Jeffrey Fowlkes

List of Publications by Citations

174 papers	6,624 citations	46 h-index	77 g-index
216 ext. papers	7,792 ext. citations	3.7 avg, IF	5.57 L-index

#	Paper	IF	Citations
174	Guidelines and good clinical practice recommendations for Contrast Enhanced Ultrasound (CEUS) in the liver - update 2012: A WFUMB-EFSUMB initiative in cooperation with representatives of AFSUMB, AIUM, ASUM, FLAUS and ICUS. *Ultrasound in Medicine and Biology*, **2013**, 39, 187-210	3.5	503
173	Pulsed cavitational ultrasound: a noninvasive technology for controlled tissue ablation (histotripsy) in the rabbit kidney. *Journal of Urology*, **2006**, 175, 734-8	2.5	240
172	Gravity-driven microfluidic particle sorting device with hydrodynamic separation amplification. *Analytical Chemistry*, **2007**, 79, 1369-76	7.8	228
171	Pulsed cavitational ultrasound therapy for controlled tissue homogenization. *Ultrasound in Medicine and Biology*, **2006**, 32, 115-29	3.5	202
170	Controlled ultrasound tissue erosion. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2004**, 51, 726-36	3.2	197
169	Cavitation clouds created by shock scattering from bubbles during histotripsy. *Journal of the Acoustical Society of America*, **2011**, 130, 1888-98	2.2	184
168	Cost-effective assembly of a basic fiber-optic hydrophone for measurement of high-amplitude therapeutic ultrasound fields. *Journal of the Acoustical Society of America*, **2006**, 119, 1432-40	2.2	173
167	Probability of cavitation for single ultrasound pulses applied to tissues and tissue-mimicking materials. *Ultrasound in Medicine and Biology*, **2013**, 39, 449-65	3.5	172
166	On the acoustic vaporization of micrometer-sized droplets. *Journal of the Acoustical Society of America*, **2004**, 116, 272-81	2.2	171
165	Ultrasound biosafety considerations for the practicing sonographer and sonologist. *Journal of Ultrasound in Medicine*, **2009**, 28, 139-50	2.9	164
164	The role of inertial cavitation in acoustic droplet vaporization. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 1006-17	3.2	162
163	Histotripsy methods in mechanical disintegration of tissue: towards clinical applications. *International Journal of Hyperthermia*, **2015**, 31, 145-62	3.7	140
162	Controlled ultrasound tissue erosion: the role of dynamic interaction between insonation and microbubble activity. *Journal of the Acoustical Society of America*, **2005**, 117, 424-35	2.2	139
161	Microbubble-enhanced cavitation for noninvasive ultrasound surgery. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2003**, 50, 1296-304	3.2	130
160	Delivery of chlorambucil using an acoustically-triggered perfluoropentane emulsion. *Ultrasound in Medicine and Biology*, **2010**, 36, 1364-75	3.5	114
159	Delivery of water-soluble drugs using acoustically triggered perfluorocarbon double emulsions. *Pharmaceutical Research*, **2010**, 27, 2753-65	4.5	105
158	Acoustic droplet vaporization threshold: effects of pulse duration and contrast agent. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 933-46	3.2	99

157	In vivo droplet vaporization for occlusion therapy and phase aberration correction. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2002**, 49, 726-38	3.2	99
156	Photoacoustic tomography of joints aided by an Etanercept-conjugated gold nanoparticle contrast agent-an ex vivo preliminary rat study. *Nanotechnology*, **2008**, 19, 095101	3.4	94
155	Effects of acoustic parameters on bubble cloud dynamics in ultrasound tissue erosion (histotripsy). *Journal of the Acoustical Society of America*, **2007**, 122, 229-36	2.2	90
154	American Institute of Ultrasound in Medicine consensus report on potential bioeffects of diagnostic ultrasound: executive summary. *Journal of Ultrasound in Medicine*, **2008**, 27, 503-15	2.9	89
153	Histotripsy beyond the intrinsic cavitation threshold using very short ultrasound pulses: microtripsy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 251-65	3.2	85
