

Jeffrey Fowlkes

List of Publications by Year in descending order

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212
papers

8,799
citations

38720

50
h-index

48277

88
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216
all docs

216
docs citations

216
times ranked

5279
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines and Good Clinical Practice Recommendations for Contrast Enhanced Ultrasound (CEUS) in the Liver – Update 2012. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 187-210.	0.7	652
2	Pulsed Cavitation Ultrasound: A Noninvasive Technology for Controlled Tissue Ablation (Histotripsy) in the Rabbit Kidney. <i>Journal of Urology</i> , 2006, 175, 734-738.	0.2	301
3	Gravity-Driven Microfluidic Particle Sorting Device with Hydrodynamic Separation Amplification. <i>Analytical Chemistry</i> , 2007, 79, 1369-1376.	3.2	272
4	Controlled Ultrasound Tissue Erosion. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 726-736.	1.7	269
5	Pulsed cavitation ultrasound therapy for controlled tissue homogenization. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 115-129.	0.7	265
6	Cavitation clouds created by shock scattering from bubbles during histotripsy. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 1888-1898.	0.5	256
7	Probability of Cavitation for Single Ultrasound Pulses Applied to Tissues and Tissue-Mimicking Materials. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 449-465.	0.7	240
8	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</i> , 2006, 119, 1432-1440.	0.5	232
9	Ultrasound Biosafety Considerations for the Practicing Sonographer and Sonologist. <i>Journal of Ultrasound in Medicine</i> , 2009, 28, 139-150.	0.8	216
10	Histotripsy methods in mechanical disintegration of tissue: Towards clinical applications. <i>International Journal of Hyperthermia</i> , 2015, 31, 145-162.	1.1	216
11	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.	0.7	210
12	On the acoustic vaporization of micrometer-sized droplets. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 272-281.	0.5	197
13	The role of inertial cavitation in acoustic droplet vaporization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1006-1017.	1.7	196
14	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, 424-435.	0.5	177
15	Microbubble-enhanced cavitation for noninvasive ultrasound surgery. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 1296-1304.	1.7	163
16	Delivery of Chlorambucil Using an Acoustically-Triggered Perfluoropentane Emulsion. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1364-1375.	0.7	136
17	Delivery of Water-Soluble Drugs Using Acoustically Triggered Perfluorocarbon Double Emulsions. <i>Pharmaceutical Research</i> , 2010, 27, 2753-2765.	1.7	130
18	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.	0.8	130

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19	In vivo droplet vaporization for occlusion therapy and phase aberration correction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 726-738.	1.7	121
20	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
21	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
22	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
23	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
24	Photoacoustic tomography of joints aided by an Etanercept-conjugated gold nanoparticle contrast agentâ€”an <i>ex vivo</i> preliminary rat study. Nanotechnology, 2008, 19, 095101.	1.3	109
25	An Efficient Treatment Strategy for Histotripsy by Removing Cavitation Memory. Ultrasound in Medicine and Biology, 2012, 38, 753-766.	0.7	100
26	High Speed Imaging of Bubble Clouds Generated in Pulsed Ultrasound Cavitation Therapy - Histotripsy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2091-2101.	1.7	99
27	Acoustic droplet vaporization for temporal and spatial control of tissue occlusion: a kidney study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1101-1110.	1.7	94
28	Bubble evolution in acoustic droplet vaporization at physiological temperature via ultra-high speed imaging. Soft Matter, 2011, 7, 4009.	1.2	91
29	Towards Aberration Correction of Transcranial Ultrasound Using Acoustic Droplet Vaporization. Ultrasound in Medicine and Biology, 2008, 34, 435-445.	0.7	90
30	Investigation of intensity thresholds for ultrasound tissue erosion. Ultrasound in Medicine and Biology, 2005, 31, 1673-1682.	0.7	89
31	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
32	Determination of scan-plane motion using speckle decorrelation: Theoretical considerations and initial test. International Journal of Imaging Systems and Technology, 1997, 8, 38-44.	2.7	85
33	Histotripsy: Minimally Invasive Technology for Prostatic Tissue Ablation in an In Vivo Canine Model. Urology, 2008, 72, 682-686.	0.5	85
34	Rapid elastic image registration for 3-D ultrasound. IEEE Transactions on Medical Imaging, 2002, 21, 1384-1394.	5.4	80
35	Histotripsy of Rabbit Renal Tissue <i>in Vivo</i> : Temporal Histologic Trends. Journal of Endourology, 2007, 21, 1159-1166.	1.1	79
36	Photoacoustic and ultrasound dual-modality imaging of human peripheral joints. Journal of Biomedical Optics, 2012, 18, 010502.	1.4	72

