Eye by Ultrasound Biomicroscopy. , 2003, 44, 2361.		73
47	Stable J-aggregation enabled dual photoacoustic and fluorescence nanoparticles for intraoperative cancer imaging. Nanoscale, 2016, 8, 12618-12625.	2.8	73
48	Performance and Characterization of New Micromachined High-Frequency Linear Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1719-1729.	1.7	71
49	Plateau iris syndrome: changes in angle opening associated with dark, light, and pilocarpine administration. American Journal of Ophthalmology, 1999, 128, 288-291.	1.7	67
50	Hybrid intravascular ultrasound and optical coherence tomography catheter for imaging of coronary atherosclerosis. Catheterization and Cardiovascular Interventions, 2013, 81, 494-507.	0.7	66
51	An Ultrasound Biomicroscopic Analysis of Angle-closure Glaucoma Secondary to Ciliochoroidal Effusion in IgA Nephropathy. American Journal of Ophthalmology, 1993, 116, 341-345.	1.7	61
52	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, 846-863.	0.7	61
53	Three-dimensional ultrasound biomicroscopy for xenograft growth analysis. Ultrasound in Medicine and Biology, 2005, 31, 865-870.	0.7	57
54	Preclinical Efficacy of Bevacizumab with CRLX101, an Investigational Nanoparticleâ€"Drug Conjugate, in Treatment of Metastatic Triple-Negative Breast Cancer. Cancer Research, 2016, 76, 4493-4503.	0.4	55

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55	Dynamic measurement of internal solid displacement in articular cartilage using ultrasound backscatter. Journal of Biomechanics, 2003, 36, 443-447.	0.9	54
56	Optical studies of vaporization and stability of fluorescently labelled perfluorocarbon droplets. Physics in Medicine and Biology, 2012, 57, 7205-7217.	1.6	54
57	In vivo ultrasound biomicroscopy in developmental biology. Trends in Biotechnology, 2002, 20, S29-S33.	4.9	53
58	Diagnosis of Traumatic Cyclodialysis by Ultrasound Biomicroscopy. Ophthalmic Surgery Lasers and Imaging Retina, 1996, 27, 97-99.	0.4	53
59	Ultrasound Biomicroscopy in the Assessment of Anterior Scleral Disease. American Journal of Ophthalmology, 1993, 116, 628-635.	1.7	51
60	Ultrasound Biomicroscopic Imaging of the Anterior Aspect of Peripheral Choroidal Melanomas. American Journal of Ophthalmology, 1997, 123, 506-514.	1.7	50
61	Ultrasound-guided left-ventricular catheterization: a novel method of whole mouse perfusion for microimaging. Laboratory Investigation, 2004, 84, 385-389.	1.7	50
62	Acoustic Behavior of Halobacterium salinarum Gas Vesicles in the High-Frequency Range: Experiments and Modeling. Ultrasound in Medicine and Biology, 2017, 43, 1016-1030.	0.7	50
63	An annular array system for high resolution breast echography. Ultrasonic Imaging, 1982, 4, 1-31.	1.4	49
64	High-frequency, nonlinear flow imaging of microbubble contrast agents. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 495-502.	1.7	49
65	Investigating perfluorohexane particles with high-frequency ultrasound. Ultrasound in Medicine and Biology, 2006, 32, 73-82.	0.7	49
66	A Method for Differentiating Targeted Microbubbles in Real Time Using Subharmonic Micro-Ultrasound and Interframe Filtering. Ultrasound in Medicine and Biology, 2009, 35, 1564-1573.	0.7	48
67	Acoustic Fields of Conical Radiators. IEEE Transactions on Sonics and Ultrasonics, 1982, 29, 83-91.	1.0	47
68	Accommodation and Iridotomy in the Pigment Dispersion Syndrome. Ophthalmic Surgery Lasers and Imaging Retina, 1996, 27, 113-120.	0.4	47
69	Microultrasound molecular imaging of vascular endothelial growth factor receptor 2 in a mouse model of tumor angiogenesis. Molecular Imaging, 2007, 6, 289-96.	0.7	47
70	Posterior Iris Bowing in Pigmentary Dispersion Syndrome Caused by Accomodation. American Journal of Ophthalmology, 1994, 118, 114-116.	1.7	46