152	High speed imaging of bubble clouds generated in pulsed ultrasound cavitational therapy--histotripsy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 2091-101	3.2	84
151	Acoustic droplet vaporization for temporal and spatial control of tissue occlusion: a kidney study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2005**, 52, 1101-10	3.2	81
150	Guidelines and Good Clinical Practice Recommendations for Contrast-Enhanced Ultrasound (CEUS) in the Liver-Update 2020 WFUMB in Cooperation with EFSUMB, AFSUMB, AIUM, and FLAUS. *Ultrasound in Medicine and Biology*, **2020**, 46, 2579-2604	3.5	76
149	Refining histotripsy: defining the parameter space for the creation of nonthermal lesions with high intensity, pulsed focused ultrasound of the in vitro kidney. *Journal of Urology*, **2007**, 178, 672-6	2.5	75
148	Investigation of intensity thresholds for ultrasound tissue erosion. *Ultrasound in Medicine and Biology*, **2005**, 31, 1673-82	3.5	74
147	An efficient treatment strategy for histotripsy by removing cavitation memory. *Ultrasound in Medicine and Biology*, **2012**, 38, 753-66	3.5	72
146	Bubble evolution in acoustic droplet vaporization at physiological temperature via ultra-high speed imaging. *Soft Matter*, **2011**, 7, 4009	3.6	71
145	Histotripsy: minimally invasive technology for prostatic tissue ablation in an in vivo canine model. *Urology*, **2008**, 72, 682-6	1.6	71
144	Rapid elastic image registration for 3-D ultrasound. *IEEE Transactions on Medical Imaging*, **2002**, 21, 1384-94	11.7	67
143	Towards aberration correction of transcranial ultrasound using acoustic droplet vaporization. *Ultrasound in Medicine and Biology*, **2008**, 34, 435-45	3.5	66
142	Histotripsy of rabbit renal tissue in vivo: temporal histologic trends. *Journal of Endourology*, **2007**, 21, 1159-66	2.7	63
141	Determination of scan-plane motion using speckle decorrelation: Theoretical considerations and initial test. *International Journal of Imaging Systems and Technology*, **1997**, 8, 38-44	2.5	58
140	Photoacoustic tomography: a potential new tool for prostate cancer. *Biomedical Optics Express*, **2010**, 1, 1117-1126	3.5	57

139	Quantitative ultrasound backscatter for pulsed cavitational ultrasound therapy- histotripsy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 995-1005	3.2	57
138	Photoacoustic and ultrasound dual-modality imaging of human peripheral joints. *Journal of Biomedical Optics*, **2013**, 18, 10502	3.5	56
137	Dynamics of acoustic droplet vaporization in gas embolotherapy. *Applied Physics Letters*, **2010**, 96, 143702	3.4	55
136	A real-time measure of cavitation induced tissue disruption by ultrasound imaging backscatter reduction. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 569-75	3.2	54
135	Acoustic droplet-hydrogel composites for spatial and temporal control of growth factor delivery and scaffold stiffness. *Acta Biomaterialia*, **2013**, 9, 7399-409	10.8	53
134	Size measurement of tissue debris particles generated from pulsed ultrasound cavitational therapy-histotripsy. *Ultrasound in Medicine and Biology*, **2009**, 35, 245-55	3.5	52
133	Histotripsy fractionation of prostate tissue: local effects and systemic response in a canine model. *Journal of Urology*, **2011**, 185, 1484-9	2.5	50
132	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. *Optics Express*, **2011**, 19, 14335-47	3.3	50
131	Optical and acoustic monitoring of bubble cloud dynamics at a tissue-fluid interface in ultrasound tissue erosion. *Journal of the Acoustical Society of America*, **2007**, 121, 2421-30	2.2	50
130	Combination of digital mammography with semi-automated 3D breast ultrasound. *Technology in Cancer Research and Treatment*, **2004**, 3, 325-34	2.7	50
129	Dimethylformamide as an enhancer of cavitation-induced cell lysis in vitro. *Journal of the Acoustical Society of America*, **1995**, 97, 669-76	2.2	46
128	Initial nucleation site formation due to acoustic droplet vaporization. *Applied Physics Letters*, **2014**, 104, 063703	3.4	43
