

William D O brien Jr

List of Publications by Year in Descending Order

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

109
papers

2,452
citations

28
h-index

45
g-index

121
ext. papers

2,891
ext. citations

3.4
avg, IF

5.16
L-index

#	Paper	IF	Citations
109	Direct Comparison of Quantitative US versus Controlled Attenuation Parameter for Liver Fat Assessment Using MRI Proton Density Fat Fraction as the Reference Standard in Patients Suspected of Having NAFLD.. <i>Radiology</i> , 2022 , 211131	20.5	0
108	Liver Fat Assessment in Multiview Sonography Using Transfer Learning With Convolutional Neural Networks. <i>Journal of Ultrasound in Medicine</i> , 2021 ,	2.9	5
107	Positive chronotropic effect caused by transthoracic ultrasound in heart of rats. <i>JASA Express Letters</i> , 2021 , 1, 082001		
106	Noninvasive Diagnosis of Nonalcoholic Fatty Liver Disease and Quantification of Liver Fat with Radiofrequency Ultrasound Data Using One-dimensional Convolutional Neural Networks. <i>Radiology</i> , 2020 , 295, 342-350	20.5	33
105	Reasons Why Pregnant Women Participate in Ultrasound Research Involving Transvaginal Scans. <i>Journal of Ultrasound in Medicine</i> , 2020 , 39, 1581-1587	2.9	
104	Assessment of Hepatic Steatosis in Nonalcoholic Fatty Liver Disease by Using Quantitative US. <i>Radiology</i> , 2020 , 295, 106-113	20.5	17
103	Therapeutic Ultrasound in Cardiovascular Medicine. <i>Journal of Ultrasound in Medicine</i> , 2020 , 40, 1061	2.9	1
102	A Phantom-Based Assessment of Repeatability and Reproducibility of Transvaginal Quantitative Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 1413-1421	3.2	1
101	Inter-platform reproducibility of ultrasonic attenuation and backscatter coefficients in assessing NAFLD. <i>European Radiology</i> , 2019 , 29, 4699-4708	8	14
100	Improved Assessment of Hepatic Steatosis in Humans Using Multi-Parametric Quantitative Ultrasound 2019 ,		1
99	Quantitative Ultrasound and the Pancreas: Demonstration of Early Detection Capability. <i>Journal of Ultrasound in Medicine</i> , 2019 , 38, 2093-2102	2.9	2
98	Low fat but not soy protein isolate was an effective intervention to reduce nonalcoholic fatty liver disease progression in C57BL/6J mice: monitored by a novel quantitative ultrasound (QUS) method. <i>Nutrition Research</i> , 2019 , 63, 95-105	4	2
97	Repeatability and Reproducibility of the Ultrasonic Attenuation Coefficient and Backscatter Coefficient Measured in the Right Lobe of the Liver in Adults With Known or Suspected Nonalcoholic Fatty Liver Disease. <i>Journal of Ultrasound in Medicine</i> , 2018 , 37, 1913-1927	2.9	29
96	Analysis of Two Quantitative Ultrasound Approaches. <i>Ultrasonic Imaging</i> , 2018 , 40, 84-96	1.9	2
95	Inter-sonographer reproducibility of quantitative ultrasound outcomes and shear wave speed measured in the right lobe of the liver in adults with known or suspected non-alcoholic fatty liver disease. <i>European Radiology</i> , 2018 , 28, 4992-5000	8	23
94	The Negative Chronotropic Effect in Rat Heart Stimulated by Ultrasonic Pulses: Role of Sex and Age. <i>Journal of Ultrasound in Medicine</i> , 2017 , 36, 799-808	2.9	2
93	A Pilot Comparative Study of Quantitative Ultrasound, Conventional Ultrasound, and MRI for Predicting Histology-Determined Steatosis Grade in Adult Nonalcoholic Fatty Liver Disease. <i>American Journal of Roentgenology</i> , 2017 , 208, W168-W177	5.4	67