71	Experimental characterization of fundamental and second harmonic beams for a high-frequency ultrasound transducer. Ultrasound in Medicine and Biology, 2002, 28, 635-646.	0.7	46
72	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, 566-577.	0.5	46

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73	Innovations in imaging for chronic total occlusions: a glimpse into the future of angiography's blind-spot. European Heart Journal, 2008, 29, 583-593.	1.0	46
74	Ultrasound biomicroscopy in glaucoma. Acta Ophthalmologica, 1992, 70, 7-9.	0.6	46
75	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.	1.5	45
76	Multifrequency ultrasound transducers for conformal interstitial thermal therapy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 881-889.	1.7	44
77	Interstitial ultrasound heating applicator for MR-guided thermal therapy. Physics in Medicine and Biology, 2001, 46, 3133-3145.	1.6	43
78	Molecular Acoustic Angiography: A New Technique for High-resolution Superharmonic Ultrasound Molecular Imaging. Ultrasound in Medicine and Biology, 2016, 42, 769-781.	0.7	43
79	More Than Bubbles: Creating Phase-Shift Droplets from Commercially Available Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2017, 43, 531-540.	0.7	41
80	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, 1259-1268.	0.7	40
81	A novel, hands-free ultrasound patch for continuous monitoring of quantitative Doppler in the carotid artery. Scientific Reports, 2021, 11, 7780.	1.6	39
82	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, 680-689.	1.9	38
83	Functional Flow Patterns and Static Blood Pooling in Tumors Revealed by Combined Contrast-Enhanced Ultrasound and Photoacoustic Imaging. Cancer Research, 2016, 76, 4320-4331.	0.4	38
84	The design and characterization of short pulse ultrasound transducers. Ultrasonics, 1978, 16, 116-122.	2.1	36
85	Golay Pulse Encoding for Microbubble Contrast Imaging in Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2082-2090.	1.7	36
86	Ultrasonic detection and developmental changes in calcification of the placenta during normal pregnancy in mice. Placenta, 2005, 26, 129-137.	0.7	35
87	Quantitation of Hemodynamic Function during Developmental Vascular Regression in the Mouse Eye. , 2005, 46, 2231.		35
88	Radial Modulation Imaging of Microbubble Contrast Agents at High Frequency. Ultrasound in Medicine and Biology, 2008, 34, 949-962.	0.7	35
89	Thermal assessment of 40-MHz pulsed Doppler ultrasound in human eye. Ultrasound in Medicine and Biology, 2005, 31, 565-573.	0.7	34
90	Feasibility of linear arrays for interstitial ultrasound thermal therapy. Medical Physics, 2000, 27, 1281-1286.	1.6	32

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91	High-Frequency Subharmonic Pulsed-Wave Doppler and Color Flow Imaging of Microbubble Contrast Agents. Ultrasound in Medicine and Biology, 2008, 34, 1139-1151.	0.7	32
92	Aortic Regurgitation Dramatically Alters the Distribution of Atherosclerotic Lesions and Enhances Atherogenesis in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1181-1188.	1.1	32
93	Ultrasonic characterization of selected renal tissues. Ultrasound in Medicine and Biology, 1989, 15, 241-253.	0.7	31
94	Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis. Angiogenesis, 2014, 17, 641-659.	3.7	31
95	Simulation of B-scan images from two-dimensional transducer arrays: Part I â€" Methods and quantitative contrast measurements. Ultrasonic Imaging, 1992, 14, 323-343.	1.4	29
96	Subharmonic, Non-linear Fundamental and Ultraharmonic Imaging of Microbubble Contrast at High Frequencies. Ultrasound in Medicine and Biology, 2015, 41, 486-497.	0.7	29
