

Paul L Carson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8877409/publications.pdf>

Version: 2024-02-01

229
papers

8,980
citations

36271

51
h-index

48277

88
g-index

241
all docs

241
docs citations

241
times ranked

6245
citing authors

#	ARTICLE	IF	CITATIONS
1	Power Doppler US: a potentially useful alternative to mean frequency-based color Doppler US.. Radiology, 1994, 190, 853-856.	3.6	868
2	Acoustic droplet vaporization for therapeutic and diagnostic applications. Ultrasound in Medicine and Biology, 2000, 26, 1177-1189.	0.7	506
3	Doppler ultrasound color flow imaging in the study of breast cancer: Preliminary findings. Ultrasound in Medicine and Biology, 1990, 16, 553-559.	0.7	338
4	Fractional moving blood volume: estimation with power Doppler US.. Radiology, 1995, 197, 183-190.	3.6	285
5	Quantitative imaging biomarkers: A review of statistical methods for technical performance assessment. Statistical Methods in Medical Research, 2015, 24, 27-67.	0.7	272
6	On the acoustic vaporization of micrometer-sized droplets. Journal of the Acoustical Society of America, 2004, 116, 272-281.	0.5	197
7	The role of inertial cavitation in acoustic droplet vaporization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1006-1017.	1.7	196
8	Medical breast ultrasound image segmentation by machine learning. Ultrasonics, 2019, 91, 1-9.	2.1	167
9	Sonographic evaluation of the cartilage of the knee.. Radiology, 1984, 153, 781-784.	3.6	150
10	Breast imaging in coronal planes with simultaneous pulse echo and transmission ultrasound. Science, 1981, 214, 1141-1143.	6.0	146
11	Digital Breast Tomosynthesis Is Comparable to Mammographic Spot Views for Mass Characterization. Radiology, 2012, 262, 61-68.	3.6	142
12	Delivery of Chlorambucil Using an Acoustically-Triggered Perfluoropentane Emulsion. Ultrasound in Medicine and Biology, 2010, 36, 1364-1375.	0.7	136
13	Real-timeB-mode ultrasound quality control test procedures. Report of AAPM Ultrasound Task Group No. 1. Medical Physics, 1998, 25, 1385-1406.	1.6	130
14	Delivery of Water-Soluble Drugs Using Acoustically Triggered Perfluorocarbon Double Emulsions. Pharmaceutical Research, 2010, 27, 2753-2765.	1.7	130
15	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
16	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
17	Initial Investigation of Acoustic Droplet Vaporization for Occlusion in Canine Kidney. Ultrasound in Medicine and Biology, 2010, 36, 1691-1703.	0.7	113
18	A Preclinical System Prototype for Focused Microwave Thermal Therapy of the Breast. IEEE Transactions on Biomedical Engineering, 2012, 59, 2431-2438.	2.5	113

