

James G Miller

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/11308526/james-g-miller-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

119
papers

4,096
citations

37
h-index

60
g-index

126
ext. papers

4,474
ext. citations

3
avg, IF

4.52
L-index

#	Paper	IF	Citations
119	Toward 3-D Echocardiographic Determination of Regional Myofiber Structure. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 607-18	3.5	3
118	Patients with Diabetes and Significant Epicardial Coronary Artery Disease Have Increased Systolic Left Ventricular Apical Rotation and Rotation Rate at Rest. <i>Echocardiography</i> , 2016 , 33, 537-45	1.5	1
117	Conventional, Bayesian, and Modified Prony's methods for characterizing fast and slow waves in equine cancellous bone. <i>Journal of the Acoustical Society of America</i> , 2015 , 138, 594-604	2.2	7
116	Single mode analysis appears to overestimate the attenuation of human calcaneal bone based on Bayesian-derived fast and slow wave mode analysis 2012 ,		1
115	Cancellous bone fast and slow waves obtained with Bayesian probability theory correlate with porosity from computed tomography. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 1830-7	2.2	21
114	Echocardiographic-based assessment of myocardial fiber structure in individual, excised hearts. <i>Ultrasonic Imaging</i> , 2012 , 34, 129-41	1.9	6
113	Determining attenuation properties of interfering fast and slow ultrasonic waves in cancellous bone. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 2233-40	2.2	30
112	Characterization of the fast wave in cancellous bone using the Bayesian probability theory approach 2011 ,		1
111	Layer-dependent variation in the anisotropy of apparent integrated backscatter from human coronary arteries. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 632-41	3.5	2
110	Bayesian parameter estimation for characterizing the cyclic variation of echocardiographic backscatter to assess the hearts of asymptomatic type 2 diabetes mellitus subjects. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 805-12	3.5	1
109	The diastolic function to cyclic variation of myocardial ultrasonic backscatter relation: the influence of parameterized diastolic filling (PDF) formalism determined chamber properties. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1185-95	3.5	2
108	Phase Velocity of Cancellous Bone: Negative Dispersion Arising from Fast and Slow Waves, Interference, Diffraction, and Phase Cancellation at Piezoelectric Receiving Elements 2011 , 319-330		3
107	Improving the reproducibility of the cyclic variation of myocardial backscatter. <i>Ultrasonic Imaging</i> , 2010 , 32, 243-54	1.9	
106	Inverse problems in cancellous bone: estimation of the ultrasonic properties of fast and slow waves using Bayesian probability theory. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 2940-8	2.2	29
105	Echocardiographic tissue characterization demonstrates differences in the left and right sides of the ventricular septum. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1653-61	3.5	4
104	Bone sonometry: reducing phase aberration to improve estimates of broadband ultrasonic attenuation. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, 522-9	2.2	9
103	Quantitative analysis of the magnitude and time delay of cyclic variation of myocardial backscatter from asymptomatic type 2 diabetes mellitus subjects. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1458-67	3.5	7

102	Extracting fast and slow wave velocities and attenuations from experimental measurements of cancellous bone using Bayesian probability theory 2009 ,		1
101	DECOMPOSITION OF INTERFERING ULTRASONIC WAVES IN BONE AND BONE-MIMICKING MATERIALS 2009 ,		3
100	Interference between wave modes may contribute to the apparent negative dispersion observed in cancellous bone. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 1781-9	2.2	55
99	Negative dispersion in bone: the role of interference in measurements of the apparent phase velocity of two temporally overlapping signals. <i>Journal of the Acoustical Society of America</i> , 2008 , 123, 2407-14	2.2	34
98	Measurement artifacts in sonometry of cancellous bone: The relative impact of phase cancellation and interference on measurements of phase-distorting phantoms 2008 ,		2
97	Finite amplitude measurements of the nonlinear parameter B/A for liquid mixtures spanning a range relevant to tissue harmonic mode. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 620-9	3.5	25
96	Plane wave source with minimal harmonic distortion for investigating nonlinear acoustic properties. <i>Journal of the Acoustical Society of America</i> , 2007 , 122, 91-6	2.2	3
95	Is the Kramers-Kronig relationship between ultrasonic attenuation and dispersion maintained in the presence of apparent losses due to phase cancellation?. <i>Journal of the Acoustical Society of America</i> , 2007 , 122, 222-8	2.2	15
94	Anisotropy of the backscatter coefficient of formalin-fixed ovine myocardium. <i>Journal of the Acoustical Society of America</i> , 2007 , 122, 581-6	2.2	5
93	Characterization of anisotropic myocardial backscatter using spectral slope, intercept and midband fit parameters. <i>Ultrasonic Imaging</i> , 2007 , 29, 122-34	1.9	37
92	Bayesian estimation of the underlying bone properties from mixed fast and slow mode ultrasonic signals. <i>Journal of the Acoustical Society of America</i> , 2007 , 121, EL8-15	2.2	39
91	Ultrasonic detection of the anisotropy of protein cross linking in myocardium at diagnostic frequencies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1360-9	3.2	7
90	Measurements of the cyclic variation of myocardial backscatter from two-dimensional echocardiographic images as an approach for characterizing diabetic cardiomyopathy. <i>Journal of the Cardiometabolic Syndrome</i> , 2006 , 1, 149-52		14
89	Elastic stiffness coefficients (c_{11} , C_{33} , and C_{13}) for freshly excised and formalin-fixed myocardium from ultrasonic velocity measurements. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 1880-7	2.2	11
88	Measurements of the anisotropy of ultrasonic attenuation in freshly excised myocardium. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 3130-9	2.2	23
87	Anomalous negative dispersion in bone can result from the interference of fast and slow waves. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, EL55-61	2.2	57
86	The frequency dependence of ultrasonic velocity and the anisotropy of dispersion in both freshly excised and formalin-fixed myocardium. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 603-10	3.5	12
85	Causality-imposed (Kramers-Kronig) relationships between attenuation and dispersion. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 822-33	3.2	126

