

Jeffrey Fowlkes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Stable and transient bubble formation in acoustically-responsive scaffolds by acoustic droplet vaporization: theory and application in sequential release. <i>Ultrasonics Sonochemistry</i> , 2021 , 72, 105430	8.9	8
173	Spatially-directed angiogenesis using ultrasound-controlled release of basic fibroblast growth factor from acoustically-responsive scaffolds. <i>Acta Biomaterialia</i> , 2021 , 129, 73-83	10.8	4
172	Characterizing the aggressiveness of prostate cancer using an all-optical needle photoacoustic sensing probe: feasibility study. <i>Biomedical Optics Express</i> , 2021 , 12, 4873-4888	3.5	0
171	The 5:1 rule overestimates the needed tunnel length during ureteral reimplantation. <i>Neurourology and Urodynamics</i> , 2021 , 40, 85-94	2.3	
170	Front-End Architecture Design for Low-Complexity 3-D Ultrasound Imaging Based on Synthetic Aperture Sequential Beamforming. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021 , 29, 333-346	2.6	
169	Velocity Vector Imaging to Assess Longitudinal Wall Motion of Adult Carotid Arteries. <i>Journal of Ultrasound in Medicine</i> , 2021 , 40, 1195-1207	2.9	0
168	Comparison of Variations Between Spectral Doppler and Gaussian Surface Integration Methods for Umbilical Vein Blood Volume Flow. <i>Journal of Ultrasound in Medicine</i> , 2021 , 40, 369-376	2.9	1
167	Spatiotemporal control of micromechanics and microstructure in acoustically-responsive scaffolds using acoustic droplet vaporization. <i>Soft Matter</i> , 2020 , 16, 6501-6513	3.6	7
166	Spatially-directed cell migration in acoustically-responsive scaffolds through the controlled delivery of basic fibroblast growth factor. <i>Acta Biomaterialia</i> , 2020 , 113, 217-227	10.8	9
165	Three-dimensional US for Quantification of Volumetric Blood Flow: Multisite Multisystem Results from within the Quantitative Imaging Biomarkers Alliance. <i>Radiology</i> , 2020 , 296, 662-670	20.5	2
164	Ultrasound Shear Wave Elastography and Doppler Sonography to Assess the Effect of Hydration on Human Kidneys: A Preliminary Observation. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 1179-1188	3.5	2
163	Standing wave-assisted acoustic droplet vaporization for single and dual payload release in acoustically-responsive scaffolds. <i>Ultrasonics Sonochemistry</i> , 2020 , 66, 105109	8.9	10
162	Ureterovesical junction deformation during urine storage in the bladder and the effect on vesicoureteral reflux. <i>Journal of Biomechanics</i> , 2020 , 113, 110123	2.9	1
161	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. <i>Ultraschall in Der Medizin</i> , 2020 , 41, 562-585	3.8	42
160	Tetris: Using Software/Hardware Co-Design to Enable Handheld, Physics-Limited 3D Plane-Wave Ultrasound Imaging. <i>IEEE Transactions on Computers</i> , 2020 , 69, 1209-1220	2.5	0
159	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. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 2579-2604	3.5	76
158	Partial Volume Effect and Correction for 3-D Color Flow Acquisition of Volumetric Blood Flow. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 1749-1759	3.2	1

157	Parametric Study of Acoustic Droplet Vaporization Thresholds and Payload Release From Acoustically-Responsive Scaffolds. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2471-2484	3.5	15
156	Tetris 2019 ,		2
155	Controlled delivery of basic fibroblast growth factor (bFGF) using acoustic droplet vaporization stimulates endothelial network formation. <i>Acta Biomaterialia</i> , 2019 , 97, 409-419	10.8	17
154	Minimally invasive gas embolization using acoustic droplet vaporization in a rodent model of hepatocellular carcinoma. <i>Scientific Reports</i> , 2019 , 9, 11040	4.9	7
153	Three-dimensional US Fractional Moving Blood Volume: Validation of Renal Perfusion Quantification. <i>Radiology</i> , 2019 , 293, 460-468	20.5	10
152	Acoustic Droplet Vaporization in Acoustically Responsive Scaffolds: Effects of Frequency of Excitation, Volume Fraction and Threshold Determination Method. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 3246-3260	3.5	8
151	Error analysis of speed of sound reconstruction in ultrasound limited angle transmission tomography. <i>Ultrasonics</i> , 2018 , 88, 174-184	3.5	0