92	Deletion of the Gene Results in a Vaccinia Virus That Is Less Pathogenic Due to Muted Innate Immune Responses, yet Still Elicits Protective Immunity. <i>Journal of Virology</i> , 2017 , 91,	6.6	11
91	Repeatability and Reproducibility of a Clinically Based QUS Phantom Study and Methodologies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 218-231	3.2	19
90	Limitations on estimation of effective scatterer diameters. <i>Journal of the Acoustical Society of America</i> , 2017 , 142, 3677	2.2	2
89	Targeted Ultrasound-Assisted Cancer-Selective Chemical Labeling and Subsequent Cancer Imaging using Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5452-6	16.4	58
88	Dietary Tomato Reduces Castration-Resistant Prostate Cancer Burden in the TRAMP Model. <i>FASEB Journal</i> , 2016 , 30, 147.1	0.9	1
87	Targeted Ultrasound-Assisted Cancer-Selective Chemical Labeling and Subsequent Cancer Imaging using Click Chemistry. <i>Angewandte Chemie</i> , 2016 , 128, 5542-5546	3.6	14
86	Structure Function Estimated From Histological Tissue Sections. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 1296-305	3.2	4
85	Design of Albumin-Coated Microbubbles Loaded With Polylactide Nanoparticles. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 1363-72	2.9	2
84	Quantitative Ultrasound Comparison of MAT and 4T1 Mammary Tumors in Mice and Rats Across Multiple Imaging Systems. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 1373-83	2.9	10
83	Contrast Ultrasound Imaging of the Aorta Does Not Affect Progression of Atherosclerosis or Cardiovascular Biomarkers in ApoE ^{-/-} Mice. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 1115-22	2.9	3
82	Contrast Ultrasound Imaging Does Not Affect Heat Shock Protein 70 Expression in Cholesterol-Fed Rabbit Aorta. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 1209-16	2.9	
81	Structure function for high-concentration biophantoms of polydisperse scatterer sizes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 303-18	3.2	16
80	Beyond Cervical Length: A Pilot Study of Ultrasonic Attenuation for Early Detection of Preterm Birth Risk. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 3023-9	3.5	20
79	Noninvasive Diagnosis of Nonalcoholic Fatty Liver Disease and Quantification of Liver Fat Using a New Quantitative Ultrasound Technique. <i>Clinical Gastroenterology and Hepatology</i> , 2015 , 13, 1337-1345.e6	6.9	135
78	Effects of Tomato and Soy Germ on Lipid Bioaccumulation and Atherosclerosis in ApoE ^{-/-} Mice. <i>Journal of Food Science</i> , 2015 , 80, H1918-25	3.4	7
77	Development of an ultrasonic method to detect cervical remodeling in vivo in full-term pregnant women. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 2533-9	3.5	17
76	Quantitative analysis of ultrasound contrast agent postexcitation collapse. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1237-41	3.2	3
75	The role of the duty factor in ultrasound-mediated cardiac stimulation. <i>Journal of the Acoustical Society of America</i> , 2014 , 136, EL231	2.2	5

74	Accurate diagnosis of nonalcoholic fatty liver disease in human participants via quantitative ultrasound 2014 ,		11
73	Techniques and evaluation from a cross-platform imaging comparison of quantitative ultrasound parameters in an in vivo rodent fibroadenoma model. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1386-400	3.2	16
72	Optimization of a Low Magnesium, Cholesterol-Containing Diet for the Development of Atherosclerosis in Rabbits. <i>Journal of Food Research</i> , 2013 , 2, 168-178	1.3	3
71	The measurement of ultrasound backscattering from cell pellet biophantoms and tumors ex vivo. <i>Journal of the Acoustical Society of America</i> , 2013 , 134, 686-93	2.2	19
70	Evaluation of the temporal stability of Definity using double passive cavitation detection. <i>Journal of Ultrasound in Medicine</i> , 2013 , 32, 1535-7	2.9	2
69	Contrast ultrasound imaging of the aorta does not affect progression of atherosclerosis in ApoE $\Delta\Delta$ mice. <i>FASEB Journal</i> , 2013 , 27, 1073.1	0.9	
68	Ultrasound imaging to monitor prostate tumor progression and metastases in TRAMP mice. <i>FASEB Journal</i> , 2013 , 27, 638.5	0.9	
67	Transthoracic cardiac ultrasonic stimulation induces a negative chronotropic effect. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 2655-61	3.2	10
66	The angiogenic response is dependent on ultrasound contrast agent concentration. <i>Vascular Cell</i> , 2012 , 4, 10	1	4
65	Contrast ultrasound imaging of the aorta alters vascular morphology and circulating von Willebrand factor in hypercholesterolemic rabbits. <i>Journal of Ultrasound in Medicine</i> , 2012 , 31, 711-20	2.9	7
64	Estimating concentration of ultrasound contrast agents with backscatter coefficients: experimental and theoretical aspects. <i>Journal of the Acoustical Society of America</i> , 2012 , 131, 2295-305	2.2	4
63	Cross-imaging system comparison of backscatter coefficient estimates from a tissue-mimicking material. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 1319-24	2.2	29
62	Development of a theoretical model describing sonoporation activity of cells exposed to ultrasound in the presence of contrast agents. <i>Journal of the Acoustical Society of America</i> , 2012 , 131, 2723-9	2.2	24
61	Comparison of ultrasound attenuation and backscatter estimates in layered tissue-mimicking phantoms among three clinical scanners. <i>Ultrasonic Imaging</i> , 2012 , 34, 209-21	1.9	40
60	Quantitative ultrasound from single cells to biophantoms to tumors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 1118-20	0.9	4
59	Contrast ultrasound imaging does not affect Hsp70 expression in cholesterol-fed rabbit aorta. <i>FASEB Journal</i> , 2012 , 26, 637.10	0.9	
58	Three-dimensional impedance map analysis of rabbit liver. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, EL334-8	2.2	7
57	Frequency-dependent evaluation of the role of definity in producing sonoporation of Chinese hamster ovary cells. <i>Journal of Ultrasound in Medicine</i> , 2011 , 30, 61-9	2.9	29

