

# Pascal Laugier

## List of Publications by Year in descending order

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308  
papers

9,216  
citations

30070

54  
h-index

64796

79  
g-index

318  
all docs

318  
docs citations

318  
times ranked

3744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional simulations of ultrasonic axial transmission velocity measurement on cortical bone models. <i>Journal of the Acoustical Society of America</i> , 2004, 115, 2314-2324.	1.1	248
2	Ultrasonic characterization of human cancellous bone using transmission and backscatter measurements: relationships to density and microstructure. <i>Bone</i> , 2002, 30, 229-237.	2.9	179
3	Effect of bone cortical thickness on velocity measurements using ultrasonic axial transmission: A 2D simulation study. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 297-307.	1.1	173
4	In vitro assessment of the relationship between acoustic properties and bone mass density of the calcaneus by comparison of ultrasound parametric imaging and quantitative computed tomography. <i>Bone</i> , 1997, 20, 157-165.	2.9	170
5	Velocity dispersion of acoustic waves in cancellous bone. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1998, 45, 581-592.	3.0	154
6	Three-dimensional simulation of ultrasound propagation through trabecular bone structures measured by synchrotron microtomography. <i>Physics in Medicine and Biology</i> , 2005, 50, 5545-5556.	3.0	153
7	Three-Dimensional High-Frequency Backscatter and Envelope Quantification of Cancerous Human Lymph Nodes. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 345-357.	1.5	139
8	Instrumentation for in vivo ultrasonic characterization of bone strength. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 1179-1196.	3.0	136
9	Evaluation of Acoustical Parameter Sensitivity to Age-Related and Osteoarthritic Changes in Articular Cartilage Using 50-MHz Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 341-354.	1.5	122
10	Bidirectional axial transmission can improve accuracy and precision of ultrasonic velocity measurement in cortical bone: a validation on test materials. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 71-79.	3.0	122
11	Bone microstructure and elastic tissue properties are reflected in QUS axial transmission measurements. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1225-1235.	1.5	121
12	Nonlinear resonant ultrasound spectroscopy (NRUS) applied to damage assessment in bone. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 3946-3952.	1.1	117
13	Change in porosity is the major determinant of the variation of cortical bone elasticity at the millimeter scale in aged women. <i>Bone</i> , 2011, 49, 1020-1026.	2.9	116
14	In vitro measurement of the frequency-dependent attenuation in cancellous bone between 0.2 and 2 MHz. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 1281.	1.1	112
15	Variation of Ultrasonic Parameters With Microstructure and Material Properties of Trabecular Bone: A 3D Model Simulation. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 665-674.	2.8	112
16	An In Vitro Study of the Ultrasonic Axial Transmission Technique at the Radius: 1-MHz Velocity Measurements Are Sensitive to Both Mineralization and Intracortical Porosity. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 1548-1556.	2.8	109
17	Comparison of three ultrasonic axial transmission methods for bone assessment. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 633-642.	1.5	105
18	Assessment of the relationship between broadband ultrasound attenuation and bone mineral density at the calcaneus using BUA imaging and DXA. <i>Osteoporosis International</i> , 1997, 7, 316-322.	3.1	97

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19	Derivation of elastic stiffness from site-matched mineral density and acoustic impedance maps. <i>Physics in Medicine and Biology</i> , 2006, 51, 747-758.	3.0	95
20	Guided wave phase velocity measurement using multi-emitter and multi-receiver arrays in the axial transmission configuration. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 2913-2919.	1.1	92
21	Ultrasonic Backscatter and Transmission Parameters at the Os Calcis in Postmenopausal Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 1353-1362.	2.8	91
22	Accurate measurement of cortical bone elasticity tensor with resonant ultrasound spectroscopy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 18, 12-19.	3.1	91
23	Fast wave ultrasonic propagation in trabecular bone: Numerical study of the influence of porosity and structural anisotropy. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 1694-1705.	1.1	88
24	Relationships of trabecular bone structure with quantitative ultrasound parameters: In vitro study on human proximal femur using transmission and backscatter measurements. <i>Bone</i> , 2008, 42, 1193-1202.	2.9	84
25	Three-Dimensional High-Frequency Characterization of Cancerous Lymph Nodes. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 361-375.	1.5	84
26	Combined estimation of thickness and velocities using ultrasound guided waves: a pioneering study on in vitro cortical bone samples. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1478-1488.	3.0	83
27	Assessment of Articular Cartilage and Subchondral Bone: Subtle and Progressive Changes in Experimental Osteoarthritis Using 50 MHz Echography In Vitro. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 1378-1386.	2.8	82
28	In vivo Performance Evaluation of Bi-Directional Ultrasonic Axial Transmission for Cortical Bone Assessment. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 912-919.	1.5	82
29	Broadband ultrasound attenuation imaging: A new imaging method in osteoporosis. <i>Journal of Bone and Mineral Research</i> , 1996, 11, 1112-1118.	2.8	81
30	Analysis of the axial transmission technique for the assessment of skeletal status. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 3058-3065.	1.1	80
31	Propagation of two longitudinal waves in human cancellous bone: An <i>in vitro</i> study. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 3460-3466.	1.1	79
32	A Novel Ultrasound Methodology for Estimating Spine Mineral Density. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 281-300.	1.5	79
33	Site-matched assessment of structural and tissue properties of cortical bone using scanning acoustic microscopy and synchrotron radiation $\mu$ CT. <i>Physics in Medicine and Biology</i> , 2006, 51, 733-746.	3.0	75
34	In vitroultrasonic characterization of human cancellous femoral bone using transmission and backscatter measurements: Relationships to bone mineral density. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 654-663.	1.1	75
35	Broadband ultrasonic attenuation imaging: A new imaging technique of the os calcis. <i>Calcified Tissue International</i> , 1994, 54, 83-86.	3.1	71
36	Ultrasound to Assess Bone Quality. <i>Current Osteoporosis Reports</i> , 2014, 12, 154-162.	3.6	68