150	Interstitial assessment of aggressive prostate cancer by physio-chemical photoacoustics: An ex vivo study with intact human prostates. <i>Medical Physics</i> , 2018 , 45, 4125	4.4	13
149	Evaluation of Umbilical Vein Blood Volume Flow in Preeclampsia by Angle-Independent 3D Sonography. <i>Journal of Ultrasound in Medicine</i> , 2018 , 37, 1633-1640	2.9	5
148	Coalescence of residual histotripsy cavitation nuclei using low-gain regions of the therapy beam during electronic focal steering. <i>Physics in Medicine and Biology</i> , 2018 , 63, 225010	3.8	2
147	The effects on thermal lesion shape and size from bubble clouds produced by acoustic droplet vaporization. <i>BioMedical Engineering OnLine</i> , 2018 , 17, 163	4.1	4
146	High-Volume-Rate 3-D Ultrasound Imaging Based on Synthetic Aperture Sequential Beamforming With Chirp-Coded Excitation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1346-1358	3.2	3
145	Guidelines for Cleaning Transvaginal Ultrasound Transducers Between Patients. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1076-1079	3.5	18
144	Temperature imaging with ultrasonic transmission tomography for treatment control 2017 ,		1
143	Low-Cost 3-D Flow Estimation of Blood With Clutter. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 772-784	3.2	3
142	Numerical Study of Bubble Area Evolution During Acoustic Droplet Vaporization-Enhanced HIFU Treatment. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	4
141	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016 , 6, 16937	4.9	29
140	Use of Hydroxyapatite Doping to Enhance Responsiveness of Heat-Inducible Gene Switches to Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 824-30	3.5	3

139	Design and Characterization of Fibrin-Based Acoustically Responsive Scaffolds for Tissue Engineering Applications. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 257-71	3.5	28
138	Low Complexity 3D Ultrasound Imaging Using Synthetic Aperture Sequential Beamforming 2016 ,		2
137	Volumetric blood flow in transjugular intrahepatic portosystemic shunt revision using 3-dimensional Doppler sonography. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 257-66	2.9	11
136	Photoacoustic spectrum analysis for microstructure characterization in biological tissue: analytical model. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1473-80	3.5	36
135	Histotripsy methods in mechanical disintegration of tissue: towards clinical applications. <i>International Journal of Hyperthermia</i> , 2015 , 31, 145-62	3.7	140
134	Characterization of Bioeffects on Endothelial Cells under Acoustic Droplet Vaporization. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 3241-52	3.5	22
133	Imaging feedback for histotripsy by characterizing dynamics of acoustic radiation force impulse (ARFI)-induced shear waves excited in a treated volume. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1137-51	3.2	15
132	High-frequency ultrasonic imaging of growth and development in manufactured engineered oral mucosal tissue surfaces. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 2244-51	3.5	
131	Histotripsy beyond the intrinsic cavitation threshold using very short ultrasound pulses: microtriopsy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 251-65	3.2	85
130	Initial nucleation site formation due to acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014 , 104, 063703	3.4	43
129	Patterning expression of regenerative growth factors using high intensity focused ultrasound. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 769-79	2.9	16
128	Characterization of a reverse-phase perfluorocarbon emulsion for the pulmonary delivery of tobramycin. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2014 , 27, 392-9	3.8	8
127	Acceleration of ultrasound thermal therapy by patterned acoustic droplet vaporization. <i>Journal of the Acoustical Society of America</i> , 2014 , 135, 537-44	2.2	25
126	Formation of toroidal bubbles from acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014 , 104, 063706	3.4	9
125	Characterization of acoustic droplet vaporization and inertial cavitation thresholds in acoustically-responsive tissue scaffolds 2014 ,		1
124	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. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 187-210	3.5	503