127	Guidelines and Good Clinical Practice Recommendations for Contrast Enhanced Ultrasound (CEUS) in the Liver - Update 2020 - WFUMB in Cooperation with EFSUMB, AFSUMB, AIUM, and FLAUS. *Ultraschall in Der Medizin*, **2020**, 41, 562-585	3.8	42
126	Microfluidic particle sorting utilizing inertial lift force. *Biomedical Microdevices*, **2011**, 13, 97-105	3.7	40
125	Bubble splitting in bifurcating tubes: a model study of cardiovascular gas emboli transport. *Journal of Applied Physiology*, **2005**, 99, 479-87	3.7	38
124	Cavitation nucleation agents for nonthermal ultrasound therapy. *Journal of the Acoustical Society of America*, **2000**, 107, 3480-6	2.2	38
123	Imaging of joints with laser-based photoacoustic tomography: an animal study. *Medical Physics*, **2006**, 33, 2691-7	4.4	37
122	Photoacoustic spectrum analysis for microstructure characterization in biological tissue: analytical model. *Ultrasound in Medicine and Biology*, **2015**, 41, 1473-80	3.5	36

121	Photoacoustic imaging with a commercial ultrasound system and a custom probe. *Ultrasound in Medicine and Biology*, **2011**, 37, 484-92	3.5	36
120	Spatial control of gas bubbles and their effects on acoustic fields. *Ultrasound in Medicine and Biology*, **2006**, 32, 95-106	3.5	36
119	A new strategy to enhance cavitational tissue erosion using a high-intensity, Initiating sequence. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2006**, 53, 1412-24	3.2	36
118	Spatial variability in acoustic backscatter as an indicator of tissue homogenate production in pulsed cavitational ultrasound therapy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 576-90	3.2	35
117	Microfluidic model of bubble lodging in microvessel bifurcations. *Applied Physics Letters*, **2006**, 89, 244103	3.4	34
116	A cost effective degassing system for use in ultrasonic measurements: The multiple pinhole degassing system. *Journal of the Acoustical Society of America*, **1996**, 99, 3857-3859	2.2	32
115	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. *Scientific Reports*, **2016**, 6, 16937	4.9	29
114	Imaging feedback of histotripsy treatments using ultrasound shear wave elastography. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 1167-81	3.2	29
113	Vector Doppler imaging of a spinning disc ultrasound Doppler phantom. *Ultrasound in Medicine and Biology*, **2006**, 32, 1037-46	3.5	29
112	Design and Characterization of Fibrin-Based Acoustically Responsive Scaffolds for Tissue Engineering Applications. *Ultrasound in Medicine and Biology*, **2016**, 42, 257-71	3.5	28
111	Evaluating thin compression paddles for mammographically compatible ultrasound. *Ultrasound in Medicine and Biology*, **2007**, 33, 472-82	3.5	28
110	An ex vivo study of the correlation between acoustic emission and microvascular damage. *Ultrasound in Medicine and Biology*, **2009**, 35, 1574-86	3.5	26
109	Sound speed estimation using automatic ultrasound image registration. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2004**, 51, 1095-106	3.2	26
108	Acceleration of ultrasound thermal therapy by patterned acoustic droplet vaporization. *Journal of the Acoustical Society of America*, **2014**, 135, 537-44	2.2	25
107	Measurement of volumetric flow. *Journal of Ultrasound in Medicine*, **2006**, 25, 1305-11	2.9	24
106	Characterization of Bioeffects on Endothelial Cells under Acoustic Droplet Vaporization. *Ultrasound in Medicine and Biology*, **2015**, 41, 3241-52	3.5	22
105	Histotripsy homogenization of the prostate: thresholds for cavitation damage of periprostatic structures. *Journal of Endourology*, **2011**, 25, 1531-5	2.7	22
104	A boundary element model of the transport of a semi-infinite bubble through a microvessel bifurcation. *Physics of Fluids*, **2010**, 22, 61902	4.4	22

103	Examining and analyzing subcellular morphology of renal tissue treated by histotripsy. *Ultrasound in Medicine and Biology*, **2011**, 37, 78-86	3.5	21
