

Paul L Carson

List of Publications by Citations

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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.

200
papers

7,154
citations

47
h-index

79
g-index

241
ext. papers

8,189
ext. citations

5
avg, IF

5.41
L-index

#	Paper	IF	Citations
200	Power Doppler US: a potentially useful alternative to mean frequency-based color Doppler US. <i>Radiology</i> , 1994 , 190, 853-6	20.5	731
199	Acoustic droplet vaporization for therapeutic and diagnostic applications. <i>Ultrasound in Medicine and Biology</i> , 2000 , 26, 1177-89	3.5	405
198	Fractional moving blood volume: estimation with power Doppler US. <i>Radiology</i> , 1995 , 197, 183-90	20.5	233
197	Doppler ultrasound color flow imaging in the study of breast cancer: preliminary findings. <i>Ultrasound in Medicine and Biology</i> , 1990 , 16, 553-9	3.5	226
196	Quantitative imaging biomarkers: a review of statistical methods for technical performance assessment. <i>Statistical Methods in Medical Research</i> , 2015 , 24, 27-67	2.3	201
195	On the acoustic vaporization of micrometer-sized droplets. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 272-81	2.2	171
194	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
193	Sonographic evaluation of the cartilage of the knee. <i>Radiology</i> , 1984 , 153, 781-4	20.5	125
192	Digital breast tomosynthesis is comparable to mammographic spot views for mass characterization. <i>Radiology</i> , 2012 , 262, 61-8	20.5	121
191	Delivery of chlorambucil using an acoustically-triggered perfluoropentane emulsion. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1364-75	3.5	114
190	Breast imaging in coronal planes with simultaneous pulse echo and transmission ultrasound. <i>Science</i> , 1981 , 214, 1141-3	33.3	114
189	Real-time B-mode ultrasound quality control test procedures. Report of AAPM Ultrasound Task Group No. 1. <i>Medical Physics</i> , 1998 , 25, 1385-406	4.4	107
188	Delivery of water-soluble drugs using acoustically triggered perfluorocarbon double emulsions. <i>Pharmaceutical Research</i> , 2010 , 27, 2753-65	4.5	105
187	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
186	In vivo droplet vaporization for occlusion therapy and phase aberration correction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 726-38	3.2	99
185	Initial investigation of acoustic droplet vaporization for occlusion in canine kidney. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1691-703	3.5	95
184	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

183	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
182	Ultrasonic power and intensities produced by diagnostic ultrasound equipment. <i>Ultrasound in Medicine and Biology</i> , 1978 , 3, 341-50	3.5	88
181	Medical breast ultrasound image segmentation by machine learning. <i>Ultrasonics</i> , 2019 , 91, 1-9	3.5	87
180	Acoustic droplet vaporization for enhancement of thermal ablation by high intensity focused ultrasound. <i>Academic Radiology</i> , 2011 , 18, 1123-32	4.3	82
179	Normalizing fractional moving blood volume estimates with power Doppler US: defining a stable intravascular point with the cumulative power distribution function. <i>Radiology</i> , 1997 , 205, 757-65	20.5	82
178	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
177	A preclinical system prototype for focused microwave thermal therapy of the breast. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 2431-8	5	78
176	Automated three-dimensional US frame positioning computed from elevational speckle decorrelation. <i>Radiology</i> , 1998 , 209, 575-82	20.5	78
175	Magnetic-resonance imaging techniques for detection of elasticity variation. <i>Medical Physics</i> , 1995 , 22, 1771-8	4.4	74
174	Pure optical photoacoustic microscopy. <i>Optics Express</i> , 2011 , 19, 9027-34	3.3	73
173	Rapid elastic image registration for 3-D ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1384-1394	11.7	67
172	The risk of exposure to diagnostic ultrasound in postnatal subjects: nonthermal mechanisms. <i>Journal of Ultrasound in Medicine</i> , 2008 , 27, 565-92; quiz 593-6	2.9	66
171	Towards aberration correction of transcranial ultrasound using acoustic droplet vaporization. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 435-45	3.5	66
170	Registration of three-dimensional compound ultrasound scans of the breast for refraction and motion correction. <i>Ultrasound in Medicine and Biology</i> , 1995 , 21, 769-78	3.5	66
169	The functional pitch of an organ: quantification of tissue texture with photoacoustic spectrum analysis. <i>Radiology</i> , 2014 , 271, 248-54	20.5	65
168	Semiautomatic registration of volumetric ultrasound scans. <i>Ultrasound in Medicine and Biology</i> , 1999 , 25, 339-47	3.5	63
167	Clean and dirty shadowing at US: a reappraisal. <i>Radiology</i> , 1991 , 181, 231-6	20.5	62
166	Signal-to-noise measures for magnetic resonance imagers. <i>Magnetic Resonance Imaging</i> , 1993 , 11, 425-8	3.3	60