123	Probability of cavitation for single ultrasound pulses applied to tissues and tissue-mimicking materials. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 449-65	3.5	172
122	Acoustic droplet-hydrogel composites for spatial and temporal control of growth factor delivery and scaffold stiffness. <i>Acta Biomaterialia</i> , 2013 , 9, 7399-409	10.8	53

121	Investigation of the mechanism of ARFI-based Color Doppler feedback of histotripsy tissue fractionation 2013 ,		1
120	Combined photoacoustic and acoustic imaging of human breast specimens in the mammographic geometry. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 2176-84	3.5	17
119	Combined photoacoustic and ultrasound imaging of human breast in vivo in the mammographic geometry 2013 ,		2
118	Characterizing morphology and nonlinear elastic properties of normal and thermally stressed engineered oral mucosal tissues using scanning acoustic microscopy. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 345-51	2.9	7
117	Treatment of murine tumors using acoustic droplet vaporization-enhanced high intensity focused ultrasound. <i>Physics in Medicine and Biology</i> , 2013 , 58, 6179-91	3.8	17
116	Photoacoustic and ultrasound dual-modality imaging of human peripheral joints. <i>Journal of Biomedical Optics</i> , 2013 , 18, 10502	3.5	56
115	Breast mass characterization using 3-dimensional automated ultrasound as an adjunct to digital breast tomosynthesis: a pilot study. <i>Journal of Ultrasound in Medicine</i> , 2013 , 32, 93-104	2.9	18
114	Microbubble transport through a bifurcating vessel network with pulsatile flow. <i>Biomedical Microdevices</i> , 2012 , 14, 131-43	3.7	12
113	An efficient treatment strategy for histotripsy by removing cavitation memory. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 753-66	3.5	72
112	Histotripsy of renal implanted VX-2 tumor in a rabbit model: investigation of metastases. <i>Urology</i> , 2012 , 80, 724-9	1.6	16
111	Imaging feedback of histotripsy treatments using ultrasound shear wave elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1167-81	3.2	29
110	Real-time elastography-based monitoring of histotripsy tissue fractionation using color Doppler 2012 ,		3
109	Three-dimensional sonographic measurement of blood volume flow in the umbilical cord. <i>Journal of Ultrasound in Medicine</i> , 2012 , 31, 1927-34	2.9	11
108	Evolution of acoustically vaporized microdroplets in gas embolotherapy. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 031010	2.1	18
107	A 32 x 32 capacitive micromachined ultrasonic transducer array manufactured in standard CMOS. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1521-36	3.2	18
106	Potential use of ultrasound speckle tracking for motion management during radiotherapy: preliminary report. <i>Journal of Ultrasound in Medicine</i> , 2012 , 31, 469-81	2.9	11
105	Endothelial bioeffects from acoustic droplet vaporization for gas embolotherapy. <i>FASEB Journal</i> , 2012 , 26, 859.14	0.9	
104	A tissue-mimicking ultrasound test object using droplet vaporization to create point targets. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 2013-25	3.2	14

103	Histotripsy fractionation of prostate tissue: local effects and systemic response in a canine model. <i>Journal of Urology</i> , 2011 , 185, 1484-9	2.5	50
102	Cavitation clouds created by shock scattering from bubbles during histotripsy. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 1888-98	2.2	184
101	Histotripsy homogenization of the prostate: thresholds for cavitation damage of periprostatic structures. <i>Journal of Endourology</i> , 2011 , 25, 1531-5	2.7	22
100	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. <i>Optics Express</i> , 2011 , 19, 14335-47	3.3	50
99	Comparison of scanning acoustic microscopy and histology images in characterizing surface irregularities among engineered human oral mucosal tissues. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1734-42	3.5	8
98	Microfluidic particle sorting utilizing inertial lift force. <i>Biomedical Microdevices</i> , 2011 , 13, 97-105	3.7	40
97	Acoustic microscopy analyses to determine good vs. failed tissue engineered oral mucosa under normal or thermally stressed culture conditions. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 44-52	4.7	9