102	Multi-modality 3D breast imaging with X-Ray tomosynthesis and automated ultrasound. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 1335-8		21
101	Speckle decorrelation flow measurement with B-mode US of contrast agent flow in a phantom and in rabbit kidney. *Radiology*, **1999**, 213, 429-37	20.5	21
100	A bench top experimental model of bubble transport in multiple arteriole bifurcations. *International Journal of Heat and Fluid Flow*, **2005**, 26, 865-872	2.4	20
99	Sonographic evaluation of early-stage breast cancers that undergo neoadjuvant chemotherapy. *Journal of Ultrasound in Medicine*, **2005**, 24, 885-95	2.9	19
98	Guidelines for Cleaning Transvaginal Ultrasound Transducers Between Patients. *Ultrasound in Medicine and Biology*, **2017**, 43, 1076-1079	3.5	18
97	Evolution of acoustically vaporized microdroplets in gas embolotherapy. *Journal of Biomechanical Engineering*, **2012**, 134, 031010	2.1	18
96	A 32 x 32 capacitive micromachined ultrasonic transducer array manufactured in standard CMOS. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 1521-36	3.2	18
95	Suspicious breast lesions: assessment of 3D Doppler US indexes for classification in a test population and fourfold cross-validation scheme. *Radiology*, **2008**, 249, 463-70	20.5	18
94	Breast mass characterization using 3-dimensional automated ultrasound as an adjunct to digital breast tomosynthesis: a pilot study. *Journal of Ultrasound in Medicine*, **2013**, 32, 93-104	2.9	18
93	Controlled delivery of basic fibroblast growth factor (bFGF) using acoustic droplet vaporization stimulates endothelial network formation. *Acta Biomaterialia*, **2019**, 97, 409-419	10.8	17
92	Combined photoacoustic and acoustic imaging of human breast specimens in the mammographic geometry. *Ultrasound in Medicine and Biology*, **2013**, 39, 2176-84	3.5	17
91	Treatment of murine tumors using acoustic droplet vaporization-enhanced high intensity focused ultrasound. *Physics in Medicine and Biology*, **2013**, 58, 6179-91	3.8	17
90	Patterning expression of regenerative growth factors using high intensity focused ultrasound. *Tissue Engineering - Part C: Methods*, **2014**, 20, 769-79	2.9	16
89	Histotripsy of renal implanted VX-2 tumor in a rabbit model: investigation of metastases. *Urology*, **2012**, 80, 724-9	1.6	16
88	Conclusions regarding epidemiology for obstetric ultrasound. *Journal of Ultrasound in Medicine*, **2008**, 27, 637-44	2.9	16
87	Parametric Study of Acoustic Droplet Vaporization Thresholds and Payload Release From Acoustically-Responsive Scaffolds. *Ultrasound in Medicine and Biology*, **2019**, 45, 2471-2484	3.5	15
86	Imaging feedback for histotripsy by characterizing dynamics of acoustic radiation force impulse (ARFI)-induced shear waves excited in a treated volume. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 1137-51	3.2	15

85	Mean volume flow estimation in pulsatile flow conditions. *Ultrasound in Medicine and Biology*, **2009**, 35, 1880-91	3.5	15
84	A Boundary Element Model of Microbubble Sticking and Sliding in the Microcirculation. *International Journal of Heat and Mass Transfer*, **2008**, 51, 5700-5711	4.9	15
83	A tissue-mimicking ultrasound test object using droplet vaporization to create point targets. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2011**, 58, 2013-25	3.2	14
82	Interstitial assessment of aggressive prostate cancer by physio-chemical photoacoustics: An ex vivo study with intact human prostates. *Medical Physics*, **2018**, 45, 4125	4.4	13
81	Effects of contrast agent infusion rates on thresholds for tissue damage produced by single exposures of high-intensity ultrasound. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2005**, 52, 1121-30	3.2	13
80	Microbubble transport through a bifurcating vessel network with pulsatile flow. *Biomedical Microdevices*, **2012**, 14, 131-43	3.7	12
79	American Institute ofUltrasound in Medicine recommendations for contrast-enhanced liver ultrasound imaging clinical trials. *Journal of Ultrasound in Medicine*, **2007**, 26, 705-16	2.9	12