165	Determination of scan-plane motion using speckle decorrelation: Theoretical considerations and initial test. <i>International Journal of Imaging Systems and Technology</i> , 1997 , 8, 38-44	2.5	58
164	Photoacoustic tomography: a potential new tool for prostate cancer. <i>Biomedical Optics Express</i> , 2010 , 1, 1117-1126	3.5	57
163	Photoacoustic and ultrasound dual-modality imaging of human peripheral joints. <i>Journal of Biomedical Optics</i> , 2013 , 18, 10502	3.5	56
162	3D spatial compounding of ultrasound images using image-based nonrigid registration. <i>Ultrasound in Medicine and Biology</i> , 2000 , 26, 1475-88	3.5	56
161	The 3D and 2D color flow display of breast masses. <i>Ultrasound in Medicine and Biology</i> , 1997 , 23, 837-49	3.5	53
160	Superficial ultrasound shear wave speed measurements in soft and hard elasticity phantoms: repeatability and reproducibility using two ultrasound systems. <i>Pediatric Radiology</i> , 2015 , 45, 376-85	2.8	51
159	Real-time photoacoustic and ultrasound dual-modality imaging system facilitated with graphics processing unit and code parallel optimization. <i>Journal of Biomedical Optics</i> , 2013 , 18, 86001	3.5	51
158	Ultrasound tissue displacement imaging with application to breast cancer. <i>Ultrasound in Medicine and Biology</i> , 1995 , 21, 1153-62	3.5	51
157	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. <i>Optics Express</i> , 2011 , 19, 14335-47	3.3	50
156	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
155	In vivo flow speed measurement of capillaries by photoacoustic correlation spectroscopy. <i>Optics Letters</i> , 2011 , 36, 4017-9	3	47
154	Image matching using alpha-entropy measures and entropic graphs. <i>Signal Processing</i> , 2005 , 85, 277-296	4.4	47
153	Assessment of ultrasonic computed tomography in symptomatic breast patients by discriminant analysis. <i>Ultrasound in Medicine and Biology</i> , 1989 , 15, 21-8	3.5	47
152	Quantitative photoacoustic measurement of tissue optical absorption spectrum aided by an optical contrast agent. <i>Optics Express</i> , 2009 , 17, 4879-89	3.3	46
151	Imaging soft tissue through bone with ultrasound transmission tomography by reconstruction. <i>Medical Physics</i> , 1977 , 4, 302-9	4.4	44
150	Ultrasonic estimation of tissue perfusion: a stochastic approach. <i>Ultrasound in Medicine and Biology</i> , 1995 , 21, 493-500	3.5	42
149	Automated 3D ultrasound image segmentation to aid breast cancer image interpretation. <i>Ultrasonics</i> , 2016 , 65, 51-8	3.5	40
148	. <i>IEEE Transactions on Electron Devices</i> , 1990 , 37, 134-140	2.9	40