97	Image-Guided Ultrasound Characterization of Volatile Sub-Micron Phase-Shift Droplets in the 20â€“40ÂMHz Frequency Range. Ultrasound in Medicine and Biology, 2016, 42, 795-807.	0.7	29
98	Intracellular Growth of Nanoscale Perfluorocarbon Droplets for Enhanced Ultrasound-Induced Phase-Change Conversion. Ultrasound in Medicine and Biology, 2012, 38, 1799-1810.	0.7	28
99	Catching Bubbles: Targeting Ultrasound Microbubbles Using Bioorthogonal Inverseâ€Electronâ€Demand Dielsâ€Alder Reactions. Angewandte Chemie - International Edition, 2014, 53, 6459-6463.	7.2	28
100	Quantitative contrast measurements in B-mode images comparison between experiment and theory. Ultrasound in Medicine and Biology, 1986, 12, 197-208.	0.7	27
101	Acoustic and Kinetic Behaviour of Definity in Mice Exposed to High Frequency Ultrasound. Ultrasound in Medicine and Biology, 2009, 35, 296-307.	0.7	27
102	Nonlinear Emission from Individual Bound Microbubbles at High Frequencies. Ultrasound in Medicine and Biology, 2010, 36, 313-324.	0.7	27
103	Development of a 3 French Dual-Frequency Intravascular Ultrasound Catheter. Ultrasound in Medicine and Biology, 2018, 44, 251-266.	0.7	27
104	Tumor Contrast Imaging with Gas Vesicles by Circumventing the Reticuloendothelial System. Ultrasound in Medicine and Biology, 2020, 46, 359-368.	0.7	26
105	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.	1.7	26
106	Simulation of B-Scan Images from Two-Dimensional Transducer Arrays: Part Ii - Comparisons between Linear and Two-Dimensional Phased Arrays. Ultrasonic Imaging, 1992, 14, 344-353.	1.4	25
107	Developmental changes in integrated ultrasound backscatter from embryonic blood in vivo in mice at high US frequency. Ultrasound in Medicine and Biology, 2004, 30, 1307-1319.	0.7	23
108	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.	1.3	23

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109	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, 129-146.	3.7	22
110	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. Ultrasound in Medicine and Biology, 2019, 45, 2525-2539.	0.7	22
111	Ultrasound Biomicroscopy. Ultrasound Clinics, 2008, 3, 185-194.	0.2	21
112	Fabrication and performance of high-frequency composite transducers with triangular-pillar geometry. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 827-836.	1.7	21
113	Assessment of Molecular Acoustic Angiography for Combined Microvascular and Molecular Imaging in Preclinical Tumor Models. Molecular Imaging and Biology, 2017, 19, 194-202.	1.3	21
114	Functional micro-ultrasound imaging of rodent cerebral hemodynamics. NeuroImage, 2011, 58, 100-108.	2.1	20
115	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, 345-359.	0.7	20
116	Ultrasound characterization of coronary artery wall in vitro using temperature-dependent wave speed. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1474-1485.	1.7	18
117	In VivoAssessment of Postnatal Murine Ocular Development by Ultrasound Biomicroscopy. Current Eye Research, 2005, 30, 45-51.	0.7	18
118	A model for reflectivity enhancement due to surface bound submicrometer particles. Ultrasound in Medicine and Biology, 2006, 32, 1247-1255.	0.7	18
119	Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery. Molecular Imaging and Biology, 2020, 22, 324-334.	1.3	18
120	Quantification of blood flow and volume in arterioles and venules of the rat cerebral cortex using functional micro-ultrasound. NeuroImage, 2012, 63, 1030-1037.	2.1	17
121	Denoising of Contrast-Enhanced Ultrasound Cine Sequences Based on a Multiplicative Model. IEEE Transactions on Biomedical Engineering, 2015, 62, 1969-1980.	2.5	17
122	In vivo Biodistribution of Radiolabeled Acoustic Protein Nanostructures. Molecular Imaging and Biology, 2018, 20, 230-239.	1.3	17