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Pure optical photoacoustic microscopy. Optics Express, 2011, 19, 9027.	1.7	106
22	Ultrasonic power and intensities produced by diagnostic ultrasound equipment. Ultrasound in Medicine and Biology, 1978, 3, 341-350.	0.7	102
23	Normalizing fractional moving blood volume estimates with power Doppler US: defining a stable intravascular point with the cumulative power distribution function.. Radiology, 1997, 205, 757-765.	3.6	100
24	Acoustic Droplet Vaporization for Enhancement of Thermal Ablation by High Intensity Focused Ultrasound. Academic Radiology, 2011, 18, 1123-1132.	1.3	97
25	Automated three-dimensional US frame positioning computed from elevational speckle decorrelation.. Radiology, 1998, 209, 575-582.	3.6	95
26	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
27	Towards Aberration Correction of Transcranial Ultrasound Using Acoustic Droplet Vaporization. Ultrasound in Medicine and Biology, 2008, 34, 435-445.	0.7	90
28	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
29	The Functional Pitch of an Organ: Quantification of Tissue Texture with Photoacoustic Spectrum Analysis. Radiology, 2014, 271, 248-254.	3.6	83
30	Magnetic-resonance imaging techniques for detection of elasticity variation. Medical Physics, 1995, 22, 1771-1778.	1.6	82
31	Clean and dirty shadowing at US: a reappraisal.. Radiology, 1991, 181, 231-236.	3.6	80
32	Rapid elastic image registration for 3-D ultrasound. IEEE Transactions on Medical Imaging, 2002, 21, 1384-1394.	5.4	80
33	The Risk of Exposure to Diagnostic Ultrasound in Postnatal Subjects. Journal of Ultrasound in Medicine, 2008, 27, 565-592.	0.8	79
34	Signal-to-noise measures for magnetic resonance imagers. Magnetic Resonance Imaging, 1993, 11, 425-428.	1.0	78
35	Registration of three-dimensional compound ultrasound scans of the breast for refraction and motion correction. Ultrasound in Medicine and Biology, 1995, 21, 769-778.	0.7	74
36	Semiautomatic registration of volumetric ultrasound scans. Ultrasound in Medicine and Biology, 1999, 25, 339-347.	0.7	74

#	ARTICLE	IF	CITATIONS
37	Photoacoustic and ultrasound dual-modality imaging of human peripheral joints. <i>Journal of Biomedical Optics</i> , 2012, 18, 010502.	1.4	72
38	Photoacoustic tomography: a potential new tool for prostate cancer. <i>Biomedical Optics Express</i> , 2010, 1, 1117.	1.5	70
39	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, 1.	1.4	66
40	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, 376-385.	1.1	65
41	Combination of Digital Mammography with Semi-automated 3D Breast Ultrasound. <i>Technology in Cancer Research and Treatment</i> , 2004, 3, 325-334.	0.8	64
42	3D spatial compounding of ultrasound images using image-based nonrigid registration. <i>Ultrasound in Medicine and Biology</i> , 2000, 26, 1475-1488.	0.7	61
43	Ultrasound tissue displacement imaging with application to breast cancer. <i>Ultrasound in Medicine and Biology</i> , 1995, 21, 1153-1162.	0.7	58
44	In vivo flow speed measurement of capillaries by photoacoustic correlation spectroscopy. <i>Optics Letters</i> , 2011, 36, 4017.	1.7	58
45	Imaging soft tissue through bone with ultrasound transmission tomography by reconstruction. <i>Medical Physics</i> , 1977, 4, 302-309.	1.6	57
46	Image matching using alpha-entropy measures and entropic graphs. <i>Signal Processing</i> , 2005, 85, 277-296.	2.1	57
47	The 3D and 2D color flow display of breast masses. <i>Ultrasound in Medicine and Biology</i> , 1997, 23, 837-849.	0.7	56
48	Quantitative photoacoustic measurement of tissue optical absorption spectrum aided by an optical contrast agent. <i>Optics Express</i> , 2009, 17, 4879.	1.7	56
49	Automated 3D ultrasound image segmentation to aid breast cancer image interpretation. <i>Ultrasonics</i> , 2016, 65, 51-58.	2.1	55
50	Photoacoustic Imaging With a Commercial Ultrasound System and a Custom Probe. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 484-492.	0.7	53
51	Assessment of ultrasonic computed tomography in symptomatic breast patients by discriminant analysis. <i>Ultrasound in Medicine and Biology</i> , 1989, 15, 21-28.	0.7	52
52	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. <i>Optics Express</i> , 2011, 19, 14335.	1.7	52
53	RSNA/QIBA: Shear wave speed as a biomarker for liver fibrosis staging. , 2013, , .		52
54	Ultrasonic estimation of tissue perfusion: A stochastic approach. <i>Ultrasound in Medicine and Biology</i> , 1995, 21, 493-500.	0.7	48