96	Non-linear stress-strain measurements of ex vivo produced oral mucosal equivalent (EVPOME) compared to normal oral mucosal and skin tissue. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 286-9	0.9	2
95	Bubble evolution in acoustic droplet vaporization at physiological temperature via ultra-high speed imaging. <i>Soft Matter</i> , 2011 , 7, 4009	3.6	71
94	Examining and analyzing subcellular morphology of renal tissue treated by histotripsy. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 78-86	3.5	21
93	Photoacoustic imaging with a commercial ultrasound system and a custom probe. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 484-92	3.5	36
92	Dual sided automated ultrasound system in the mammographic geometry 2011 ,		8
91	Local compression in automated breast ultrasound in the mammographic geometry 2010 ,		3
90	A boundary element model of the transport of a semi-infinite bubble through a microvessel bifurcation. <i>Physics of Fluids</i> , 2010 , 22, 61902	4.4	22
89	Dynamics of acoustic droplet vaporization in gas embolotherapy. <i>Applied Physics Letters</i> , 2010 , 96, 143702	3.4	55
88	Why Are Short Pulses More Efficient in Tissue Erosion Using Pulsed Cavitation Ultrasound Therapy (Histotripsy)? 2010 ,		9
87	Photoacoustic tomography: a potential new tool for prostate cancer. <i>Biomedical Optics Express</i> , 2010 , 1, 1117-1126	3.5	57
86	2010 ,		5

85	2010,			1
84	Effect of a gel retainment dam on automated ultrasound coverage in a dual-modality breast imaging system. <i>Journal of Ultrasound in Medicine</i> , 2010 , 29, 1075-81	2.9		8
83	Delivery of water-soluble drugs using acoustically triggered perfluorocarbon double emulsions. <i>Pharmaceutical Research</i> , 2010 , 27, 2753-65	4.5		105
82	Delivery of chlorambucil using an acoustically-triggered perfluoropentane emulsion. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1364-75	3.5		114
81	A Boundary Element Model of Multiple Microcirculatory Bubbles in Cardiovasculature. <i>International Journal of Emerging Multidisciplinary Fluid Sciences</i> , 2010 , 2, 143-160			1
80	On the use of three-dimensional Doppler acquisition for real-time volume flow estimation.. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 2303-2303	2.2		
79	Generalized shot noise model for time-reversal in multiple-scattering media allowing for arbitrary inputs and windowing. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, 3129-40	2.2		5
78	An ex vivo study of the correlation between acoustic emission and microvascular damage. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1574-86	3.5		26
77	Size measurement of tissue debris particles generated from pulsed ultrasound cavitation therapy-histotripsy. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 245-55	3.5		52
76	Mean volume flow estimation in pulsatile flow conditions. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1880-91	3.5		15
75	The role of inertial cavitation in acoustic droplet vaporization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1006-17	3.2		162
74	Breast ultrasound image improvement by pixel compounding of compression sequence. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 465-73	3.2		4
73	An in vitro study of the correlation between bubble distribution, acoustic emission, and cell damage by contrast ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 589-99	3.2		9
72	Quantitative ultrasound backscatter for pulsed cavitation ultrasound therapy- histotripsy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 995-1005	3.2		57
71	Spatial registration of temporally separated whole breast 3D ultrasound images. <i>Medical Physics</i> , 2009 , 36, 4288-300	4.4		8
70	Ultrasound biosafety considerations for the practicing sonographer and sonologist. <i>Journal of Ultrasound in Medicine</i> , 2009 , 28, 139-50	2.9		164
69	A model study of vascular microbubble transport in pulsatile blood flow through bifurcating vessels. <i>FASEB Journal</i> , 2009 , 23, 949.12	0.9		
68	Photoacoustic tomography of joints aided by an Etanercept-conjugated gold nanoparticle contrast agent-an ex vivo preliminary rat study. <i>Nanotechnology</i> , 2008 , 19, 095101	3.4		94

