Jeffrey Fowlkes

List of Publications by Year
in descending order

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212 papers	8,799 citations	38660 50 h-index	48187 88 g-index
216 all docs	216 docs citations	216 times ranked	5279 citing authors

#	Article	IF	Citations
1	Liposomes-based Nanoplatform Enlarges Ultrasound-related Diagnostic and Therapeutic Precision. Current Medicinal Chemistry, 2022, 29, 1331-1341.	1.2	3
2	Micropatterning of acoustic droplet vaporization in acoustically-responsive scaffolds using extrusion-based bioprinting. Bioprinting, 2022, 25, e00188.	2.9	7
3	Umbilical Vein Pulse Wave Spectral Analysis: A Possible Method for Placental Assessment Through Evaluation of Maternal and Fetal Flow Components. Journal of Ultrasound in Medicine, 2022, 41, 2445-2457.	0.8	1
4	Multi-time scale characterization of acoustic droplet vaporization and payload release of phase-shift emulsions using high-speed microscopy. Ultrasonics Sonochemistry, 2022, 88, 106090.	3.8	8
5	The 5:1 rule overestimates the needed tunnel length during ureteral reimplantation. Neurourology and Urodynamics, 2021, 40, 85-94.	0.8	5
6	Frontâ€"End 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.	2.1	0
7	Velocity Vector Imaging to Assess Longitudinal Wall Motion of Adult Carotid Arteries. Journal of Ultrasound in Medicine, 2021, 40, 1195-1207.	0.8	3
8	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.	0.8	8
9	Stable and transient bubble formation in acoustically-responsive scaffolds by acoustic droplet vaporization: theory and application in sequential release. Ultrasonics Sonochemistry, 2021, 72, 105430.	3.8	21
10	Spatially-directed angiogenesis using ultrasound-controlled release of basic fibroblast growth factor from acoustically-responsive scaffolds. Acta Biomaterialia, 2021, 129, 73-83.	4.1	20
11	Characterizing the aggressiveness of prostate cancer using an all-optical needle photoacoustic sensing probe: feasibility study. Biomedical Optics Express, 2021, 12, 4873.	1.5	3
12	Numerical Study of Bubble Cloud and Thermal Lesion Evolution During Acoustic Droplet Vaporization Enhanced Hifu Treatment. Journal of Biomechanical Engineering, 2021, 144, .	0.6	0
13	Ureterovesical junction deformation during urine storage in the bladder and the effect on vesicoureteral reflux. Journal of Biomechanics, 2020, 113, 110123.	0.9	4
14	Guidelines and Good Clinical Practice Recommendations for Contrast Enhanced Ultrasound (CEUS) in the Liver â€" Update 2020 â€" WFUMB in Cooperation with EFSUMB, AFSUMB, AIUM, and FLAUS. Ultraschall in Der Medizin, 2020, 41, 562-585.	0.8	130
15	Tetris: Using Software/Hardware Co-Design to Enable Handheld, Physics-Limited 3D Plane-Wave Ultrasound Imaging. IEEE Transactions on Computers, 2020, 69, 1209-1220.	2.4	3
16	Guidelines and Good Clinical Practice Recommendations for Contrast-Enhanced Ultrasound (CEUS) in the Liverâ€"Update 2020 WFUMB in Cooperation with EFSUMB, AFSUMB, AIUM, and FLAUS. Ultrasound in Medicine and Biology, 2020, 46, 2579-2604.	0.7	210
17	Spatiotemporal control of micromechanics and microstructure in acoustically-responsive scaffolds using acoustic droplet vaporization. Soft Matter, 2020, 16, 6501-6513.	1.2	16
18	Safety considerations for shear-wave elastography of the infant brain. Pediatric Radiology, 2020, 50, 905-906.	1.1	5