#	ARTICLE	IF	CITATIONS
55	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.	0.8	48
56	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, 675-685.	3.6	47
57	Micromachining for improvement of integrated ultrasonic transducer sensitivity. <i>IEEE Transactions on Electron Devices</i> , 1990, 37, 134-140.	1.6	45
58	Quantitative tissue motion analysis of digitized m-mode images: Gestational differences of fetal lung. <i>Ultrasound in Medicine and Biology</i> , 1990, 16, 561-569.	0.7	45
59	Imaging of joints with laser-based photoacoustic tomography: An animal study. <i>Medical Physics</i> , 2006, 33, 2691-2697.	1.6	45
60	Evaluation of bladder microvasculature with high-resolution photoacoustic imaging. <i>Optics Letters</i> , 2011, 36, 4815.	1.7	45
61	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
62	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.	0.7	43
63	Cavitation nucleation agents for nonthermal ultrasound therapy. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 3480-3486.	0.5	40
64	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
65	Acoustic generation of intra-arterial contrast boluses. <i>Ultrasound in Medicine and Biology</i> , 1995, 21, 757-767.	0.7	38
66	Interlaboratory comparison of ultrasonic attenuation and speed measurements.. <i>Journal of Ultrasound in Medicine</i> , 1986, 5, 569-576.	0.8	37
67	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, 5883-5902.	1.6	37
68	High resolution Physio-chemical Tissue Analysis: Towards Non-invasive In Vivo Biopsy. <i>Scientific Reports</i> , 2016, 6, 16937.	1.6	37
69	Anisotropic ultrasonic backscatter from the renal cortex. <i>Ultrasound in Medicine and Biology</i> , 1988, 14, 507-511.	0.7	36
70	Determination of sample time for T1 measurement. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 675-681.	1.9	36
71	Analysis of refill curve shape in ultrasound contrast agent studies. <i>Medical Physics</i> , 2004, 31, 623-632.	1.6	36
72	3-D color Doppler image quantification of breast masses. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 945-952.	0.7	35

#	ARTICLE	IF	CITATIONS
73	Automated Ultrasound Scanning on a Dual-Modality Breast Imaging System. Journal of Ultrasound in Medicine, 2007, 26, 645-655.	0.8	34
74	Anthropomorphic breast phantoms for assessing ultrasonic imaging system performance and for training ultrasonographers: Part II. Journal of Clinical Ultrasound, 1982, 10, 91-100.	0.4	33
75	Enhanced color flow imaging of breast cancer vasculature: continuous wave Doppler and three-dimensional display. Journal of Ultrasound in Medicine, 1992, 11, 377-385.	0.8	33
76	Evaluating Thin Compression Paddles for Mammographically Compatible Ultrasound. Ultrasound in Medicine and Biology, 2007, 33, 472-482.	0.7	33
77	Image quality of microcalcifications in digital breast tomosynthesis: Effects of projection-view distributions. Medical Physics, 2011, 38, 5703-5712.	1.6	33
78	RSNA QIBA ultrasound shear wave speed Phase II phantom study in viscoelastic media. , 2015, , .		33
79	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
80	Fetal depth and ultrasound path lengths through overlying tissues. Ultrasound in Medicine and Biology, 1989, 15, 629-639.	0.7	32
81	Image registration methods in high-dimensional space. International Journal of Imaging Systems and Technology, 2006, 16, 130-145.	2.7	32
82	Dual-Modality X-Ray-Induced Radiation Acoustic and Ultrasound Imaging for Real-Time Monitoring of Radiotherapy. BME Frontiers, 2020, 2020, .	2.2	31
83	Autocorrelation of integrated power Doppler signals and its application. Ultrasound in Medicine and Biology, 1996, 22, 1053-1057.	0.7	29
84	Anthropomorphic breast phantoms for assessing ultrasonic imaging system performance and for training ultrasonographers: Part I. Journal of Clinical Ultrasound, 1982, 10, 67-75.	0.4	28
85	Acceleration of ultrasound thermal therapy by patterned acoustic droplet vaporization. Journal of the Acoustical Society of America, 2014, 135, 537-544.	0.5	28
86	Multiple Delay and Sum With Enveloping Beamforming Algorithm for Photoacoustic Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 1812-1821.	5.4	28
87	Speckle Decorrelation Flow Measurement with B-Mode US of Contrast Agent Flow in a Phantom and in Rabbit Kidney. Radiology, 1999, 213, 429-437.	3.6	27
88	Anniversary Paper: Evolution of ultrasound physics and the role of medical physicists and the AAPM and its journal in that evolution. Medical Physics, 2009, 36, 411-428.	1.6	27
89	Experimental analysis of T1 imaging with a single-scan, multiple-point, inversion-recovery technique. Magnetic Resonance in Medicine, 1992, 25, 337-343.	1.9	26
90	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