56	Ultrasonic attenuation and backscatter coefficient estimates of rodent-tumor-mimicking structures: comparison of results among clinical scanners. <i>Ultrasonic Imaging</i> , 2011 , 33, 233-50	1.9	35
55	Ultrasound contrast agents affect the angiogenic response. <i>Journal of Ultrasound in Medicine</i> , 2011 , 30, 933-41	2.9	8
54	Comparison of algorithms for estimating ultrasound attenuation when predicting cervical remodeling in a rat model 2011 ,		2
53	Ultrasonic backscatter coefficient quantitative estimates from high-concentration Chinese Hamster Ovary cell pellet biophantoms. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 4139-47	2.2	20
52	Comparison between maximum radial expansion of ultrasound contrast agents and experimental postexcitation signal results. <i>Journal of the Acoustical Society of America</i> , 2011 , 129, 114-21	2.2	31
51	Validated sandwich ELISA for the quantification of von Willebrand factor in rabbit plasma. <i>Biomarker Insights</i> , 2010 , 5, 119-27	3.5	8
50	Ultrasonic backscatter coefficients for weakly scattering, agar spheres in agar phantoms. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 903-8	2.2	13
49	Interlaboratory comparison of backscatter coefficient estimates for tissue-mimicking phantoms. <i>Ultrasonic Imaging</i> , 2010 , 32, 48-64	1.9	39
48	Determination of postexcitation thresholds for single ultrasound contrast agent microbubbles using double passive cavitation detection. <i>Journal of the Acoustical Society of America</i> , 2010 , 127, 3449-55 ²	2.2	34
47	Cross-imaging platform comparison of ultrasonic backscatter coefficient measurements of live rat tumors. <i>Journal of Ultrasound in Medicine</i> , 2010 , 29, 1117-23	2.9	14
46	A temporal study of ultrasound contrast agent-induced changes in capillary density. <i>Journal of Ultrasound in Medicine</i> , 2010 , 29, 1267-75	2.9	14
45	Using passive cavitation detection to observe postexcitation response of ultrasound contrast agents 2009 ,		1
44	Threshold estimation and superthreshold behavior of ultrasound-induced lung hemorrhage in rats: role of age dependency. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 129-35	3.5	2
43	Inadequate dietary magnesium intake increases atherosclerotic plaque development in rabbits. <i>Nutrition Research</i> , 2009 , 29, 343-9	4	38
42	2009 ,		1
41	Estimation of the acoustic impedance of lung versus level of inflation for different species and ages of animals. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 2340-52	2.2	14
40	Improvement of in vitro thrombolysis employing magnetically-guided microspheres. <i>Thrombosis Research</i> , 2008 , 121, 799-811	8.2	42
39	The risk of exposure to diagnostic ultrasound in postnatal subjects: thermal effects. <i>Journal of Ultrasound in Medicine</i> , 2008 , 27, 517-35; quiz 537-40	2.9	58