78	Volumetric blood flow in transjugular intrahepatic portosystemic shunt revision using 3-dimensional Doppler sonography. *Journal of Ultrasound in Medicine*, **2015**, 34, 257-66	2.9	11
77	Three-dimensional sonographic measurement of blood volume flow in the umbilical cord. *Journal of Ultrasound in Medicine*, **2012**, 31, 1927-34	2.9	11
76	Potential use of ultrasound speckle tracking for motion management during radiotherapy: preliminary report. *Journal of Ultrasound in Medicine*, **2012**, 31, 469-81	2.9	11
75	Refill model of rabbit kidney vasculature. *Ultrasound in Medicine and Biology*, **2006**, 32, 1331-8	3.5	11
74	Three-dimensional US Fractional Moving Blood Volume: Validation of Renal Perfusion Quantification. *Radiology*, **2019**, 293, 460-468	20.5	10
73	Evaluation of ultrasound tissue damage based on changes in image echogenicity in canine kidney. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2005**, 52, 1111-20	3.2	10
72	Variables controlling contrast generation in a urinary bladder model. *Journal of the Acoustical Society of America*, **1998**, 103, 3706-16	2.2	10
71	Standing wave-assisted acoustic droplet vaporization for single and dual payload release in acoustically-responsive scaffolds. *Ultrasonics Sonochemistry*, **2020**, 66, 105109	8.9	10
70	Spatially-directed cell migration in acoustically-responsive scaffolds through the controlled delivery of basic fibroblast growth factor. *Acta Biomaterialia*, **2020**, 113, 217-227	10.8	9
69	Formation of toroidal bubbles from acoustic droplet vaporization. *Applied Physics Letters*, **2014**, 104, 063706	3.4	9
68	Acoustic microscopy analyses to determine good vs. failed tissue engineered oral mucosa under normal or thermally stressed culture conditions. *Annals of Biomedical Engineering*, **2011**, 39, 44-52	4.7	9

67	Why Are Short Pulses More Efficient in Tissue Erosion Using Pulsed Cavitational Ultrasound Therapy (Histotripsy)? **2010**,		9
66	An in vitro study of the correlation between bubble distribution, acoustic emission, and cell damage by contrast ultrasound. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 589-99	3.2	9
65	The relationship of acoustic emission and pulse-repetition frequency in the detection of gas body stability and cell death. *Ultrasound in Medicine and Biology*, **2006**, 32, 439-47	3.5	9
64	Acoustic Droplet Vaporization in Acoustically Responsive Scaffolds: Effects of Frequency of Excitation, Volume Fraction and Threshold Determination Method. *Ultrasound in Medicine and Biology*, **2019**, 45, 3246-3260	3.5	8
63	Characterization of a reverse-phase perfluorocarbon emulsion for the pulmonary delivery of tobramycin. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*, **2014**, 27, 392-9	3.8	8
62	Comparison of scanning acoustic microscopy and histology images in characterizing surface irregularities among engineered human oral mucosal tissues. *Ultrasound in Medicine and Biology*, **2011**, 37, 1734-42	3.5	8
61	Dual sided automated ultrasound system in the mammographic geometry **2011**,		8
60	Spatial registration of temporally separated whole breast 3D ultrasound images. *Medical Physics*, **2009**, 36, 4288-300	4.4	8
59	Effect of a gel retainment dam on automated ultrasound coverage in a dual-modality breast imaging system. *Journal of Ultrasound in Medicine*, **2010**, 29, 1075-81	2.9	8
58	Ultrasound of the fingers for human identification using biometrics. *Ultrasound in Medicine and Biology*, **2008**, 34, 392-9	3.5	8
57	Stable and transient bubble formation in acoustically-responsive scaffolds by acoustic droplet vaporization: theory and application in sequential release. *Ultrasonics Sonochemistry*, **2021**, 72, 105430	8.9	8
56	Spatiotemporal control of micromechanics and microstructure in acoustically-responsive scaffolds using acoustic droplet vaporization. *Soft Matter*, **2020**, 16, 6501-6513	3.6	7
55	Minimally invasive gas embolization using acoustic droplet vaporization in a rodent model of hepatocellular carcinoma. *Scientific Reports*, **2019**, 9, 11040	4.9	7