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19	Spatially-directed cell migration in acoustically-responsive scaffolds through the controlled delivery of basic fibroblast growth factor. Acta Biomaterialia, 2020, 113, 217-227.	4.1	16
20	Three-dimensional US for Quantification of Volumetric Blood Flow: Multisite Multisystem Results from within the Quantitative Imaging Biomarkers Alliance. Radiology, 2020, 296, 662-670.	3.6	12
21	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.	0.7	4
22	Standing wave-assisted acoustic droplet vaporization for single and dual payload release in acoustically-responsive scaffolds. Ultrasonics Sonochemistry, 2020, 66, 105109.	3.8	19
23	Subharmonic Imaging (SHI)â€"Can a New Ultrasound Approach Improve Breast Cancer Diagnosis?. Academic Radiology, 2020, 27, 1075-1076.	1.3	0
24	Controlled Release of Basic Fibroblast Growth Factor (bFGF) using Therapeutic Ultrasound Enhances Angiogenesis and Reperfusion in Ischemic Muscle. , 2020, , .		0
25	Towards an Operator Independent Blood Flow Volume Quantification Using 3D Ultrasound. , 2020, , .		1
26	Controlled delivery of basic fibroblast growth factor (bFGF) using acoustic droplet vaporization stimulates endothelial network formation. Acta Biomaterialia, 2019, 97, 409-419.	4.1	30
27	Minimally invasive gas embolization using acoustic droplet vaporization in a rodent model of hepatocellular carcinoma. Scientific Reports, 2019, 9, 11040.	1.6	13
28	Three-dimensional US Fractional Moving Blood Volume: Validation of Renal Perfusion Quantification. Radiology, 2019, 293, 460-468.	3.6	19
29	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.	0.7	16
30	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.	1.7	4
31	Parametric Study of Acoustic Droplet Vaporization Thresholds and Payload Release From Acoustically-Responsive Scaffolds. Ultrasound in Medicine and Biology, 2019, 45, 2471-2484.	0.7	23
32	Tetris. , 2019, , .		5
33	Error analysis of speed of sound reconstruction in ultrasound limited angle transmission tomography. Ultrasonics, 2018, 88, 174-184.	2.1	1
34	Evaluation of Umbilical Vein Blood Volume Flow in Preeclampsia by Angleâ€Independent 3D Sonography. Journal of Ultrasound in Medicine, 2018, 37, 1633-1640.	0.8	16
35	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.	1.6	4
36	The effects on thermal lesion shape and size from bubble clouds produced by acoustic droplet vaporization. BioMedical Engineering OnLine, 2018, 17, 163.	1.3	6

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37	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.	1.7	6
38	Interstitial assessment of aggressive prostate cancer by physioâ€chemical photoacoustics: An ex vivo study with intact human prostates. Medical Physics, 2018, 45, 4125-4132.	1.6	18
39	Guidelines for Cleaning Transvaginal Ultrasound Transducers Between Patients. Ultrasound in Medicine and Biology, 2017, 43, 1076-1079.	0.7	31
40	Temperature imaging with ultrasonic transmission tomography for treatment control. AIP Conference Proceedings, 2017, , .	0.3	1
41	Low-Cost 3-D Flow Estimation of Blood With Clutter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 772-784.	1.7	3
42	Numerical Study of Bubble Area Evolution During Acoustic Droplet Vaporization-Enhanced HIFU Treatment. Journal of Biomechanical Engineering, 2017, 139, .	0.6	5
43	High volume rate 3D ultrasound imaging based on synthetic aperture sequential beamforming. , 2017, , .		0
44	High volume rate 3D ultrasound imaging based on Synthetic Aperture Sequential Beamforming. , 2017, , .		1
45	Improving plane wave imaging performance through post-processing. , 2016, , .		0
46	Low Complexity 3D Ultrasound Imaging Using Synthetic Aperture Sequential Beamforming. , 2016, , .		6
47	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. Scientific Reports, 2016, 6, 16937.	1.6	37
48	Use of Hydroxyapatite Doping to Enhance Responsiveness of Heat-Inducible Gene Switches to Focused Ultrasound. Ultrasound in Medicine and Biology, 2016, 42, 824-830.	0.7	3
49	Design and Characterization of Fibrin-Based Acoustically Responsive Scaffolds for Tissue Engineering Applications. Ultrasound in Medicine and Biology, 2016, 42, 257-271.	0.7	33
50	Low cost clutter filter for 3D ultrasonic flow estimation. , 2015, , .		1
51	Characterization of Bioeffects on Endothelial Cells under Acoustic Droplet Vaporization. Ultrasound in Medicine and Biology, 2015, 41, 3241-3252.	0.7	27
52	Volumetric Blood Flow in Transjugular Intrahepatic Portosystemic Shunt Revision Using 3â€Dimensional Doppler Sonography. Journal of Ultrasound in Medicine, 2015, 34, 257-266.	0.8	20
53	Photoacoustic Spectrum Analysis for Microstructure Characterization in Biological Tissue: Analytical Model. Ultrasound in Medicine and Biology, 2015, 41, 1473-1480.	0.7	48
54	Histotripsy methods in mechanical disintegration of tissue: Towards clinical applications. International Journal of Hyperthermia, 2015, 31, 145-162.	1.1	216