67	Non-invasive thrombolysis induced by histotripsy pulsed cavitation ultrasound therapy 2008 ,		3
66	Histotripsy for the treatment of BPH: evaluation in a chronic canine model 2008 ,		4
65	Histotripsy: minimally invasive technology for prostatic tissue ablation in an in vivo canine model. <i>Urology</i> , 2008 , 72, 682-6	1.6	71
64	The role of inertial cavitation in acoustic droplet vaporization 2008 ,		1
63	Suspicious breast lesions: assessment of 3D Doppler US indexes for classification in a test population and fourfold cross-validation scheme. <i>Radiology</i> , 2008 , 249, 463-70	20.5	18
62	American Institute of Ultrasound in Medicine consensus report on potential bioeffects of diagnostic ultrasound: executive summary. <i>Journal of Ultrasound in Medicine</i> , 2008 , 27, 503-15	2.9	89
61	Photoacoustic tomography of small-animal and human peripheral joints 2008 ,		1
60	Conclusions regarding epidemiology for obstetric ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2008 , 27, 637-44	2.9	16
59	A Boundary Element Model of Microbubble Sticking and Sliding in the Microcirculation. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5700-5711	4.9	15
58	Ultrasound of the fingers for human identification using biometrics. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 392-9	3.5	8
57	Towards aberration correction of transcranial ultrasound using acoustic droplet vaporization. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 435-45	3.5	66
56	Acoustic droplet vaporization threshold: effects of pulse duration and contrast agent. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 933-46	3.2	99
55	Effects of acoustic parameters on bubble cloud dynamics in ultrasound tissue erosion (histotripsy). <i>Journal of the Acoustical Society of America</i> , 2007 , 122, 229-36	2.2	90
54	Temporal Trends in the Histology of the Rabbit Kidney after Cavitation Tissue Ablation. <i>AIP Conference Proceedings</i> , 2007 ,	0	3
53	Contrast-enhanced ultrasound: an idea whose time has come. <i>Journal of Ultrasound in Medicine</i> , 2007 , 26, 703-4	2.9	3
52	American Institute of Ultrasound in Medicine recommendations for contrast-enhanced liver ultrasound imaging clinical trials. <i>Journal of Ultrasound in Medicine</i> , 2007 , 26, 705-16	2.9	12
51	Evaluating thin compression paddles for mammographically compatible ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 472-82	3.5	28
50	Rapid 3D imaging of contrast flow: demonstration of a dual beam technique. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 915-23	3.5	7

49	Multi-modality 3D breast imaging with X-Ray tomosynthesis and automated ultrasound. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007</i> , 2007, 1335-8		21
48	Optical and acoustic monitoring of bubble cloud dynamics at a tissue-fluid interface in ultrasound tissue erosion. <i>Journal of the Acoustical Society of America, 2007</i> , 121, 2421-30	2.2	50
47	Histotripsy of rabbit renal tissue in vivo: temporal histologic trends. <i>Journal of Endourology, 2007</i> , 21, 1159-66	2.7	63
46	Exploring the Acoustic Parameter Space in Ultrasound Therapy: Defining the Threshold for Cavitational Effects. <i>AIP Conference Proceedings, 2007</i> ,	0	4
45	Spatial variability in acoustic backscatter as an indicator of tissue homogenate production in pulsed cavitational ultrasound therapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007</i> , 54, 576-90	3.2	35
44	A real-time measure of cavitation induced tissue disruption by ultrasound imaging backscatter reduction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007</i> , 54, 569-75	3.2	54
43	Gravity-driven microfluidic particle sorting device with hydrodynamic separation amplification. <i>Analytical Chemistry, 2007</i> , 79, 1369-76	7.8	228
42	Refining histotripsy: defining the parameter space for the creation of nonthermal lesions with high intensity, pulsed focused ultrasound of the in vitro kidney. <i>Journal of Urology, 2007</i> , 178, 672-6	2.5	75
41	High speed imaging of bubble clouds generated in pulsed ultrasound cavitational therapy--histotripsy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007</i> , 54, 2091-101	3.2	84
40	Non-rigid registration of three-dimensional (3D) grayscale and Doppler ultrasound breast images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007</i> , 2007, 91-4		3