54	Characterizing morphology and nonlinear elastic properties of normal and thermally stressed engineered oral mucosal tissues using scanning acoustic microscopy. *Tissue Engineering - Part C: Methods*, **2013**, 19, 345-51	2.9	7
53	Rapid 3D imaging of contrast flow: demonstration of a dual beam technique. *Ultrasound in Medicine and Biology*, **2007**, 33, 915-23	3.5	7
52	Potential of microbubbles for use as point targets in phase aberration correction. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2004**, 51, 1639-48	3.2	7
51	**2010**,		5
50	Generalized shot noise model for time-reversal in multiple-scattering media allowing for arbitrary inputs and windowing. *Journal of the Acoustical Society of America*, **2009**, 125, 3129-40	2.2	5

49	Evaluation of Umbilical Vein Blood Volume Flow in Preeclampsia by Angle-Independent 3D Sonography. *Journal of Ultrasound in Medicine*, **2018**, 37, 1633-1640	2.9	5
48	A Hand-Controlled, 3D Ultrasound Guide and Measurement System. *Acoustical Imaging*, **1997**, 237-242		5
47	Numerical Study of Bubble Area Evolution During Acoustic Droplet Vaporization-Enhanced HIFU Treatment. *Journal of Biomechanical Engineering*, **2017**, 139,	2.1	4
46	Breast ultrasound image improvement by pixel compounding of compression sequence. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2009**, 56, 465-73	3.2	4
45	Histotripsy for the treatment of BPH: evaluation in a chronic canine model **2008**,		4
44	Exploring the Acoustic Parameter Space in Ultrasound Therapy: Defining the Threshold for Cavitational Effects. *AIP Conference Proceedings*, **2007**,	0	4
43	Spatially-directed angiogenesis using ultrasound-controlled release of basic fibroblast growth factor from acoustically-responsive scaffolds. *Acta Biomaterialia*, **2021**, 129, 73-83	10.8	4
42	The effects on thermal lesion shape and size from bubble clouds produced by acoustic droplet vaporization. *BioMedical Engineering OnLine*, **2018**, 17, 163	4.1	4
41	Low-Cost 3-D Flow Estimation of Blood With Clutter. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2017**, 64, 772-784	3.2	3
40	Use of Hydroxyapatite Doping to Enhance Responsiveness of Heat-Inducible Gene Switches to Focused Ultrasound. *Ultrasound in Medicine and Biology*, **2016**, 42, 824-30	3.5	3
39	Real-time elastography-based monitoring of histotripsy tissue fractionation using color Doppler **2012**,		3
38	Local compression in automated breast ultrasound in the mammographic geometry **2010**,		3
37	Non-invasive thrombolysis induced by histotripsy pulsed cavitation ultrasound therapy **2008**,		3
36	Temporal Trends in the Histology of the Rabbit Kidney after Cavitational Tissue Ablation. *AIP Conference Proceedings*, **2007**,	0	3
35	Contrast-enhanced ultrasound: an idea whose time has come. *Journal of Ultrasound in Medicine*, **2007**, 26, 703-4	2.9	3
34	Non-rigid registration of three-dimensional (3D) grayscale and Doppler ultrasound breast images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 91-4		3
33	High-Volume-Rate 3-D Ultrasound Imaging Based on Synthetic Aperture Sequential Beamforming With Chirp-Coded Excitation. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1346-1358	3.2	3
32	Tetris **2019**,		2

31	Three-dimensional US for Quantification of Volumetric Blood Flow: Multisite Multisystem Results from within the Quantitative Imaging Biomarkers Alliance. *Radiology*, **2020**, 296, 662-670	20.5	2
30	Ultrasound Shear Wave Elastography and Doppler Sonography to Assess the Effect of Hydration on Human Kidneys: A Preliminary Observation. *Ultrasound in Medicine and Biology*, **2020**, 46, 1179-1188	3.5	2
29	Combined photoacoustic and ultrasound imaging of human breast in vivo in the mammographic geometry **2013**,		2
28	Non-linear stress-strain measurements of ex vivo produced oral mucosal equivalent (EVPOME) compared to normal oral mucosal and skin tissue. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 286-9	0.9	2