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55	Patterning Expression of Regenerative Growth Factors Using High Intensity Focused Ultrasound. Tissue Engineering - Part C: Methods, 2014, 20, 769-779.	1.1	20
56	Characterization of a Reverse-Phase Perfluorocarbon Emulsion for the Pulmonary Delivery of Tobramycin. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2014, 27, 392-399.	0.7	9
57	Acceleration of ultrasound thermal therapy by patterned acoustic droplet vaporization. Journal of the Acoustical Society of America, 2014, 135, 537-544.	0.5	28
58	Formation of toroidal bubbles from acoustic droplet vaporization. Applied Physics Letters, 2014, 104, 063706.	1.5	10
59	A low complexity scheme for accurate 3D velocity estimation in ultrasound systems. , 2014, , .		2
60	Characterization of acoustic droplet vaporization and inertial cavitation thresholds in acoustically-responsive tissue scaffolds. , 2014, , .		1
61	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, 1137-1151.	1.7	15
62	High-Frequency Ultrasonic Imaging of Growth and Development in Manufactured Engineered Oral Mucosal Tissue Surfaces. Ultrasound in Medicine and Biology, 2014, 40, 2244-2251.	0.7	1
63	Histotripsy beyond the intrinsic cavitation threshold using very short ultrasound pulses: microtripsy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 251-265.	1.7	120
64	Initial nucleation site formation due to acoustic droplet vaporization. Applied Physics Letters, 2014, 104, 063703.	1.5	51
65	Guidelines and Good Clinical Practice Recommendations for Contrast Enhanced Ultrasound (CEUS) in the Liver â€“ Update 2012. Ultrasound in Medicine and Biology, 2013, 39, 187-210.	0.7	652
66	Probability of Cavitation for Single Ultrasound Pulses Applied to Tissues and Tissue-Mimicking Materials. Ultrasound in Medicine and Biology, 2013, 39, 449-465.	0.7	240
67	Acoustic dropletâ€“hydrogel composites for spatial and temporal control of growth factor delivery and scaffold stiffness. Acta Biomaterialia, 2013, 9, 7399-7409.	4.1	68
68	Investigation of the mechanism of ARFI-based Color Doppler feedback of histotripsy tissue fractionation. , 2013, , .		1
69	Combined Photoacoustic and Acoustic Imaging of Human Breast Specimens in the Mammographic Geometry. Ultrasound in Medicine and Biology, 2013, 39, 2176-2184.	0.7	21
70	Combined photoacoustic and ultrasound imaging of human breast in vivo in the mammographic geometry. Proceedings of SPIE, 2013, , .	0.8	2
71	Viewing individual cells and ambient microvasculature using two molecular contrasts. Proceedings of SPIE, 2013, , .	0.8	0
72	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, 345-351.	1.1	8