123	Ultrasound Biomicroscopic Imaging of the Effects of YAG Laser Cycloablation in Postmortem Eyes and Living Patients. Ophthalmology, 1995, 102, 334-341.	2.5	16
124	Artifactual echoes in B-mode images due to multiple scattering. Ultrasound in Medicine and Biology, 1985, 11, 99-111.	0.7	15
125	Biological effects of high-frequency ultrasound exposure during mouse organogenesis. Ultrasound in Medicine and Biology, 2004, 30, 1223-1232.	0.7	15
126	Nonlinear ultrasound propagation through layered liquid and tissue-equivalent media: computational and experimental results at high frequency. Physics in Medicine and Biology, 2006, 51, 5809-5824.	1.6	15

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127	The synthesis, magnetic purification and evaluation of 99mTc-labeled microbubbles. Nuclear Medicine and Biology, 2011, 38, 1111-1118.	0.3	15
128	An Ultrasound Biomicroscopic Dark-Room Provocative Test. Ophthalmic Surgery Lasers and Imaging Retina, 1995, 26, 253-255.	0.4	15
129	Interframe Clutter Filtering for High Frequency Flow Imaging. Ultrasound in Medicine and Biology, 2007, 33, 591-600.	0.7	14
130	Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry. PLoS ONE, 2017, 12, e0176958.	1.1	14
131	Ultrasound and Infrared-Based Imaging Modalities for Diagnosis and Management of Cutaneous Diseases. Frontiers in Medicine, 2018, 5, 115.	1.2	14
132	Cylindrical transducer scatter scanner. Journal of the Acoustical Society of America, 1980, 68, 85-92.	0.5	13
133	Breast imaging with a conical transducer/ annular array hybrid scanner. Ultrasound in Medicine and Biology, 1983, 9, 151-164.	0.7	13
134	Reflection from bound microbubbles at high ultrasound frequencies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 536-545.	1.7	13
135	High-Frequency Micro-Ultrasound Imaging and Optical Topographic Imaging for Spinal Surgery: Initial Experiences. Ultrasound in Medicine and Biology, 2018, 44, 2379-2387.	0.7	13
136	In vitro and in vivo comparison of three different intravascular ultrasound catheter designs. Catheterization and Cardiovascular Interventions, 2001, 52, 382-392.	0.7	12
137	Micro-ultrasound takes off (In the biological sciences). , 2008, , .		12
138	VEGFR2-Targeted Molecular Imaging in the Mouse Embryo: AnÂAlternative to the Tumor Model. Ultrasound in Medicine and Biology, 2014, 40, 389-399.	0.7	12
139	Correction of phase aberrations for sectored annular array ultrasound transducers. Ultrasound in Medicine and Biology, 1993, 19, 763-776.	0.7	11
140	Hybrid dual frequency transducer and Scanhead for micro-ultrasound imaging. , 2009, , .		11
141	Effect of triangular pillar geometry on high- frequency piezocomposite transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 957-968.	1.7	11
142	Characterization of an Array-Based Dual-Frequency Transducer for Superharmonic Contrast Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2419-2431.	1.7	11
143	High Frequency Ultrasound Scanning of the Arterial Wall. Developments in Cardiovascular Medicine, 1993, , 91-108.	0.1	11
144	Combined frequency domain photoacoustic and ultrasound imaging for intravascular applications. Biomedical Optics Express, 2016, 7, 4441.	1.5	10

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145	2â€“2 piezoelectric composites with high density and fine scale fabricated by interdigital pair bonding. Applied Physics Letters, 1999, 75, 3390-3392.	1.5	8
146	Design and Fabrication of Ultrafine Piezoelectric Composites. Ultrasonic Imaging, 2005, 27, 54-64.	1.4	8
147	Transgenic expression of Angiopoietin 1 in the liver leads to changes in lymphatic and blood vessel architecture. Biochemical and Biophysical Research Communications, 2006, 345, 1299-1307.	1.0	8
148	30/80 MHz Bidirectional Dual-Frequency IVUS Feasibility Evaluated In Vivo and for Stent Imaging. Ultrasound in Medicine and Biology, 2020, 46, 2104-2112.	0.7	8