38	Examination of inertial cavitation of Optison in producing sonoporation of chinese hamster ovary cells. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 2009-18	3.5	75
37	Hemorrhage near fetal rat bone exposed to pulsed ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 311-7	3.5	10
36	Evaluation of the threshold for lung hemorrhage by diagnostic ultrasound and a proposed new safety index. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 810-8	3.5	28
35	Ultrasound-biophysics mechanisms. <i>Progress in Biophysics and Molecular Biology</i> , 2007 , 93, 212-55	4.7	399
34	Dietary Magnesium Intake, Inflammation, and Atherosclerotic Plaque Development in Rabbits. <i>FASEB Journal</i> , 2007 , 21, A359	0.9	
33	Vascular lesions and s-thrombomodulin concentrations from auricular arteries of rabbits infused with microbubble contrast agent and exposed to pulsed ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1781-91	3.5	15
32	Application of three scattering models to characterization of solid tumors in mice. <i>Ultrasonic Imaging</i> , 2006 , 28, 83-96	1.9	56
31	Ultrasonic contrast agent shell rupture detected by inertial cavitation and rebound signals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 126-36	3.2	77
30	Superthreshold behavior of ultrasound-induced lung hemorrhage in adult rats: role of pulse repetition frequency and pulse duration. <i>Journal of Ultrasound in Medicine</i> , 2006 , 25, 873-82	2.9	9
29	Ultrasonic Imaging of Micro-Leaks and Seal Contamination in Flexible Food Packages by the Pulse-Echo Technique. <i>Journal of Food Science</i> , 2006 , 63, 673-678	3.4	17
28	Threshold estimation of ultrasound-induced lung hemorrhage in adult rabbits and comparison of thresholds in mice, rats, rabbits and pigs. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1793-804	3.5	22
27	Lesions of ultrasound-induced lung hemorrhage are not consistent with thermal injury. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1763-70	3.5	20
26	Interlaboratory comparison of ultrasonic backscatter coefficient measurements from 2 to 9 MHz. <i>Journal of Ultrasound in Medicine</i> , 2005 , 24, 1235-50	2.9	99
25	Superthreshold behavior of ultrasound-induced lung hemorrhage in adult rats: role of pulse repetition frequency and exposure duration revisited. <i>Journal of Ultrasound in Medicine</i> , 2005 , 24, 339-48	2.9	8
24	Identifying ultrasonic scattering sites from three-dimensional impedance maps. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 413-23	2.2	57
23	Effect of contrast agent on the incidence and magnitude of ultrasound-induced lung hemorrhage in rats. <i>Echocardiography</i> , 2004 , 21, 417-22	1.5	17
22	Excess risk thresholds in ultrasound safety studies: statistical methods for data on occurrence and size of lesions. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 1289-95	3.5	5
21	Evaluation of unscanned-mode soft-tissue thermal index for rectangular sources and proposed new indices. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 965-72	3.5	18

20	Ultrasonic Pulse-Echo Subwavelength Defect Detection Mechanism: Experiment and Simulation. <i>Journal of Nondestructive Evaluation</i> , 2003 , 22, 103-115	2.1	2
19	Threshold estimates and superthreshold behavior of ultrasound-induced lung hemorrhage in adult rats: role of pulse duration. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 1625-34	3.5	25
18	Superthreshold behavior and threshold estimation of ultrasound-induced lung hemorrhage in pigs: role of age dependency. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 153-69	3.2	31
17	Effect of pulse polarity and energy on ultrasound-induced lung hemorrhage in adult rats. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 2912-8	2.2	19
16	Arrhythmias in rat hearts exposed to pulsed ultrasound after intravenous injection of a contrast agent. <i>Journal of Ultrasound in Medicine</i> , 2002 , 21, 1347-56; discussion 1343-45	2.9	44
15	Ultrasound-induced lung hemorrhage: role of acoustic boundary conditions at the pleural surface. <i>Journal of the Acoustical Society of America</i> , 2002 , 111, 1102-9	2.2	34
14	Attenuation coefficient and propagation speed estimates of intercostal tissue as a function of pig age. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1421-9	3.2	6
13	Attenuation coefficient and propagation speed estimates of rat and pig intercostal tissue as a function of temperature. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1411-20	3.2	31
12	Acoustic output upper limits proposition: should upper limits be retained?. <i>Journal of Ultrasound in Medicine</i> , 2002 , 21, 1335-41	2.9	18
11	Parametric imaging of rat mammary tumors in vivo for the purposes of tissue characterization. <i>Journal of Ultrasound in Medicine</i> , 2002 , 21, 1201-10	2.9	36
10	Measurement of Attenuation and Speed of Sound in Soils 2002 , 66, 788		18
9	Measurement of Attenuation and Speed of Sound in Soils. <i>Soil Science Society of America Journal</i> , 2002 , 66, 788-796	2.5	48
8	Diagnostic ultrasound should be performed without upper intensity limits. <i>Medical Physics</i> , 2001 , 28, 1-3	4.4	5
7	Assessing the Risks for Modern Diagnostic Ultrasound Imaging. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 2781-2788	1.4	16
6	Behavioral effects of prenatal exposure to pulsed-wave ultrasound in unanesthetized rats. <i>Teratology</i> , 1996 , 54, 65-72		9
5	Teratologic evaluation of rats prenatally exposed to pulsed-wave ultrasound. <i>Teratology</i> , 1994 , 49, 150-5		13
4	Behavioral teratologic effects of prenatal exposure to continuous-wave ultrasound in unanesthetized rats. <i>Teratology</i> , 1994 , 50, 238-49		21
3	A teratologic evaluation of continuous-wave, daily ultrasound exposure in unanesthetized pregnant rats. <i>Teratology</i> , 1991 , 44, 667-74		18

- 2 In situ exposimetry: the ovarian ultrasound examination. *Ultrasound in Medicine and Biology*, **1991**, 17, 257-63 3.5 12
- 1 Ultrasonic bioeffects: a view of experimental studies. *Birth*, **1984**, 11, 149-57 3.1 5