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73	Treatment of murine tumors using acoustic droplet vaporization-enhanced high intensity focused ultrasound. Physics in Medicine and Biology, 2013, 58, 6179-6191.	1.6	23
74	Simultaneous Viewing of Individual Cells and Ambient Microvasculature Using Optical Absorption and Fluorescence Contrasts. Molecular Imaging, 2013, 12, 7290.2013.00064.	0.7	0
75	Breast Mass Characterization Using 3â€Dimensional Automated Ultrasound as an Adjunct to Digital Breast Tomosynthesis. Journal of Ultrasound in Medicine, 2013, 32, 93-104.	0.8	22
76	Evolution of Acoustically Vaporized Microdroplets in Gas Embolotherapy. Journal of Biomechanical Engineering, 2012, 134, 031010.	0.6	26
77	Histotripsy and metastasis: Assessment in a renal VX-2 rabbit tumor model. , 2012, , .		0
78	A 32 x 32 capacitive micromachined ultrasonic transducer array manufactured in standard CMOS. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1521-1536.	1.7	22
79	Photoacoustic and ultrasound dual-modality imaging of human peripheral joints. Journal of Biomedical Optics, 2012, 18, 010502.	1.4	72
80	Potential Use of Ultrasound Speckle Tracking for Motion Management During Radiotherapy. Journal of Ultrasound in Medicine, 2012, 31, 469-481.	0.8	16
81	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. Proceedings of SPIE, 2012, , .	0.8	0
82	An Efficient Treatment Strategy for Histotripsy by Removing Cavitation Memory. Ultrasound in Medicine and Biology, 2012, 38, 753-766.	0.7	100
83	Histotripsy of Renal Implanted VX-2 Tumor in a Rabbit Model: Investigation of Metastases. Urology, 2012, 80, 724-729.	0.5	27
84	Imaging feedback of histotripsy treatments using ultrasound shear wave elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1167-1181.	1.7	39
85	Real-time elastography-based monitoring of histotripsy tissue fractionation using color Doppler. , 2012, , .		3
86	A noninvasive approach for metastatic lymph node ablation using histotripsy tissue fractionation. , 2012, , .		0
87	Three-Dimensional Sonographic Measurement of Blood Volume Flow in the Umbilical Cord. Journal of Ultrasound in Medicine, 2012, 31, 1927-1934.	0.8	14
88	Microbubble transport through a bifurcating vessel network with pulsatile flow. Biomedical Microdevices, 2012, 14, 131-143.	1.4	15
89	Endothelial bioeffects from acoustic droplet vaporization for gas embolotherapy. FASEB Journal, 2012, 26, 859.14.	0.2	0
90	Non-linear stress-strain measurements of ex vivo produced oral mucosal equivalent (EVPOME) compared to normal oral mucosal and skin tissue. , 2011, 2011, 286-9.		2