149	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.	1.7	8
150	Clinical performance of a cone/annular array ultrasound breast scanner. Ultrasound in Medicine and Biology, 1990, 16, 361-374.	0.7	7
151	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.	1.0	7
152	PLATEAU IRIS SYNDROME: ULTRASOUND BIOMICROSCOPIC AND HISTOLOGIC STUDY. Ophthalmic Surgery Lasers and Imaging Retina, 1993, 24, 129-131.	0.4	7
153	Thermal assessment of 40-MHz ultrasound at soft tissue-bone interfaces. Ultrasound in Medicine and Biology, 2004, 30, 665-673.	0.7	6
154	In Vivo Imaging of Cerebral Hemodynamics Using High-Frequency Micro-Ultrasound. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5495.	0.2	6
155	Ultrasonic fields of a convex semispherical transducer. Journal of the Acoustical Society of America, 1993, 94, 1923-1929.	0.5	5
156	Investigation of Micro-Ultrasound for Microvessel Imaging in a Model of Chronic Total Occlusion. Ultrasonic Imaging, 2007, 29, 167-181.	1.4	5
157	High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer in-vitro and in-vivo studies. , 2009, , .		5
158	Femtosecond photoacoustics: integrated two-photon fluorescence and photoacoustic microscopy. Proceedings of SPIE, 2010, , .	0.8	5
159	Immune checkpoint inhibitorâ€related alopecia: Insight into the pathophysiology utilizing nonâ€invasive diagnostic techniques. Journal of Dermatology, 2019, 46, e152-e153.	0.6	5
160	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, , .		4
161	Microultrasound and Its Application to Longitudinal Studies of Mouse Eye Development and Disease. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot068544.	0.2	4
162	The implementation of acoustic angiography for microvascular and angiogenesis imaging. , 2014, 2014, 4283-5.		4

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163	In vivo feasibility study of ultrasound potentiated collagenase therapy of chronic total occlusions. Ultrasonics, 2014, 54, 20-24.	2.1	4
164	Contrast-enhanced molecular ultrasound differentiates endoglin genotypes in mouse embryos. Angiogenesis, 2015, 18, 69-81.	3.7	4
165	Design of a Subtarsal Ultrasonic Transducer for Mild Hyperthermia Treatment of Dry Eye Disease. Ultrasound in Medicine and Biology, 2016, 42, 232-242.	0.7	4
166	Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography. , 2019, , .		4
167	Quantitative functional assessment of tumour microenvironment using contrast enhanced ultrasound and photoacoustic imaging. , 2013, , .		3
168	The use of ultrasound-stimulated contrast agents as an adjuvant for collagenase therapy in chronic total occlusions. EuroIntervention, 2014, 10, 484-493.	1.4	3
169	Frequency-domain differential photoacoustic radar: theory and simulation for ultra-sensitive cholesterol imaging. , 2019, , .		3
170	Fine Pitch Flexible Printed Circuit Board Patterning for Miniaturized Endoscopic MicroUltrasound Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2785-2797.	1.7	3
171	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, 205-214.	0.7	2
172	High frequency piezo-composite transducer with hexagonal pillars. , 2009, , .		2
173	Optical fluorescence studies of perfluorocarbon droplet vaporization. , 2011, , .		2
174	Design and fabrication of a low-frequency (1-3 MHz) ultrasound transducer for accurate placement of screw implants in the spine. Proceedings of SPIE, 2014, , .	0.8	2
175	Contrast Imaging in Mouse Embryos Using High-frequency Ultrasound. Journal of Visualized Experiments, 2015, , .	0.2	2
176	The application of acoustic angiography to assess the progression of angiogenesis in a spontaneous mouse model of breast cancer. , 2016, , .		2
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