147	Digital breast tomosynthesis: observer performance of clustered microcalcification detection on breast phantom images acquired with an experimental system using variable scan angles, angular increments, and number of projection views. <i>Radiology</i> , 2014 , 273, 675-85	20.5	38
146	Characterization of cysts using differential correlation coefficient values from two dimensional breast elastography: preliminary study. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 12-21	3.5	38
145	Cavitation nucleation agents for nonthermal ultrasound therapy. <i>Journal of the Acoustical Society of America</i> , 2000 , 107, 3480-6	2.2	38
144	Conditionally Increased Acoustic Pressures in Nonfetal Diagnostic Ultrasound Examinations Without Contrast Agents: A Preliminary Assessment. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 1-41	2.9	37
143	Imaging of joints with laser-based photoacoustic tomography: an animal study. <i>Medical Physics</i> , 2006 , 33, 2691-7	4.4	37
142	Quantitative tissue motion analysis of digitized M-mode images: gestational differences of fetal lung. <i>Ultrasound in Medicine and Biology</i> , 1990 , 16, 561-9	3.5	37
141	RSNA/QIBA: Shear wave speed as a biomarker for liver fibrosis staging 2013 ,		36
140	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
139	Spatial control of gas bubbles and their effects on acoustic fields. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 95-106	3.5	36
138	Evaluation of bladder microvasculature with high-resolution photoacoustic imaging. <i>Optics Letters</i> , 2011 , 36, 4815-7	3	34
137	Determination of sample time for T1 measurement. <i>Journal of Magnetic Resonance Imaging</i> , 1998 , 8, 675-81	5.6	34
136	Digital breast tomosynthesis: studies of the effects of acquisition geometry on contrast-to-noise ratio and observer preference of low-contrast objects in breast phantom images. <i>Physics in Medicine and Biology</i> , 2014 , 59, 5883-902	3.8	33
135	Analysis of refill curve shape in ultrasound contrast agent studies. <i>Medical Physics</i> , 2004 , 31, 623-32	4.4	32
134	Acoustic generation of intra-arterial contrast boluses. <i>Ultrasound in Medicine and Biology</i> , 1995 , 21, 757-675		31
133	Automated ultrasound scanning on a dual-modality breast imaging system: coverage and motion issues and solutions. <i>Journal of Ultrasound in Medicine</i> , 2007 , 26, 645-55	2.9	30
132	Anisotropic ultrasonic backscatter from the renal cortex. <i>Ultrasound in Medicine and Biology</i> , 1988 , 14, 507-11	3.5	30
131	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016 , 6, 16937	4.9	29
130	3-D color Doppler image quantification of breast masses. <i>Ultrasound in Medicine and Biology</i> , 1998 , 24, 945-52	3.5	29

129	Fetal depth and ultrasound path lengths through overlying tissues. <i>Ultrasound in Medicine and Biology</i> , 1989 , 15, 629-39	3.5	29
128	Interlaboratory comparison of ultrasonic attenuation and speed measurements. <i>Journal of Ultrasound in Medicine</i> , 1986 , 5, 569-76	2.9	29
127	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
126	RSNA QIBA ultrasound shear wave speed Phase II phantom study in viscoelastic media 2015 ,		28
125	Image quality of microcalcifications in digital breast tomosynthesis: effects of projection-view distributions. <i>Medical Physics</i> , 2011 , 38, 5703-12	4.4	28
124	Evaluating thin compression paddles for mammographically compatible ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 472-82	3.5	28
123	Anthropomorphic breast phantoms for assessing ultrasonic imaging system performance and for training ultrasonographers: part I. <i>Journal of Clinical Ultrasound</i> , 1982 , 10, 67-75	1	28
122	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
121	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
120	Autocorrelation of integrated power Doppler signals and its application. <i>Ultrasound in Medicine and Biology</i> , 1996 , 22, 1053-7	3.5	25
119	Enhanced color flow imaging of breast cancer vasculature: continuous wave Doppler and three-dimensional display. <i>Journal of Ultrasound in Medicine</i> , 1992 , 11, 377-85	2.9	25
118	Experimental analysis of T1 imaging with a single-scan, multiple-point, inversion-recovery technique. <i>Magnetic Resonance in Medicine</i> , 1992 , 25, 337-43	4.4	25
117	Image registration methods in high-dimensional space. <i>International Journal of Imaging Systems and Technology</i> , 2006 , 16, 130-145	2.5	23
116	Anthropomorphic breast phantoms for assessing ultrasonic imaging system performance and for training ultrasonographers: part II. <i>Journal of Clinical Ultrasound</i> , 1982 , 10, 91-100	1	23
115	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</i> , 2007 , 2007, 1335-8		21
114	Speckle decorrelation flow measurement with B-mode US of contrast agent flow in a phantom and in rabbit kidney. <i>Radiology</i> , 1999 , 213, 429-37	20.5	21
113	Ultrasonic computed tomography of the breast. Improvement of image quality by use of cross-correlation time-of-flight and phase-insensitive attenuation measurements. <i>Radiology</i> , 1984 , 152, 155-9	20.5	20
112	Anniversary paper: evolution of ultrasound physics and the role of medical physicists and the AAPM and its journal in that evolution. <i>Medical Physics</i> , 2009 , 36, 411-28	4.4	19