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91	Imaging feedback of histotripsy treatments using ultrasound transient elastography. , 2011, , .		0
92	Bubble evolution in acoustic droplet vaporization at physiological temperature via ultra-high speed imaging. Soft Matter, 2011, 7, 4009.	1.2	91
93	A tissue-mimicking ultrasound test object using droplet vaporization to create point targets. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2013-2025.	1.7	17
94	Histotripsy Fractionation of Prostate Tissue: Local Effects and Systemic Response in a Canine Model. Journal of Urology, 2011, 185, 1484-1489.	0.2	63
95	Ultrasound backscatter spectral analysis provides image feedback for histotripsy tissue fractionation. , 2011, , .		0
96	A dose-efficient treatment strategy for histotripsy by removing cavitation memory. , 2011, , .		0
97	Cavitation clouds created by shock scattering from bubbles during histotripsy. Journal of the Acoustical Society of America, 2011, 130, 1888-1898.	0.5	256
98	Histotripsy Homogenization of the Prostate: Thresholds for Cavitation Damage of Periprostatic Structures. Journal of Endourology, 2011, 25, 1531-1535.	1.1	24
99	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. Optics Express, 2011, 19, 14335.	1.7	52
100	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, 1734-1742.	0.7	10
101	Microfluidic particle sorting utilizing inertial lift force. Biomedical Microdevices, 2011, 13, 97-105.	1.4	53
102	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.	1.3	9
103	Examining and Analyzing Subcellular Morphology of Renal Tissue Treated by Histotripsy. Ultrasound in Medicine and Biology, 2011, 37, 78-86.	0.7	32
104	Photoacoustic Imaging With a Commercial Ultrasound System and a Custom Probe. Ultrasound in Medicine and Biology, 2011, 37, 484-492.	0.7	53
105	Dual sided automated ultrasound system in the mammographic geometry. , 2011, , .		8
106	Effect of a Gel Retainment Dam on Automated Ultrasound Coverage in a Dual-Modality Breast Imaging System. Journal of Ultrasound in Medicine, 2010, 29, 1075-1081.	0.8	9
107	Delivery of Water-Soluble Drugs Using Acoustically Triggered Perfluorocarbon Double Emulsions. Pharmaceutical Research, 2010, 27, 2753-2765.	1.7	130
108	Delivery of Chlorambucil Using an Acoustically-Triggered Perfluoropentane Emulsion. Ultrasound in Medicine and Biology, 2010, 36, 1364-1375.	0.7	136

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109	Local compression in automated breast ultrasound in the mammographic geometry. , 2010, , .		3
110	A boundary element model of the transport of a semi-infinite bubble through a microvessel bifurcation. Physics of Fluids, 2010, 22, 61902.	1.6	29
111	Dynamics of acoustic droplet vaporization in gas embolotherapy. Applied Physics Letters, 2010, 96, 143702.	1.5	69
112	Development of an Acoustic Droplet Vaporization, Ultrasound Drug Delivery Emulsion. , 2010, , .		0
113	Why Are Short Pulses More Efficient in Tissue Erosion Using Pulsed Cavitational Ultrasound Therapy (Histotripsy)?. , 2010, , .		10
114	Quantitative photoacoustic measurement of blood oxygen saturation in vivo aided by an optical contrast agent. Proceedings of SPIE, 2010, , .	0.8	0
115	A high-speed photoacoustic tomography system based on a commercial ultrasound and a custom transducer array. , 2010, , .		0
116	Photoacoustic tomography: a potential new tool for prostate cancer. Biomedical Optics Express, 2010, 1, 1117.	1.5	70
117	Inception of cavitation clouds by scattered shockwaves. , 2010, , .		6
118	Local cavitation suppression using cavitation nuclei preconditioning for precise treatment in histotripsy. , 2010, , .		0
119	Ultrasound-induced fluid uptake phenomenon in porcine uterine tissue. , 2010, , .		0
120	The release of thrombin, using acoustic droplet vaporization (ADV), from perfluoropentane double emulsions. , 2010, , .		1
121	A Boundary Element Model of Multiple Microcirculatory Bubbles in Cardiovasculature. International Journal of Emerging Multidisciplinary Fluid Sciences, 2010, 2, 143-160.	0.5	1
122	On the use of threeâ€dimensional Doppler acquisition for realâ€time volume flow estimation.. Journal of the Acoustical Society of America, 2010, 128, 2303-2303.	0.5	0
123	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.	0.5	6
124	Reflection mode photoacoustic imaging through infant skull toward noninvasive imaging of neonatal brains. Proceedings of SPIE, 2009, , .	0.8	0
125	Histotripsy of the Prostate for the Treatment of BPH: Chronic Results From a Canine Model. , 2009, , .		0
126	An ex vivo Study of the Correlation Between Acoustic Emission and Microvascular Damage. Ultrasound in Medicine and Biology, 2009, 35, 1574-1586.	0.7	32