84	Estimating myocardial attenuation from M-mode ultrasonic backscatter. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 477-84	3.5	15
83	Anisotropy of apparent backscatter in the short-axis view of mouse hearts. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 1623-9	3.5	16
82	Measurements of the anisotropy of ultrasonic velocity in freshly excised and formalin-fixed myocardial tissue. <i>Journal of the Acoustical Society of America</i> , 2005 , 118, 505-13	2.2	20
81	Effects of region-of-interest length on estimates of myocardial ultrasonic attenuation and backscatter. <i>Medical Physics</i> , 2005 , 32, 418-26	4.4	9
80	Causal determination of acoustic group velocity and frequency derivative of attenuation with finite-bandwidth Kramers-Kronig relations. <i>Physical Review E</i> , 2005 , 72, 016604	2.4	14
79	Potential relationships among myocardial stiffness, the measured level of myocardial backscatter ("image brightness"), and the magnitude of the systematic variation of backscatter (cyclic variation) over the heart cycle. <i>Journal of the American Society of Echocardiography</i> , 2004 , 17, 1131-7	5.8	19
78	Ultrasonic tissue characterization of the mouse myocardium: successful in vivo cyclic variation measurements. <i>Journal of the American Society of Echocardiography</i> , 2004 , 17, 883-92	5.8	14
77	Differential forms of the Kramers-Krö̃ig dispersion relations. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 68-76	3.2	61
76	Chronological age modifies the microscopic remodeling process in viable cardiac tissue after infarction. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 659-69	3.5	5
75	Transmural variation of myocardial attenuation measured with a clinical imager. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 1643-50	3.5	17
74	Ultrasonic tissue characterization: review of an approach to assess hypertrophic myocardium. <i>Echocardiography</i> , 2001 , 18, 593-7	1.5	15
73	Experimental validation of the use of Kramers-Kronig relations to eliminate the phase sheet ambiguity in broadband phase spectroscopy. <i>Journal of the Acoustical Society of America</i> , 2001 , 109, 2236-44	2.2	16
72	Improved description of shock wave evolution in media with frequency power law dependent attenuation. <i>Journal of the Acoustical Society of America</i> , 2001 , 109, 2263-5	2.2	6
71	Transmural variation of myocardial attenuation and its potential effect on contrast-mediated estimates of regional myocardial perfusion. <i>Journal of the American Society of Echocardiography</i> , 2001 , 14, 782-8	5.8	8
70	Broadband time-domain reflectometry measurement of attenuation and phase velocity in highly attenuating suspensions with application to the ultrasound contrast medium Albunex. <i>Journal of the Acoustical Society of America</i> , 2000 , 108, 813-20	2.2	9
69	Kramers-Kronig relations applied to finite bandwidth data from suspensions of encapsulated microbubbles. <i>Journal of the Acoustical Society of America</i> , 2000 , 108, 2091-106	2.2	24
68	The extracellular matrix is an important source of ultrasound backscatter from myocardium. <i>Journal of the Acoustical Society of America</i> , 2000 , 107, 612-9	2.2	66
67	On a time-domain representation of the Kramers-Kronig dispersion relations. <i>Journal of the Acoustical Society of America</i> , 2000 , 108, 2114-9	2.2	42