#	ARTICLE	IF	CITATIONS
91	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.	0.8	25
92	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, 155-159.	3.6	24
93	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, 277-281.	1.3	24
94	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
95	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
96	Breast Mass Characterization Using 3-Dimensional Automated Ultrasound as an Adjunct to Digital Breast Tomosynthesis. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 93-104.	0.8	22
97	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.	0.5	21
98	Guidelines for <i>Journal of Ultrasound in Medicine</i> Authors and Reviewers on Measurement and Reporting of Acoustic Output and Exposure. <i>Journal of Ultrasound in Medicine</i> , 2005, 24, 1171-1179.	0.8	21
99	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
100	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
101	Characterization of transmitted motion in fetal lung: Quantitative analysis. <i>Medical Physics</i> , 1989, 16, 333-337.	1.6	19
102	An ionizing radiation acoustic imaging (iRAI) technique for real-time dosimetric measurements for FLASH radiotherapy. <i>Medical Physics</i> , 2020, 47, 5090-5101.	1.6	19
103	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
104	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.	0.7	17
105	High-speed large-angle mammography tomosynthesis system. , 2006, , .		17
106	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
107	First-arrival travelttime sound speed inversion with <i>a priori</i> information. <i>Medical Physics</i> , 2014, 41, 082902.	1.6	17
108	A Modeled Study for Diagnosis of Small Anechoic Masses with Ultrasound. <i>Radiology</i> , 1977, 122, 765-771.	3.6	16

#	ARTICLE	IF	CITATIONS
109	Thermal conductivity and diffusivity of neuroblastoma tumor cells. <i>Medical Physics</i> , 1978, 5, 418-421.	1.6	15
110	MRI scanner variability studies using a semi-automated analysis system. <i>Magnetic Resonance Imaging</i> , 1994, 12, 1089-1097.	1.0	15
111	Automated analysis of multiple performance characteristics in magnetic resonance imaging systems. <i>Medical Physics</i> , 1986, 13, 815-823.	1.6	14
112	Hybrid beamforming and steering with reconfigurable arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 1311-1319.	1.7	13
113	Automated Breast Ultrasound: Dual-Sided Compared with Single-Sided Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 2072-2082.	0.7	13
114	Sonographic Identification of Lung Maturation in the Fetal Lamb. <i>Investigative Radiology</i> , 1983, 18, 18-26.	3.5	12
115	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
116	Full-view photoacoustic tomography using asymmetric distributed sensors optimized with compressed sensing method. <i>Biomedical Signal Processing and Control</i> , 2015, 21, 19-25.	3.5	12
117	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.	3.5	12
118	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
119	Ultrasound imaging as an aid to cancer therapy —II. <i>International Journal of Radiation Oncology Biology Physics</i> , 1976, 1, 335-343.	0.4	11
120	Motion artifacts in quantitative magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 1986, 4, 207-213.	1.0	11
121	Constant soft tissue distance model in pregnancy. <i>Ultrasound in Medicine and Biology</i> , 1989, 15, 27-29.	0.7	11
122	<title>Computerized characterization of breast masses using three-dimensional ultrasound images</title>. , 1998, , .		11
123	Refill model of rabbit kidney vasculature. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1331-1338.	0.7	11
124	Ultrasound of the Fingers for Human Identification Using Biometrics. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 392-399.	0.7	11
125	Lesion Detectability in Ultrasonic Computed Tomography of Symptomatic Breast Patients. <i>Investigative Radiology</i> , 1988, 23, 421-427.	3.5	10
126	Biomedical imaging research opportunities workshop IV: A white paper. <i>Medical Physics</i> , 2007, 34, 673-679.	1.6	10