27	Acoustic Backscatter Features Associated with Production of Tissue Homogenate using Pulsed Cavitational Ultrasound Therapy. *AIP Conference Proceedings*, **2006**,	0	2
26	Optical and Acoustic Monitoring of Bubble Dynamics at a Tissue-fluid Interface in Ultrasound Tissue Erosion. *AIP Conference Proceedings*, **2006**,	0	2
25	Characterizing Pulsed Ultrasound Therapy for Production of Cavitationally-Induced Lesions. *AIP Conference Proceedings*, **2005**,	0	2
24	Low Complexity 3D Ultrasound Imaging Using Synthetic Aperture Sequential Beamforming **2016**,		2
23	Coalescence of residual histotripsy cavitation nuclei using low-gain regions of the therapy beam during electronic focal steering. *Physics in Medicine and Biology*, **2018**, 63, 225010	3.8	2
22	Determination of scan-plane motion using speckle decorrelation: Theoretical considerations and initial test **1997**, 8, 38		2
21	Temperature imaging with ultrasonic transmission tomography for treatment control **2017**,		1
20	Partial Volume Effect and Correction for 3-D Color Flow Acquisition of Volumetric Blood Flow. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2019**, 66, 1749-1759	3.2	1
19	Investigation of the mechanism of ARFI-based Color Doppler feedback of histotripsy tissue fractionation **2013**,		1
18	Characterization of acoustic droplet vaporization and inertial cavitation thresholds in acoustically-responsive tissue scaffolds **2014**,		1
17	**2010**,		1
16	The role of inertial cavitation in acoustic droplet vaporization **2008**,		1
15	Photoacoustic tomography of small-animal and human peripheral joints **2008**,		1
14	A Boundary Element Model of Multiple Microcirculatory Bubbles in Cardiovasculature. *International Journal of Emerging Multidisciplinary Fluid Sciences*, **2010**, 2, 143-160		1

13	Ureterovesical junction deformation during urine storage in the bladder and the effect on vesicoureteral reflux. *Journal of Biomechanics*, **2020**, 113, 110123	2.9	1
12	Comparison of Variations Between Spectral Doppler and Gaussian Surface Integration Methods for Umbilical Vein Blood Volume Flow. *Journal of Ultrasound in Medicine*, **2021**, 40, 369-376	2.9	1
11	Determination of scan-plane motion using speckle decorrelation: Theoretical considerations and initial test **1997**, 8, 38		1
10	Error analysis of speed of sound reconstruction in ultrasound limited angle transmission tomography. *Ultrasonics*, **2018**, 88, 174-184	3.5	0
9	Tetris: Using Software/Hardware Co-Design to Enable Handheld, Physics-Limited 3D Plane-Wave Ultrasound Imaging. *IEEE Transactions on Computers*, **2020**, 69, 1209-1220	2.5	0
8	Characterizing the aggressiveness of prostate cancer using an all-optical needle photoacoustic sensing probe: feasibility study. *Biomedical Optics Express*, **2021**, 12, 4873-4888	3.5	0
7	Velocity Vector Imaging to Assess Longitudinal Wall Motion of Adult Carotid Arteries. *Journal of Ultrasound in Medicine*, **2021**, 40, 1195-1207	2.9	0
6	High-frequency ultrasonic imaging of growth and development in manufactured engineered oral mucosal tissue surfaces. *Ultrasound in Medicine and Biology*, **2014**, 40, 2244-51	3.5	
5	A model study of vascular microbubble transport in pulsatile blood flow through bifurcating vessels. *FASEB Journal*, **2009**, 23, 949.12	0.9	
4	On the use of three-dimensional Doppler acquisition for real-time volume flow estimation.. *Journal of the Acoustical Society of America*, **2010**, 128, 2303-2303	2.2	
3	Endothelial bioeffects from acoustic droplet vaporization for gas embolotherapy. *FASEB Journal*, **2012**, 26, 859.14	0.9	
2	The 5:1 rule overestimates the needed tunnel length during ureteral reimplantation. *Neurourology and Urodynamics*, **2021**, 40, 85-94	2.3	
1	FrontEnd Architecture Design for Low-Complexity 3-D Ultrasound Imaging Based on Synthetic Aperture Sequential Beamforming. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2021**, 29, 333-346	2.6	