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127	Size Measurement of Tissue Debris Particles Generated from Pulsed Ultrasound Cavitational Therapy â€“ Histotripsy. Ultrasound in Medicine and Biology, 2009, 35, 245-255.	0.7	62
128	Mean Volume Flow Estimation in Pulsatile Flow Conditions. Ultrasound in Medicine and Biology, 2009, 35, 1880-1891.	0.7	21
129	The role of inertial cavitation in acoustic droplet vaporization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1006-1017.	1.7	196
130	Breast ultrasound image improvement by pixel compounding of compression sequence. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 465-473.	1.7	4
131	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, 589-599.	1.7	9
132	Quantitative ultrasound backscatter for pulsed cavitational ultrasound therapy-histotripsy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 995-1005.	1.7	71
133	Active protection in pulse cavitational ultrasound therapy (histotripsy). , 2009, , .		1
134	Ultrasonic delivery of a chemotherapeutic agent using acoustic droplet vaporization (ADV). , 2009, , .		0
135	Spatial registration of temporally separated whole breast 3D ultrasound images. Medical Physics, 2009, 36, 4288-4300.	1.6	8
136	Ultrasound Biosafety Considerations for the Practicing Sonographer and Sonologist. Journal of Ultrasound in Medicine, 2009, 28, 139-150.	0.8	216
137	A model study of vascular microbubble transport in pulsatile blood flow through bifurcating vessels. FASEB Journal, 2009, 23, 949.12.	0.2	0
138	A boundary element model of microbubble sticking and sliding in the microcirculation. International Journal of Heat and Mass Transfer, 2008, 51, 5700-5711.	2.5	19
139	Ultrasound of the Fingers for Human Identification Using Biometrics. Ultrasound in Medicine and Biology, 2008, 34, 392-399.	0.7	11
140	Towards Aberration Correction of Transcranial Ultrasound Using Acoustic Droplet Vaporization. Ultrasound in Medicine and Biology, 2008, 34, 435-445.	0.7	90
141	Photoacoustic tomography of joints aided by an Etanercept-conjugated gold nanoparticle contrast agentâ€”anex vivopreliminary rat study. Nanotechnology, 2008, 19, 095101.	1.3	109
142	Non-invasive thrombolysis induced by histotripsy pulsed cavitation ultrasound therapy. , 2008, , .		5
143	Quantitative image feedback for pulsed cavitational ultrasound therapy- histotripsy. , 2008, , .		0
144	Histotripsy for the treatment of BPH: evaluation in a chronic canine model. , 2008, , .		6