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37	Quantitative ultrasound backscatter for pulsed cavitation ultrasound therapy-histotripsy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 995-1005.	1.7	71
38	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
39	Photoacoustic tomography: a potential new tool for prostate cancer. Biomedical Optics Express, 2010, 1, 1117.	1.5	70
40	Dynamics of acoustic droplet vaporization in gas embolotherapy. Applied Physics Letters, 2010, 96, 143702.	1.5	69
41	Acoustic droplet-hydrogel composites for spatial and temporal control of growth factor delivery and scaffold stiffness. Acta Biomaterialia, 2013, 9, 7399-7409.	4.1	68
42	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
43	Combination of Digital Mammography with Semi-automated 3D Breast Ultrasound. Technology in Cancer Research and Treatment, 2004, 3, 325-334.	0.8	64
44	Histotripsy Fractionation of Prostate Tissue: Local Effects and Systemic Response in a Canine Model. Journal of Urology, 2011, 185, 1484-1489.	0.2	63
45	Size Measurement of Tissue Debris Particles Generated from Pulsed Ultrasound Cavitation Therapy - Histotripsy. Ultrasound in Medicine and Biology, 2009, 35, 245-255.	0.7	62
46	Dimethylformamide as an enhancer of cavitation-induced cell lysis in vitro. Journal of the Acoustical Society of America, 1995, 97, 669-676.	0.5	58
47	Vector Doppler imaging of a spinning disc ultrasound Doppler phantom. Ultrasound in Medicine and Biology, 2006, 32, 1037-1046.	0.7	53
48	Microfluidic particle sorting utilizing inertial lift force. Biomedical Microdevices, 2011, 13, 97-105.	1.4	53
49	Photoacoustic Imaging With a Commercial Ultrasound System and a Custom Probe. Ultrasound in Medicine and Biology, 2011, 37, 484-492.	0.7	53
50	Bubble splitting in bifurcating tubes: a model study of cardiovascular gas emboli transport. Journal of Applied Physiology, 2005, 99, 479-487.	1.2	52
51	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. Optics Express, 2011, 19, 14335.	1.7	52
52	Initial nucleation site formation due to acoustic droplet vaporization. Applied Physics Letters, 2014, 104, 063703.	1.5	51
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	A new strategy to enhance cavitation tissue erosion using a high-intensity, initiating sequence. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1412-1424.	1.7	46

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55	Imaging of joints with laser-based photoacoustic tomography: An animal study. <i>Medical Physics</i> , 2006, 33, 2691-2697.	1.6	45
56	Sound speed estimation using automatic ultrasound image registration. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 1095-1106.	1.7	44
57	Microfluidic model of bubble lodging in microvessel bifurcations. <i>Applied Physics Letters</i> , 2006, 89, 244103.	1.5	41
58	Spatial variability in acoustic backscatter as an indicator of tissue homogenate production in pulsed cavitation ultrasound therapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 576-590.	1.7	41
59	Cavitation nucleation agents for nonthermal ultrasound therapy. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 3480-3486.	0.5	40
60	Spatial control of gas bubbles and their effects on acoustic fields. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 95-106.	0.7	40
61	Measurement of Volumetric Flow. <i>Journal of Ultrasound in Medicine</i> , 2006, 25, 1305-1311.	0.8	39
62	Imaging feedback of histotripsy treatments using ultrasound shear wave elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1167-1181.	1.7	39
63	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016, 6, 16937.	1.6	37
64	A cost effective degassing system for use in ultrasonic measurements: The multiple pinhole degassing system. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 3857-3859.	0.5	35
65	Evaluating Thin Compression Paddles for Mammographically Compatible Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 472-482.	0.7	33
66	Design and Characterization of Fibrin-Based Acoustically Responsive Scaffolds for Tissue Engineering Applications. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 257-271.	0.7	33
67	An ex vivo Study of the Correlation Between Acoustic Emission and Microvascular Damage. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1574-1586.	0.7	32
68	Examining and Analyzing Subcellular Morphology of Renal Tissue Treated by Histotripsy. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 78-86.	0.7	32
69	Guidelines for Cleaning Transvaginal Ultrasound Transducers Between Patients. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1076-1079.	0.7	31
70	Controlled delivery of basic fibroblast growth factor (bFGF) using acoustic droplet vaporization stimulates endothelial network formation. <i>Acta Biomaterialia</i> , 2019, 97, 409-419.	4.1	30
71	A boundary element model of the transport of a semi-infinite bubble through a microvessel bifurcation. <i>Physics of Fluids</i> , 2010, 22, 61902.	1.6	29
72	Acceleration of ultrasound thermal therapy by patterned acoustic droplet vaporization. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 537-544.	0.5	28