#	ARTICLE	IF	CITATIONS
127	Spread Spectrum Photoacoustic Tomography With Image Optimization. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 411-419.	2.7	10
128	Preliminary Clinical Experience with a Combined Automated Breast Ultrasound and Digital Breast Tomosynthesis System. Ultrasound in Medicine and Biology, 2018, 44, 734-742.	0.7	10
129	Generalized Filtered Back-Projection Reconstruction in Breast Tomosynthesis. Lecture Notes in Computer Science, 2006, , 167-174.	1.0	10
130	A comparative study of computerized tomography and ultrasound imaging for treatment planning of prostatic carcinoma. International Journal of Radiation Oncology Biology Physics, 1979, 5, 289-294.	0.4	9
131	Analysis of three-dimensional ultrasound Doppler for the detection of prostate cancer. Urology, 2001, 57, 1128-1132.	0.5	9
132	Rapid 3D Imaging of Contrast Flow: Demonstration of a Dual Beam Technique. Ultrasound in Medicine and Biology, 2007, 33, 915-923.	0.7	9
133	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
134	Ultrasound imaging as an aid to cancer therapy-I. International Journal of Radiation Oncology Biology Physics, 1975, 1, 119-132.	0.4	8
135	Intensity distribution, modulation transfer function, and the effective dimension of a line-focus x-ray focal spot. Medical Physics, 1976, 3, 217-223.	1.6	8
136	Spatial registration of temporally separated whole breast 3D ultrasound images. Medical Physics, 2009, 36, 4288-4300.	1.6	8
137	Dual sided automated ultrasound system in the mammographic geometry. , 2011, , .		8
138	Acoustic attenuation imaging of tissue bulk properties with <i>a priori</i> information. Journal of the Acoustical Society of America, 2016, 140, 2113-2122.	0.5	8
139	Rapid evaluation of many pulse echo system characteristics by use of a triggered pulse burst generator with exponential decay. Journal of Clinical Ultrasound, 1976, 4, 259-263.	0.4	7
140	Ultrasound attenuation coefficient in the fetal liver as a function of gestational age. Ultrasound in Medicine and Biology, 1990, 16, 399-407.	0.7	7
141	Hepatic Imaging: Positron Emission Tomography, Digital Angiography, and Nuclear Magnetic Resonance Imaging. Hepatology, 1983, 3, 1024-1030.	3.6	7
142	Photoacoustic imaging for deep targets in the breast using a multichannel 2D array transducer. Proceedings of SPIE, 2011, , .	0.8	7
143	A simulation study of ionizing radiation acoustic imaging (iRAI) as a real-time dosimetric technique for ultra-high dose rate radiotherapy (UHDR-RT). Medical Physics, 2021, 48, 6137-6151.	1.6	7
144	Performance Survey of Ultrasound Instrumentation and Feasibility of Routine Monitoring. Radiology, 1977, 122, 449-454.	3.6	6