111	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
110	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
109	Detection of degradation of magnetic resonance (MR) images: comparison of an automated MR image-quality analysis system with trained human observers. <i>Academic Radiology</i> , 1995 , 2, 277-81	4.3	18
108	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
107	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
106	Guidelines for Journal of Ultrasound in Medicine Authors and Reviewers on Measurement and Reporting of Acoustic Output and Exposure. <i>Journal of Ultrasound in Medicine</i> , 2005 , 24, 1171-1179	2.9	17
105	Simplified technique for the calibration and use of a miniature hydrophone in intensity measurements of pulsed ultrasound fields. <i>Journal of the Acoustical Society of America</i> , 1981 , 70, 1220-1228	2.2	16
104	High-speed large-angle mammography tomosynthesis system 2006 ,		15
103	Characterization of transmitted motion in fetal lung: quantitative analysis. <i>Medical Physics</i> , 1989 , 16, 333-7	4.4	15
102	Phase cancellation: a cause of acoustical shadowing at the edges of curved surfaces in B-mode ultrasound images. <i>Ultrasound in Medicine and Biology</i> , 1991 , 17, 85-95	3.5	15
101	Multiple Delay and Sum With Enveloping Beamforming Algorithm for Photoacoustic Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1812-1821	11.7	15
100	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
99	MRI scanner variability studies using a semi-automated analysis system. <i>Magnetic Resonance Imaging</i> , 1994 , 12, 1089-97	3.3	14
98	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
97	First-arrival travelttime sound speed inversion with a priori information. <i>Medical Physics</i> , 2014 , 41, 082902	4.4	13
96	Dual-Modality X-Ray-Induced Radiation Acoustic and Ultrasound Imaging for Real-Time Monitoring of Radiotherapy. <i>BME Frontiers</i> , 2020 , 2020, 1-10	4.4	13
95	Hybrid beamforming and steering with reconfigurable arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1311-9	3.2	12
94	A modeled study for diagnosis of small anechoic masses with ultrasound. <i>Radiology</i> , 1977 , 122, 765-71	20.5	12

93	Refill model of rabbit kidney vasculature. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1331-8	3.5	11
92	Ultrasound imaging as an aid to cancer therapy--II. <i>International Journal of Radiation Oncology Biology Physics</i> , 1976 , 1, 335-43	4	11
91	Thermal conductivity and diffusivity of neuroblastoma tumor. <i>Medical Physics</i> , 1978 , 5, 418-21	4.4	11
90	Automated Breast Ultrasound: Dual-Sided Compared with Single-Sided Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2072-82	3.5	11
89	Full-view photoacoustic tomography using asymmetric distributed sensors optimized with compressed sensing method. <i>Biomedical Signal Processing and Control</i> , 2015 , 21, 19-25	4.9	10
88	Computerized characterization of breast masses using three-dimensional ultrasound images 1998 ,		10
87	Variables controlling contrast generation in a urinary bladder model. <i>Journal of the Acoustical Society of America</i> , 1998 , 103, 3706-16	2.2	10
86	Constant soft tissue distance model in pregnancy. <i>Ultrasound in Medicine and Biology</i> , 1989 , 15 Suppl 1, 27-9	3.5	10
85	Automated analysis of multiple performance characteristics in magnetic resonance imaging systems. <i>Medical Physics</i> , 1986 , 13, 815-23	4.4	10
84	Motion artifacts in quantitative magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 1986 , 4, 207-13	3.3	9
83	Lesion detectability in ultrasonic computed tomography of symptomatic breast patients. <i>Investigative Radiology</i> , 1988 , 23, 421-7	10.1	9
82	Preliminary Clinical Experience with a Combined Automated Breast Ultrasound and Digital Breast Tomosynthesis System. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 734-742	3.5	8
81	Spread Spectrum Photoacoustic Tomography With Image Optimization. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 411-419	5.1	8
80	Dual sided automated ultrasound system in the mammographic geometry 2011 ,		8
79	Spatial registration of temporally separated whole breast 3D ultrasound images. <i>Medical Physics</i> , 2009 , 36, 4288-300	4.4	8
78	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
77	Ultrasound of the fingers for human identification using biometrics. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 392-9	3.5	8
76	Sonographic identification of lung maturation in the fetal lamb. <i>Investigative Radiology</i> , 1983 , 18, 18-26	10.1	8