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73	Speckle Decorrelation Flow Measurement with B-Mode US of Contrast Agent Flow in a Phantom and in Rabbit Kidney. <i>Radiology</i> , 1999, 213, 429-437.	3.6	27
74	Histotripsy of Renal Implanted VX-2 Tumor in a Rabbit Model: Investigation of Metastases. <i>Urology</i> , 2012, 80, 724-729.	0.5	27
75	Characterization of Bioeffects on Endothelial Cells under Acoustic Droplet Vaporization. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 3241-3252.	0.7	27
76	Evolution of Acoustically Vaporized Microdroplets in Gas Embolotherapy. <i>Journal of Biomechanical Engineering</i> , 2012, 134, 031010.	0.6	26
77	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.	1.1	25
78	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
79	Sonographic Evaluation of Early-Stage Breast Cancers That Undergo Neoadjuvant Chemotherapy. <i>Journal of Ultrasound in Medicine</i> , 2005, 24, 885-895.	0.8	24
80	Histotripsy Homogenization of the Prostate: Thresholds for Cavitation Damage of Periprostatic Structures. <i>Journal of Endourology</i> , 2011, 25, 1531-1535.	1.1	24
81	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, 463-470.	3.6	23
82	Treatment of murine tumors using acoustic droplet vaporization-enhanced high intensity focused ultrasound. <i>Physics in Medicine and Biology</i> , 2013, 58, 6179-6191.	1.6	23
83	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.	0.7	23
84	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, 1521-1536.	1.7	22
85	Breast Mass Characterization Using 3D Dimensional Automated Ultrasound as an Adjunct to Digital Breast Tomosynthesis. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 93-104.	0.8	22
86	Mean Volume Flow Estimation in Pulsatile Flow Conditions. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1880-1891.	0.7	21
87	Combined Photoacoustic and Acoustic Imaging of Human Breast Specimens in the Mammographic Geometry. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 2176-2184.	0.7	21
88	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.	3.8	21
89	Variables controlling contrast generation in a urinary bladder model. <i>Journal of the Acoustical Society of America</i> , 1998, 103, 3706-3716.	0.5	20
90	Patterning Expression of Regenerative Growth Factors Using High Intensity Focused Ultrasound. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 769-779.	1.1	20

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91	Volumetric Blood Flow in Transjugular Intrahepatic Portosystemic Shunt Revision Using 3-Dimensional Doppler Sonography. <i>Journal of Ultrasound in Medicine</i> , 2015, 34, 257-266.	0.8	20
92	Spatially-directed angiogenesis using ultrasound-controlled release of basic fibroblast growth factor from acoustically-responsive scaffolds. <i>Acta Biomaterialia</i> , 2021, 129, 73-83.	4.1	20
93	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.	2.5	19
94	Three-dimensional US Fractional Moving Blood Volume: Validation of Renal Perfusion Quantification. <i>Radiology</i> , 2019, 293, 460-468.	3.6	19
95	Standing wave-assisted acoustic droplet vaporization for single and dual payload release in acoustically-responsive scaffolds. <i>Ultrasonics Sonochemistry</i> , 2020, 66, 105109.	3.8	19
96	Interstitial assessment of aggressive prostate cancer by physiochemical photoacoustics: An <i>in vivo</i> study with intact human prostates. <i>Medical Physics</i> , 2018, 45, 4125-4132.	1.6	18
97	Conclusions Regarding Epidemiology for Obstetric Ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2008, 27, 637-644.	0.8	17
98	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, 2013-2025.	1.7	17
99	Potential Use of Ultrasound Speckle Tracking for Motion Management During Radiotherapy. <i>Journal of Ultrasound in Medicine</i> , 2012, 31, 469-481.	0.8	16
100	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.	0.8	16
101	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.	0.7	16
102	Spatiotemporal control of micromechanics and microstructure in acoustically-responsive scaffolds using acoustic droplet vaporization. <i>Soft Matter</i> , 2020, 16, 6501-6513.	1.2	16
103	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.	4.1	16
104	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, 1121-1130.	1.7	15
105	American Institute of Ultrasound in Medicine Recommendations for Contrast-Enhanced Liver Ultrasound Imaging Clinical Trials. <i>Journal of Ultrasound in Medicine</i> , 2007, 26, 705-716.	0.8	15
106	Microbubble transport through a bifurcating vessel network with pulsatile flow. <i>Biomedical Microdevices</i> , 2012, 14, 131-143.	1.4	15
107	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, 1137-1151.	1.7	15
108	Three-Dimensional Sonographic Measurement of Blood Volume Flow in the Umbilical Cord. <i>Journal of Ultrasound in Medicine</i> , 2012, 31, 1927-1934.	0.8	14