#	ARTICLE	IF	CITATIONS
145	Large area MEMS based ultrasound device for cancer detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S135-S138.	0.7	6
146	Adaptive optimization on ultrasonic transmission tomography-based temperature image for biomedical treatment. Chinese Physics B, 2017, 26, 064301.	0.7	6
147	Deformable mapping technique to correlate lesions in digital breast tomosynthesis and automated breast ultrasound images. Medical Physics, 2018, 45, 4402-4417.	1.6	6
148	Mammography Tomosynthesis System for High Performance 3D Imaging. Lecture Notes in Computer Science, 2006, , 137-143.	1.0	6
149	A Hand-Controlled, 3D Ultrasound Guide and Measurement System. Acoustical Imaging, 1997, , 237-242.	0.2	6
150	Automated Registration of Volumes of Interest for a Combined X-Ray Tomosynthesis and Ultrasound Breast Imaging System. Lecture Notes in Computer Science, 2008, , 463-468.	1.0	6
151	Improvement of integrated ultrasonic transducer sensitivity. Sensors and Actuators A: Physical, 1990, 22, 679-682.	2.0	5
152	Deformable mapping using biomechanical models to relate corresponding lesions in digital breast tomosynthesis and automated breast ultrasound images. Medical Image Analysis, 2020, 60, 101599.	7.0	5
153	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
154	Improved digital breast tomosynthesis images using automated ultrasound. Medical Physics, 2014, 41, 061911.	1.6	4
155	Acoustic Performance of Mesh Compression Paddles for a Multimodality Breast Imaging System. Ultrasound in Medicine and Biology, 2014, 40, 1503-1511.	0.7	4
156	Computational analysis and dosimetric evaluation of a commercial irregular-fields computer program. Medical Physics, 1977, 4, 528-534.	1.6	3
157	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
158	Image Registration for Detection and Quantification of Change on Digital Tomosynthesis Mammographic Volumes. American Journal of Roentgenology, 2009, 192, 384-387.	1.0	3
159	Local compression in automated breast ultrasound in the mammographic geometry. , 2010, , .		3
160	3D high resolution photoacoustic imaging based on pure optical photoacoustic microscopy with microring resonator. Proceedings of SPIE, 2014, , .	0.8	3
161	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
162	TU-E-220-02: Combined Pulse Echo, X-Ray Tomosynthetic, Photoacoustic and Speed of Sound Imaging in the Mammographic Geometry. Medical Physics, 2011, 38, 3775-3775.	1.6	3