66	Cyclic Variation of Integrated Backscatter: Dependence of Time Delay on the Echocardiographic View Used and the Myocardial Segment Analyzed. <i>Journal of the American Society of Echocardiography</i> , 2000 , 13, 9-17	5.8	51
65	In vivo molecular imaging of stretch-induced tissue factor in carotid arteries with ligand-targeted nanoparticles. <i>Journal of the American Society of Echocardiography</i> , 2000 , 13, 608-14	5.8	92
64	On the applicability of Kramers-Kronig relations for ultrasonic attenuation obeying a frequency power law. <i>Journal of the Acoustical Society of America</i> , 2000 , 108, 556-63	2.2	127
63	Measurements and predictions of the phase velocity and attenuation coefficient in suspensions of elastic microspheres. <i>Journal of the Acoustical Society of America</i> , 1999 , 106, 652-659	2.2	42
62	Dependence of "apparent" magnitude on the time delay of cyclic variation of myocardial backscatter. <i>Ultrasound in Medicine and Biology</i> , 1999 , 25, 759-62	3.5	18
61	Broadband measurement of the scattering-to-attenuation ratio for Albunex at 37 degrees C. <i>Ultrasound in Medicine and Biology</i> , 1999 , 25, 1321-4	3.5	10
60	Effects of tissue anisotropy and contrast acoustic properties on myocardial scattering in contrast echocardiography. <i>Journal of the American Society of Echocardiography</i> , 1999 , 12, 564-73	5.8	11
59	Estimation of Left Ventricular Ejection Fraction by Semiautomated Edge Detection. <i>Echocardiography</i> , 1998 , 15, 713-720	1.5	2
58	Effects of myocardial fiber orientation in echocardiography: quantitative measurements and computer simulation of the regional dependence of backscattered ultrasound in the parasternal short-axis view. <i>Journal of the American Society of Echocardiography</i> , 1998 , 11, 929-37	5.8	54
57	CLINICAL IMPLEMENTATION OF ULTRASONIC QUANTITATIVE NONDESTRUCTIVE EVALUATION OF THE HEART: A REVIEW. <i>Nondestructive Testing and Evaluation</i> , 1998 , 14, 217-235	2	
56	Frequency and concentration dependence of the backscatter coefficient of the ultrasound contrast agent Albunex. <i>Journal of the Acoustical Society of America</i> , 1998 , 104, 1654-1666	2.2	43
55	In vitro characterization of a novel, tissue-targeted ultrasonic contrast system with acoustic microscopy. <i>Journal of the Acoustical Society of America</i> , 1998 , 104, 3665-72	2.2	92
54	Broadband measurements of phase velocity in Albunex suspensions. <i>Journal of the Acoustical Society of America</i> , 1998 , 103, 2145-53	2.2	48
53	Effects of tissue anisotropy on the spectral characteristics of ultrasonic backscatter measured with a clinical imaging system. <i>Ultrasonic Imaging</i> , 1998 , 20, 178-90	1.9	7
52	Broadband through-transmission signal loss measurements of Albunex suspensions at concentrations approaching in vivo doses. <i>Journal of the Acoustical Society of America</i> , 1997 , 101, 1155-1161	2.2	54
51	Anisotropy of the apparent frequency dependence of backscatter in formalin fixed human myocardium. <i>Journal of the Acoustical Society of America</i> , 1997 , 101, 563-8	2.2	38
50	Broadband measurements of the attenuation coefficient and backscatter coefficient for suspensions: A potential calibration tool. <i>Journal of the Acoustical Society of America</i> , 1997 , 101, 1162-1171	2.2	33
49	Comparison of integrated backscatter values obtained with acoustic densitometry with values derived from spectral analysis of digitized signals from a clinical imaging system. <i>Journal of the American Society of Echocardiography</i> , 1997 , 10, 511-7	5.8	11