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109	Minimally invasive gas embolization using acoustic droplet vaporization in a rodent model of hepatocellular carcinoma. <i>Scientific Reports</i> , 2019, 9, 11040.	1.6	13
110	Potential of microbubbles for use as point targets in phase aberration correction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 1639-1648.	1.7	12
111	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.	3.6	12
112	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, 1111-1120.	1.7	11
113	Refill model of rabbit kidney vasculature. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1331-1338.	0.7	11
114	Ultrasound of the Fingers for Human Identification Using Biometrics. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 392-399.	0.7	11
115	Why Are Short Pulses More Efficient in Tissue Erosion Using Pulsed Cavitation Ultrasound Therapy (Histotripsy)?, 2010, , .		10
116	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, 1734-1742.	0.7	10
117	Formation of toroidal bubbles from acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014, 104, 063706.	1.5	10
118	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</i> , 2006, 32, 439-447.	0.7	9
119	Rapid 3D Imaging of Contrast Flow: Demonstration of a Dual Beam Technique. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 915-923.	0.7	9
120	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, 589-599.	1.7	9
121	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, 1075-1081.	0.8	9
122	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.	1.3	9
123	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, 392-399.	0.7	9
124	Spatial registration of temporally separated whole breast 3D ultrasound images. <i>Medical Physics</i> , 2009, 36, 4288-4300.	1.6	8
125	Dual sided automated ultrasound system in the mammographic geometry. , 2011, , .		8
126	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, 345-351.	1.1	8

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127	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.	0.8	8
128	Multi-time scale characterization of acoustic droplet vaporization and payload release of phase-shift emulsions using high-speed microscopy. <i>Ultrasonics Sonochemistry</i> , 2022, 88, 106090.	3.8	8
129	Micropatterning of acoustic droplet vaporization in acoustically-responsive scaffolds using extrusion-based bioprinting. <i>Bioprinting</i> , 2022, 25, e00188.	2.9	7
130	Histotripsy for the treatment of BPH: evaluation in a chronic canine model. , 2008, , .		6
131	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.	0.5	6
132	Inception of cavitation clouds by scattered shockwaves. , 2010, , .		6
133	Low Complexity 3D Ultrasound Imaging Using Synthetic Aperture Sequential Beamforming. , 2016, , .		6
134	The effects on thermal lesion shape and size from bubble clouds produced by acoustic droplet vaporization. <i>BioMedical Engineering OnLine</i> , 2018, 17, 163.	1.3	6
135	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.	1.7	6
136	A Hand-Controlled, 3D Ultrasound Guide and Measurement System. <i>Acoustical Imaging</i> , 1997, , 237-242.	0.2	6
137	Exploring the Acoustic Parameter Space in Ultrasound Therapy: Defining the Threshold for Cavitation Effects. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	5
138	Non-invasive thrombolysis induced by histotripsy pulsed cavitation ultrasound therapy. , 2008, , .		5
139	Numerical Study of Bubble Area Evolution During Acoustic Droplet Vaporization-Enhanced HIFU Treatment. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	5
140	Tetris. , 2019, , .		5
141	Safety considerations for shear-wave elastography of the infant brain. <i>Pediatric Radiology</i> , 2020, 50, 905-906.	1.1	5
142	The 5:1 rule overestimates the needed tunnel length during ureteral reimplantation. <i>Neurourology and Urodynamics</i> , 2021, 40, 85-94.	0.8	5
143	Characterizing Pulsed Ultrasound Therapy for Production of Cavitationally-Induced Lesions. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	4
144	Optical and Acoustic Monitoring of Bubble Dynamics at a Tissue-fluid Interface in Ultrasound Tissue Erosion. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	4

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145	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
146	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
147	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
148	Ureterovesical junction deformation during urine storage in the bladder and the effect on vesicoureteral reflux. Journal of Biomechanics, 2020, 113, 110123.	0.9	4
149	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
150	Acoustic Backscatter Features Associated with Production of Tissue Homogenate using Pulsed Cavitation Ultrasound Therapy. AIP Conference Proceedings, 2006, , .	0.3	3
151	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
152	Temporal Trends in the Histology of the Rabbit Kidney after Cavitation Tissue Ablation. AIP Conference Proceedings, 2007, , .	0.3	3
153	Contrast-Enhanced Ultrasound. Journal of Ultrasound in Medicine, 2007, 26, 703-704.	0.8	3
154	Local compression in automated breast ultrasound in the mammographic geometry. , 2010, , .		3
155	Real-time elastography-based monitoring of histotripsy tissue fractionation using color Doppler. , 2012, , .		3
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157	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
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