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145	Histotripsy: Minimally Invasive Technology for Prostatic Tissue Ablation in an In Vivo Canine Model. Urology, 2008, 72, 682-686.	0.5	85
146	The role of inertial cavitation in acoustic droplet vaporization. , 2008, , .		2
147	Suspicious Breast Lesions: Assessment of 3D Doppler US Indexes for Classification in a Test Population and Fourfold Cross-Validation Scheme. Radiology, 2008, 249, 463-470.	3.6	23
148	Mean echo power as a measure of flow reduction for bubble occlusion therapy. , 2008, , .		0
149	American Institute of Ultrasound in Medicine Consensus Report on Potential Bioeffects of Diagnostic Ultrasound. Journal of Ultrasound in Medicine, 2008, 27, 503-515.	0.8	115
150	Photoacoustic tomography of small-animal and human peripheral joints. , 2008, , .		2
151	Conclusions Regarding Epidemiology for Obstetric Ultrasound. Journal of Ultrasound in Medicine, 2008, 27, 637-644.	0.8	17
152	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.	0.5	25
153	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, 2421-2430.	0.5	70
154	Histotripsy of Rabbit Renal Tissue in Vivo: Temporal Histologic Trends. Journal of Endourology, 2007, 21, 1159-1166.	1.1	79
155	Exploring the Acoustic Parameter Space in Ultrasound Therapy: Defining the Threshold for Cavitational Effects. AIP Conference Proceedings, 2007, , .	0.3	5
156	Size Measurement of Tissue Debris Generated from Mechanical Tissue Fractionation by Cavitational Pulsed Ultrasound Therapy â€" Histotripsy. AIP Conference Proceedings, 2007, , .	0.3	1
157	Segmentation-free estimation of volume changes in 3D ultrasound of breast lesion phantoms. , 2007, , .		0
158	Sub-pixel compounding from elasticity imaging data. , 2007, , .		1
159	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, 576-590.	1.7	41
160	A real-time measure of cavitation induced tissue disruption by ultrasound imaging backscatter reduction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 569-575.	1.7	66
161	Gravity-Driven Microfluidic Particle Sorting Device with Hydrodynamic Separation Amplification. Analytical Chemistry, 2007, 79, 1369-1376.	3.2	272
162	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, 672-676.	0.2	86

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163	High Speed Imaging of Bubble Clouds Generated in Pulsed Ultrasound Cavitational Therapy - Histotripsy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2091-2101.	1.7	99
164	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.	0.5	3
165	Acoustic droplet vaporization threshold: effects of pulse duration and contrast agent. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 933-946.	1.7	110
166	Effects of acoustic parameters on bubble cloud dynamics in ultrasound tissue erosion (histotripsy). Journal of the Acoustical Society of America, 2007, 122, 229-236.	0.5	109
167	Temporal Trends in the Histology of the Rabbit Kidney after Cavitational Tissue Ablation. AIP Conference Proceedings, 2007, , .	0.3	3
168	Contrast-Enhanced Ultrasound. Journal of Ultrasound in Medicine, 2007, 26, 703-704.	0.8	3
169	American Institute of Ultrasound in Medicine Recommendations for Contrast-Enhanced Liver Ultrasound Imaging Clinical Trials. Journal of Ultrasound in Medicine, 2007, 26, 705-716.	0.8	15
170	Evaluating Thin Compression Paddles for Mammographically Compatible Ultrasound. Ultrasound in Medicine and Biology, 2007, 33, 472-482.	0.7	33
171	Rapid 3D Imaging of Contrast Flow: Demonstration of a Dual Beam Technique. Ultrasound in Medicine and Biology, 2007, 33, 915-923.	0.7	9
172	A Microfluidic Model of Cardiovascular Bubble Lodging. , 2007, , .		0
173	Pulsed Cavitational Ultrasound: A Noninvasive Technology for Controlled Tissue Ablation (Histotripsy) in the Rabbit Kidney. Journal of Urology, 2006, 175, 734-738.	0.2	301
174	Microfluidic model of bubble lodging in microvessel bifurcations. Applied Physics Letters, 2006, 89, 244103.	1.5	41
175	A new strategy to enhance cavitational tissue erosion using a high-intensity, initiating sequence. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1412-1424.	1.7	46
176	Bubble lodging in bifurcating microvessel networks: a microfluidic model. , 2006, , .		0
177	Measurement of Volumetric Flow. Journal of Ultrasound in Medicine, 2006, 25, 1305-1311.	0.8	39
178	Pulsed cavitational ultrasound therapy for controlled tissue homogenization. Ultrasound in Medicine and Biology, 2006, 32, 115-129.	0.7	265
179	Vector Doppler imaging of a spinning disc ultrasound Doppler phantom. Ultrasound in Medicine and Biology, 2006, 32, 1037-1046.	0.7	53
180	Refill model of rabbit kidney vasculature. Ultrasound in Medicine and Biology, 2006, 32, 1331-1338.	0.7	11

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