#	ARTICLE	IF	CITATIONS
163	Acoustic Droplet Vaporization for the Enhancement of Ultrasound Thermal Therapy. Proceedings IEEE Ultrasonics Symposium, 2010, 2010, 221-224.	0.0	3
164	Absolute kilovoltage calibration of a diagnostic x-ray generator. Medical Physics, 1975, 2, 1-4.	1.6	2
165	Characterization of transmitted motion in fetal lung: Quantitative analysis. Medical Physics, 1989, 16, 333-337.	1.6	2
166	Response to "Comment on "Real-time B-mode ultrasound quality control test procedures" [Med Phys. 25, 1547-1551 (1998)]. Medical Physics, 1998, 25, 1552-1554.	1.6	2
167	Functional Imaging with Intraoperative Ultrasound: Detection of Somatosensory Cortex in Dogs with Color-duplex Sonography. Neurosurgery, 2005, 56, 355-363.	0.6	2
168	The role of inertial cavitation in acoustic droplet vaporization. , 2008, , .		2
169	Photoacoustic tomography of small-animal and human peripheral joints. , 2008, , .		2
170	Machine learning for noise removal on breast ultrasound images. , 2010, , .		2
171	Combined photoacoustic and ultrasound imaging of human breast in vivo in the mammographic geometry. Proceedings of SPIE, 2013, , .	0.8	2
172	Functional pitch of a liver: fatty liver disease diagnosis with photoacoustic spectrum analysis. Proceedings of SPIE, 2014, , .	0.8	2
173	Self-characterization of commercial ultrasound probes in transmission acoustic inverse scattering: transducer model and volume integral formulation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 467-480.	1.7	2
174	Limited angle breast ultrasound tomography with <i>a priori</i> information and artifact removal. Proceedings of SPIE, 2017, , .	0.8	2
175	Deformable Mapping Method to Relate Lesions in Dedicated Breast CT Images to Those in Automated Breast Ultrasound and Digital Breast Tomosynthesis Images. Ultrasound in Medicine and Biology, 2020, 46, 750-765.	0.7	2
176	Determination of scan-plane motion using speckle decorrelation: Theoretical considerations and initial test. , 1997, 8, 38.		2
177	Comparison study on the feasibility of photoacoustic power spectrum analysis in osteoporosis detection. Proceedings of SPIE, 2017, , .	0.8	2
178	<title>Phantom Studies Of Imaging Soft Tissue Through Bone With Ultrasound Transaxial Tomography</title>. Proceedings of SPIE, 1976, 0070, 317.	0.8	1
179	Status of Diagnostic Ultrasound Techniques. IEEE Transactions on Nuclear Science, 1979, 26, 27-33.	1.2	1
180	Sub-pixel compounding from elasticity imaging data. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
181	Acoustic droplet vaporization for the enhancement of ultrasound thermal therapy. , 2010, , .		1
182	The release of thrombin, using acoustic droplet vaporization (ADV), from perfluoropentane double emulsions. , 2010, , .		1
183	Quantification of tissue texture with photoacoustic spectrum analysis. Proceedings of SPIE, 2014, , .	0.8	1
184	Characterization of acoustic droplet vaporization and inertial cavitation thresholds in acoustically-responsive tissue scaffolds. , 2014, , .		1
185	Temperature imaging with speed of ultrasonic transmission tomography for medical treatment control: A physical model-based method. Chinese Physics B, 2015, 24, 104303.	0.7	1
186	In vivo biopsy by photoacousticUS based tissue characterization. , 2015, , .		1
187	Adaptive photoacoustic imaging quality optimization with EMD and reconstruction. Proceedings of SPIE, 2016, , .	0.8	1
188	Temperature imaging with ultrasonic transmission tomography for treatment control. AIP Conference Proceedings, 2017, , .	0.3	1
189	Error analysis of speed of sound reconstruction in ultrasound limited angle transmission tomography. Ultrasonics, 2018, 88, 174-184.	2.1	1
190	Determination of scanâ€plane motion using speckle decorrelation: Theoretical considerations and initial test. International Journal of Imaging Systems and Technology, 1997, 8, 38-44.	2.7	1
191	Image Processing and Registration of Opposed View 3D Breast Ultrasound. Lecture Notes in Computer Science, 2012, , 666-672.	1.0	1
192	TU-C-220-06: Photoacoustic Imaging of Deep Targets in the Breast Using a Multi-Channel 2D Array Transducer. Medical Physics, 2011, 38, 3764-3764.	1.6	1
193	MO-D-218-01: Overview of Methodology and Standards (QIBA, IEC, AIUM and AAPM). Medical Physics, 2012, 39, 3869-3870.	1.6	1
194	Acoustic beam anomalies in automated breast imaging. Journal of Medical Imaging, 2017, 4, 1.	0.8	1
195	<title>Acoustic Exposure Determinations In Diagnostic Ultrasound Responsibilities Of Researchers Studying Biological Effects Of Ultrasound</title>. , 1975, , .		0
196	Toxicity and possible synergistic effects of ultrasound. International Journal of Radiation Oncology Biology Physics, 1976, 1, 377-378.	0.4	0
197	<title>Activities Of The American Association Of Physicists In Medicine And The American Institute Of Ultrasound In Medicine In Ultrasound Instrument Performance Evaluation</title>. Proceedings of SPIE, 1977, 0127, 253.	0.8	0
198	A 25 MHz digital acquisition system and applications to diagnostic ultrasound. , 1981, , .		0