75	Ultrasound imaging as an aid to cancer therapy-I. <i>International Journal of Radiation Oncology Biology Physics</i> , 1975 , 1, 119-32	4	8
74	Radiological Society of North America/Quantitative Imaging Biomarker Alliance Shear Wave Speed Bias Quantification in Elastic and Viscoelastic Phantoms. <i>Journal of Ultrasound in Medicine</i> , 2021 , 40, 569-581	2.9	8
73	Generalized Filtered Back-Projection Reconstruction in Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , 2006 , 167-174	0.9	8
72	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
71	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
70	Analysis of three-dimensional ultrasound Doppler for the detection of prostate cancer. <i>Urology</i> , 2001 , 57, 1128-32	1.6	7
69	Ultrasound attenuation coefficient in the fetal liver as a function of gestational age. <i>Ultrasound in Medicine and Biology</i> , 1990 , 16, 399-407	3.5	7
68	A comparative study of computerized tomography and ultrasound imaging for treatment planning of prostatic carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 1979 , 5, 289-94	4	7
67	Rapid evaluation of many pulse echo system characteristics by use of a triggered pulse burst generator with exponential decay. <i>Journal of Clinical Ultrasound</i> , 1976 , 4, 259-63	1	6
66	Intensity distribution, modulation transfer function, and the effective dimension of a line-focus x-ray focal spot. <i>Medical Physics</i> , 1976 , 3, 217-23	4.4	6
65	Pulse Echo Ultrasound Imaging Systems: Performance Tests and Criteria 1980 ,		6
64	Acoustic attenuation imaging of tissue bulk properties with a priori information. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 2113	2.2	6
63	An ionizing radiation acoustic imaging (iRAI) technique for real-time dosimetric measurements for FLASH radiotherapy. <i>Medical Physics</i> , 2020 , 47, 5090-5101	4.4	5
62	Deformable mapping technique to correlate lesions in digital breast tomosynthesis and automated breast ultrasound images. <i>Medical Physics</i> , 2018 , 45, 4402-4417	4.4	5
61	Photoacoustic imaging for deep targets in the breast using a multichannel 2D array transducer 2011 ,		5
60	Hepatic imaging: positron emission tomography, digital angiography, and nuclear magnetic resonance imaging. <i>Hepatology</i> , 1983 , 3, 1024-30	11.2	5
59	Biomedical imaging research opportunities workshop IV: a white paper. <i>Medical Physics</i> , 2007 , 34, 673-9	4.4	5
58	Mammography Tomosynthesis System for High Performance 3D Imaging. <i>Lecture Notes in Computer Science</i> , 2006 , 137-143	0.9	5