48	Angiotensin II receptor blockade in Syrian hamster (T0-2) cardiomyopathy does not affect microscopic cardiac material properties: implications for mechanisms of tissue remodeling. <i>Cardiovascular Drugs and Therapy</i> , 1997 , 11, 521-9	3.9	7
47	High-frequency ultrasonic detection of thrombi with a targeted contrast system. <i>Ultrasound in Medicine and Biology</i> , 1997 , 23, 863-70	3.5	81
46	Effects of Inherent Tissue Anisotropy on Measurements Obtained with a Clinical Ultrasonic Imaging System 1997 , 1339-1342		
45	Ultrasonic determination of the anisotropy of Young's modulus of fixed tendon and fixed myocardium. <i>Journal of the Acoustical Society of America</i> , 1996 , 100, 3933-40	2.2	61
44	Dissociation between wall thickening of normal myocardium and cyclic variation of backscatter during inotropic stimulation. <i>American Journal of Cardiology</i> , 1996 , 77, 515-20	3	19
43	Anisotropy of the slope of ultrasonic attenuation in formalin fixed human myocardium. <i>Journal of the Acoustical Society of America</i> , 1996 , 99, 3837-43	2.2	32
42	Anisotropy of the transverse mode ultrasonic properties of fixed tendon and fixed myocardium. <i>Journal of the Acoustical Society of America</i> , 1996 , 99, 3826-36	2.2	18
41	Frequency dependence of acoustic backscatter from 5 to 65 MHz (0.06 Journal of the Acoustical Society of America, 1996 , 100, 1841-8	2.2	13
40	A novel site-targeted ultrasonic contrast agent with broad biomedical application. <i>Circulation</i> , 1996 , 94, 3334-40	16.7	294
39	Backscatter from Specific Regions of Human Hearts Obtained from Standard Echocardiography Views 1996 , 1335-1340		1
38	Ultrasonic tissue characterization of end-stage dilated cardiomyopathy. <i>Ultrasound in Medicine and Biology</i> , 1995 , 21, 853-60	3.5	20
37	Estimation of the elastic stiffness coefficient c_{13} of fixed tendon and fixed myocardium. <i>Journal of the Acoustical Society of America</i> , 1995 , 97, 3171-6	2.2	18
36	Comparison of the anisotropy of apparent integrated ultrasonic backscatter from fixed human tendon and fixed human myocardium. <i>Journal of the Acoustical Society of America</i> , 1995 , 97, 1307-13	2.2	44
35	A proposed microscopic elastic wave theory for ultrasonic backscatter from myocardial tissue. <i>Journal of the Acoustical Society of America</i> , 1995 , 97, 656-68	2.2	58
34	Quantitative assessment of myocardial ultrasound tissue characterization through receiver operating characteristic analysis of Bayesian classifiers. <i>Journal of the American College of Cardiology</i> , 1995 , 25, 1706-11	15.1	32
33	Ultrasonic Imaging and Quantitative Nondestructive Evaluation of the Hearts of Patients 1995 , 1741-1748		2
32	Quantitative Echocardiography, Part 2: Automatic Boundary Detection for On-line Assessment of Left Ventricular and Atrial Function. <i>Journal of Diagnostic Medical Sonography</i> , 1994 , 10, 95-103	0.4	1
31	Effect of collagen on the anisotropy of quasi-longitudinal mode ultrasonic velocity in fibrous soft tissues: a comparison of fixed tendon and fixed myocardium. <i>Journal of the Acoustical Society of America</i> , 1994 , 96, 1957-64	2.2	37