39	Spatial control of gas bubbles and their effects on acoustic fields. <i>Ultrasound in Medicine and Biology, 2006</i> , 32, 95-106	3.5	36
38	The relationship of acoustic emission and pulse-repetition frequency in the detection of gas body stability and cell death. <i>Ultrasound in Medicine and Biology, 2006</i> , 32, 439-47	3.5	9
37	Acoustic Backscatter Features Associated with Production of Tissue Homogenate using Pulsed Cavitational Ultrasound Therapy. <i>AIP Conference Proceedings, 2006</i> ,	0	2
36	Optical and Acoustic Monitoring of Bubble Dynamics at a Tissue-fluid Interface in Ultrasound Tissue Erosion. <i>AIP Conference Proceedings, 2006</i> ,	0	2
35	Cost-effective assembly of a basic fiber-optic hydrophone for measurement of high-amplitude therapeutic ultrasound fields. <i>Journal of the Acoustical Society of America, 2006</i> , 119, 1432-40	2.2	173
34	Imaging of joints with laser-based photoacoustic tomography: an animal study. <i>Medical Physics, 2006</i> , 33, 2691-7	4.4	37
33	Pulsed cavitational ultrasound: a noninvasive technology for controlled tissue ablation (histotripsy) in the rabbit kidney. <i>Journal of Urology, 2006</i> , 175, 734-8	2.5	240
32	Microfluidic model of bubble lodging in microvessel bifurcations. <i>Applied Physics Letters, 2006</i> , 89, 2441034	3.4	34

31	A new strategy to enhance cavitation tissue erosion using a high-intensity, Initiating sequence. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 1412-24	3.2	36
30	Measurement of volumetric flow. <i>Journal of Ultrasound in Medicine</i> , 2006 , 25, 1305-11	2.9	24
29	Pulsed cavitation ultrasound therapy for controlled tissue homogenization. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 115-29	3.5	202
28	Vector Doppler imaging of a spinning disc ultrasound Doppler phantom. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1037-46	3.5	29
27	Refill model of rabbit kidney vasculature. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1331-8	3.5	11
26	Evaluation of ultrasound tissue damage based on changes in image echogenicity in canine kidney. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1111-20	3.2	10
25	Acoustic droplet vaporization for temporal and spatial control of tissue occlusion: a kidney study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1101-10	3.2	81
24	Sonographic evaluation of early-stage breast cancers that undergo neoadjuvant chemotherapy. <i>Journal of Ultrasound in Medicine</i> , 2005 , 24, 885-95	2.9	19
23	A bench top experimental model of bubble transport in multiple arteriole bifurcations. <i>International Journal of Heat and Fluid Flow</i> , 2005 , 26, 865-872	2.4	20
22	Investigation of intensity thresholds for ultrasound tissue erosion. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 1673-82	3.5	74
21	Characterizing Pulsed Ultrasound Therapy for Production of Cavitationally-Induced Lesions. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
20	Effects of contrast agent infusion rates on thresholds for tissue damage produced by single exposures of high-intensity ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1121-30	3.2	13
19	Bubble splitting in bifurcating tubes: a model study of cardiovascular gas emboli transport. <i>Journal of Applied Physiology</i> , 2005 , 99, 479-87	3.7	38
18	Controlled ultrasound tissue erosion: the role of dynamic interaction between insonation and microbubble activity. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 424-35	2.2	139
17	Combination of digital mammography with semi-automated 3D breast ultrasound. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 325-34	2.7	50
16	Potential of microbubbles for use as point targets in phase aberration correction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 1639-48	3.2	7
15	Sound speed estimation using automatic ultrasound image registration. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 1095-106	3.2	26
14	On the acoustic vaporization of micrometer-sized droplets. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 272-81	2.2	171

13	Controlled ultrasound tissue erosion. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 726-36	3.2	197
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