57	A Hand-Controlled, 3D Ultrasound Guide and Measurement System. <i>Acoustical Imaging</i> , 1997 , 237-242		5
56	Acoustic performance of mesh compression paddles for a multimodality breast imaging system. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 1503-11	3.5	4
55	Large Area MEMS Based Ultrasound Device for Cancer Detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 648, S135-8	1.2	4
54	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
53	Improvement of integrated ultrasonic transducer sensitivity. <i>Sensors and Actuators A: Physical</i> , 1990 , 22, 679-682	3.9	4
52	Performance survey of ultrasound instrumentation and feasibility of routine monitoring. <i>Radiology</i> , 1977 , 122, 449-54	20.5	4
51	Automated Registration of Volumes of Interest for a Combined X-Ray Tomosynthesis and Ultrasound Breast Imaging System. <i>Lecture Notes in Computer Science</i> , 2008 , 463-468	0.9	4
50	Deformable mapping using biomechanical models to relate corresponding lesions in digital breast tomosynthesis and automated breast ultrasound images. <i>Medical Image Analysis</i> , 2020 , 60, 101599	15.4	4
49	Evaluation of the Reproducibility of Bolus Transit Quantification With Contrast-Enhanced Ultrasound Across Multiple Scanners and Analysis Software Packages-A Quantitative Imaging Biomarker Alliance Study. <i>Investigative Radiology</i> , 2020 , 55, 643-656	10.1	4
48	Adaptive optimization on ultrasonic transmission tomography-based temperature image for biomedical treatment. <i>Chinese Physics B</i> , 2017 , 26, 064301	1.2	3
47	3D high resolution photoacoustic imaging based on pure optical photoacoustic microscopy with microring resonator 2014 ,		3
46	Local compression in automated breast ultrasound in the mammographic geometry 2010 ,		3
45	Image registration for detection and quantification of change on digital tomosynthesis mammographic volumes. <i>American Journal of Roentgenology</i> , 2009 , 192, 384-7	5.4	3
44	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</i> , 2007 , 2007, 91-4		3
43	Computational analysis and dosimetric evaluation of a commercial irregular-fields computer program. <i>Medical Physics</i> , 1977 , 4, 528-34	4.4	3
42	Acoustic Droplet Vaporization for the Enhancement of Ultrasound Thermal Therapy. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2010 , 2010, 221-224		3
41	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
40	Improved digital breast tomosynthesis images using automated ultrasound. <i>Medical Physics</i> , 2014 , 41, 061911	4.4	2

39	Self-characterization of commercial ultrasound probes in transmission acoustic inverse scattering: transducer model and volume integral formulation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 467-80	3.2	2
38	Combined photoacoustic and ultrasound imaging of human breast in vivo in the mammographic geometry 2013 ,		2
37	Machine learning for noise removal on breast ultrasound images 2010 ,		2
36	Functional imaging with intraoperative ultrasound: detection of somatosensory cortex in dogs with color-duplex sonography. <i>Neurosurgery</i> , 2005 , 56, 355-63; discussion 355-63	3.2	2
35	Response to [Comment on Real-time B-mode ultrasound quality control test procedures][<i>Med Phys</i> . 25, 1547-1551 (1998)]. <i>Medical Physics</i> , 1998 , 25, 1552-1554	4.4	2
34	TU-E-220-02: Combined Pulse Echo, X-Ray Tomosynthetic, Photoacoustic and Speed of Sound Imaging in the Mammographic Geometry. <i>Medical Physics</i> , 2011 , 38, 3775-3775	4.4	2
33	Determination of scan-plane motion using speckle decorrelation: Theoretical considerations and initial test 1997 , 8, 38		2
32	Temperature imaging with ultrasonic transmission tomography for treatment control 2017 ,		1
31	Limited angle breast ultrasound tomography with a priori information and artifact removal 2017 ,		1
30	Clinical Ultrasonography <i>Physics</i> 2020 , 261-286		1
29	In vivo biopsy by photoacousticUS based tissue characterization 2015 ,		1
28	Quantification of tissue texture with photoacoustic spectrum analysis 2014 ,		1
27	Characterization of acoustic droplet vaporization and inertial cavitation thresholds in acoustically-responsive tissue scaffolds 2014 ,		1
26	2010 ,		1
25	2010 ,		1
24	The role of inertial cavitation in acoustic droplet vaporization 2008 ,		1
23	Photoacoustic tomography of small-animal and human peripheral joints 2008 ,		1
22	Characterization of transmitted motion in fetal lung: Quantitative analysis. <i>Medical Physics</i> , 1989 , 16, 333-337	4.4	1

21	. <i>IEEE Transactions on Nuclear Science</i> , 1979 , 26, 27-33	1.7	1
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