30	Two-dimensional echocardiographic automatic boundary detection for evaluation of left ventricular function in unselected adult patients. <i>Journal of the American Society of Echocardiography</i> , 1994 , 7, 459-64	5.8	21
29	Quantification of ultrasonic anisotropy in normal myocardium with lateral gain compensation of two-dimensional integrated backscatter images. <i>Ultrasound in Medicine and Biology</i> , 1993 , 19, 497-505	3.5	41
28	Quantification of ventricular remodeling in the tight-skin mouse cardiomyopathy with acoustic microscopy. <i>Ultrasound in Medicine and Biology</i> , 1993 , 19, 365-74	3.5	23
27	Quantitative Echocardiography, Part 1: Myocardial Tissue Characterization with Analysis of Radiofrequency Signals. <i>Journal of Diagnostic Medical Sonography</i> , 1993 , 9, 122-134	0.4	
26	Ultrasonic backscatter imaging for characterization of cardiac structure and function. <i>Developments in Cardiovascular Medicine</i> , 1993 , 159-168		1
25	Anisotropy of ultrasonic velocity and elastic properties in normal human myocardium. <i>Journal of the Acoustical Society of America</i> , 1992 , 92, 3039-50	2.2	47
24	Identification of human myocardial infarction in vitro based on the frequency dependence of ultrasonic backscatter. <i>Journal of the Acoustical Society of America</i> , 1992 , 91, 3018-25	2.2	20
23	Differentiation of normal and ischemic right ventricular myocardium with quantitative two-dimensional integrated backscatter imaging. <i>Ultrasound in Medicine and Biology</i> , 1992 , 18, 249-53	3.5	13
22	Abnormal myocardial acoustic properties in diabetic patients and their correlation with the severity of disease. <i>Journal of the American College of Cardiology</i> , 1992 , 19, 1154-62	15.1	122
21	On-line assessment of ventricular function by automatic boundary detection and ultrasonic backscatter imaging. <i>Journal of the American College of Cardiology</i> , 1992 , 19, 313-20	15.1	262
20	Automated, on-line quantification of left ventricular dimensions and function by echocardiography with backscatter imaging and lateral gain compensation. <i>American Journal of Cardiology</i> , 1992 , 70, 1200-3	3	97
19	Quantitative ultrasonic imaging: tissue characterization and instantaneous quantification of cardiac function. <i>American Journal of Cardiology</i> , 1992 , 69, 104H-111H	3	21
18	Ultrasonic backscatter tissue characterization in cardiac diagnosis. <i>Clinical Cardiology</i> , 1991 , 14, V4-9	3.3	1
17	Ultrasonic myocardial tissue characterization in the operating room: initial results using transesophageal echocardiography. <i>Journal of the American Society of Echocardiography</i> , 1991 , 4, 541-6	5.8	13
16	Anisotropy of the ultrasonic attenuation in soft tissues: measurements in vitro. <i>Journal of the Acoustical Society of America</i> , 1990 , 88, 1203-10	2.2	79
15	Ultrasonic integrated backscatter two-dimensional imaging: evaluation of M-mode guided acquisition and immediate analysis in 55 consecutive patients. <i>Journal of the American Society of Echocardiography</i> , 1990 , 3, 255-65	5.8	16
14	Myocardial ultrasonic backscatter for characterization of ischemia and reperfusion: relationship to wall motion. <i>Ultrasound in Medicine and Biology</i> , 1990 , 16, 391-8	3.5	35
13	Differentiation between acutely ischemic myocardium and zones of completed infarction in dogs on the basis of frequency-dependent backscatter. <i>Journal of the Acoustical Society of America</i> , 1989 , 85, 2634-41	2.2	49

12	Contraction-related variation in frequency dependence of acoustic properties of canine myocardium. <i>Journal of the Acoustical Society of America</i> , 1989 , 86, 2067-72	2.2	21
11	Early identification with ultrasonic integrated backscatter of viable but stunned myocardium in dogs. <i>Journal of the American College of Cardiology</i> , 1989 , 14, 462-71	15.1	93
10	Ultrasound integrated backscatter tissue characterization of remote myocardial infarction in human subjects. <i>Journal of the American College of Cardiology</i> , 1989 , 13, 84-91	15.1	100
9	Cardiac cycle-dependent variation of integrated backscatter is not distorted by abnormal myocardial wall motion in human subjects with paradoxical septal motion. <i>Ultrasound in Medicine and Biology</i> , 1989 , 15, 311-7	3.5	21
8	Detection of remote myocardial infarction with quantitative real-time ultrasonic characterization. <i>Journal of the American Society of Echocardiography</i> , 1988 , 1, 179-86	5.8	27
7	Progress in quantitative ultrasonic characterization of myocardium: from the laboratory to the bedside. <i>Journal of the American Society of Echocardiography</i> , 1988 , 1, 294-305	5.8	50
6	Ultrasonic characterization of myocardium. <i>Progress in Cardiovascular Diseases</i> , 1985 , 28, 85-110	8.5	185
5	Changes in ultrasonic attenuation and backscatter of muscle with state of contraction. <i>Ultrasound in Medicine and Biology</i> , 1985 , 11, 605-10	3.5	18
4	Applicability of ultrasonic tissue characterization for longitudinal assessment and differentiation of calcification and fibrosis in cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 1984 , 4, 88-95 ^{15.1}	15.1	76
3	Detection of ischemic myocardium in vivo through the chest wall by quantitative ultrasonic tissue characterization. <i>American Journal of Cardiology</i> , 1982 , 50, 838-43	3	79
2	Detection of cardiomyopathic changes induced by doxorubicin based on quantitative analysis of ultrasonic backscatter. <i>American Journal of Cardiology</i> , 1981 , 47, 1056-60	3	89
1	Application of phase-insensitive detection and frequency-dependent measurements to computed ultrasonic attenuation tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 1981 , 28, 186-201	5	24