#	ARTICLE	IF	CITATIONS
199	Segmentation-free estimation of volume changes in 3D ultrasound of breast lesion phantoms. , 2007, , .		0
200	Mean echo power as a measure of flow reduction for bubble occlusion therapy. , 2008, , .		0
201	Optimization of beams with nonspherical extended depths of focus for reconfigurable 2D arrays. , 2008, , .		0
202	Quantitative measurement of tissue optical absorption spectrum in a scattering medium by photoacoustic technique. Proceedings of SPIE, 2009, , .	0.8	0
203	Reflection mode photoacoustic imaging through infant skull toward noninvasive imaging of neonatal brains. Proceedings of SPIE, 2009, , .	0.8	0
204	Ultrasonic delivery of a chemotherapeutic agent using acoustic droplet vaporization (ADV). , 2009, , .		0
205	Quantitative photoacoustic measurement of blood oxygen saturation in vivo aided by an optical contrast agent. Proceedings of SPIE, 2010, , .	0.8	0
206	A high-speed photoacoustic tomography system based on a commercial ultrasound and a custom transducer array. , 2010, , .		0
207	Ultrasound thermal ablation system and methods for treatment of breast cancer. , 2012, , .		0
208	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. Proceedings of SPIE, 2012, , .	0.8	0
209	3D high-resolution pure optical photoacoustic microscopy. Proceedings of SPIE, 2012, , .	0.8	0
210	Photoacoustic correlation spectroscopy for in vivo blood flow speed measurement. , 2012, , .		0
211	High resolution photoacoustic imaging of microvasculature in normal and cancerous bladders. , 2013, , .		0
212	Viewing individual cells and ambient microvasculature using two molecular contrasts. Proceedings of SPIE, 2013, , .	0.8	0
213	Simultaneous Viewing of Individual Cells and Ambient Microvasculature Using Optical Absorption and Fluorescence Contrasts. Molecular Imaging, 2013, 12, 7290.2013.00064.	0.7	0
214	A real-time photoacoustic and ultrasound dual-modality imaging system facilitated with GPU and code parallel optimization. , 2014, , .		0
215	Novel image optimization on photoacoustic tomography. , 2014, , .		0
216	Novel optimization method for multi-dimensional breast photoacoustic tomography. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
217	Automated 3D ultrasound image segmentation for assistant diagnosis of breast cancer. Proceedings of SPIE, 2016, , .	0.8	0
218	Adipocyte property evaluation with photoacoustic spectrum analysis: a feasibility study on human tissues. Proceedings of SPIE, 2017, , .	0.8	0
219	Accelerating ultrasound speed of sound tomography through reflection and transmission imaging. , 2017, , .		0
220	Accelerating ultrasound speed of sound tomography through reflection and transmission imaging. , 2017, , .		0
221	TU-E-201C-09: Photoacoustic Tomography for Imaging in the Mammographic Geometry. Medical Physics, 2010, 37, 3406-3406.	1.6	0
222	TU-A-201C-02: Multi-modality Breast Imaging Systems: Tomo/Ultrasound/Optics, Ultrasound. Medical Physics, 2010, 37, 3371-3372.	1.6	0
223	MO-D-220-10: Automatic Quality Control Processing for Detection of Elements Dropout in Ultrasound Transducers. Medical Physics, 2011, 38, 3719-3719.	1.6	0
224	WE-E-220-08: Image Based Microwave Focusing for Transcutaneous Therapy in Combination with Focused Ultrasound Heating. Medical Physics, 2011, 38, 3825-3825.	1.6	0
225	TH-A-207B-00: Shear-Wave Imaging and a QIBA US Biomarker Update. Medical Physics, 2016, 43, 3866-3867.	1.6	0
226	Photoacoustic Tomography: A New Imaging Technology for Inflammatory Arthritis. , 2017, , 443-450.		0
227	Ultrasound transducer tracking system for correlation of masses in combined x-ray and manual breast ultrasound imaging. , 2018, , .		0
228	Mild-Hyperthermia Generation and Control with a Ring-based Ultrasound Tomography. , 2021, , .		0
229	Feasibility of ultrasound tomography-guided localized mild hyperthermia using a ring transducer: Ex vivo and in silico studies. Medical Physics, 0, , .	1.6	0