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37	<i>In vivo</i> ultrasound imaging of the bone cortex. <i>Physics in Medicine and Biology</i> , 2018, 63, 125010.	3.0	68
38	Prediction of frequency-dependent ultrasonic backscatter in cancellous bone using statistical weak scattering model. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 455-464.	1.5	67
39	Velocity dispersion in trabecular bone: Influence of multiple scattering and of absorption. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 4047-4058.	1.1	66
40	Absolute backscatter coefficient over a wide range of frequencies in a tissue-mimicking phantom containing two populations of scatterers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1996, 43, 970-978.	3.0	64
41	Computerized ultrasound B-scan characterization of breast nodules. <i>Ultrasound in Medicine and Biology</i> , 2000, 26, 1421-1428.	1.5	64
42	High-accuracy acoustic detection of nonclassical component of material nonlinearity. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 2654-2661.	1.1	62
43	Quantitative ultrasound imaging at the calcaneus using an automatic region of interest. <i>Osteoporosis International</i> , 1997, 7, 363-369.	3.1	61
44	Sparse SVD Method for High-Resolution Extraction of the Dispersion Curves of Ultrasonic Guided Waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1514-1524.	3.0	61
45	Application of autoregressive spectral analysis for ultrasound attenuation estimation: interest in highly attenuating medium. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1995, 42, 99-110.	3.0	60
46	Assessment of rat articular cartilage maturation using 50-MHz quantitative ultrasonography. <i>Osteoarthritis and Cartilage</i> , 2001, 9, 178-186.	1.3	60
47	Effect of articular cartilage proteoglycan depletion on high frequency ultrasound backscatter. <i>Osteoarthritis and Cartilage</i> , 2002, 10, 535-541.	1.3	60
48	Prediction of backscatter coefficient in trabecular bones using a numerical model of three-dimensional microstructure. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 1122-1129.	1.1	59
49	Attenuation in trabecular bone: A comparison between numerical simulation and experimental results in human femur. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 2469-2475.	1.1	59
50	Apparent Young's modulus of human radius using inverse finite-element method. <i>Journal of Biomechanics</i> , 2007, 40, 2022-2028.	2.1	59
51	Nonlinear elastodynamics in micro-inhomogeneous solids observed by head-wave based dynamic acoustoelastic testing. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3583-3589.	1.1	58
52	Impact of attenuation on guided mode wavenumber measurement in axial transmission on bone mimicking plates. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3574-3582.	1.1	57
53	A determination of the minimum sizes of representative volume elements for the prediction of cortical bone elastic properties. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 925-937.	2.8	57
54	Phase and group velocities of fast and slow compressional waves in trabecular bone. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 1949-1952.	1.1	56

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55	A method for the estimation of femoral bone mineral density from variables of ultrasound transmission through the human femur. <i>Bone</i> , 2007, 40, 37-44.	2.9	56
56	Microfibril Orientation Dominates the Microelastic Properties of Human Bone Tissue at the Lamellar Length Scale. <i>PLoS ONE</i> , 2013, 8, e58043.	2.5	56
57	Predicting bone strength with ultrasonic guided waves. <i>Scientific Reports</i> , 2017, 7, 43628.	3.3	55
58	Effects of frequency-dependent attenuation and velocity dispersion on in vitro ultrasound velocity measurements in intact human femur specimens. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 39-51.	3.0	54
59	Singular spectrum analysis applied to backscattered ultrasound signals from in vitro human cancellous bone specimens. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 302-312.	3.0	53
60	In vitro chronic hepatic disease characterization with a multiparametric ultrasonic approach. <i>Ultrasonics</i> , 2005, 43, 305-313.	3.9	53
61	Quantitative ultrasound of bone: looking ahead. <i>Joint Bone Spine</i> , 2006, 73, 125-128.	1.6	52
62	Application of Biot's theory to ultrasonic characterization of human cancellous bones: Determination of structural, material, and mechanical properties. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 2415-2423.	1.1	52
63	True stress and Poisson's ratio of tendons during loading. <i>Journal of Biomechanics</i> , 2011, 44, 719-724.	2.1	52
64	Anisotropy of dynamic acoustoelasticity in limestone, influence of conditioning, and comparison with nonlinear resonance spectroscopy. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 3706-3718.	1.1	51
65	Resonant ultrasound spectroscopy for viscoelastic characterization of anisotropic attenuative solid materials. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 2601-2613.	1.1	51
66	< i>In Vivo Characterization of Cortical Bone Using Guided Waves Measured by Axial Transmission. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1361-1371.	3.0	51
67	Modeling the impact of soft tissue on axial transmission measurements of ultrasonic guided waves in human radius. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 2364-2373.	1.1	50
68	Assessment of cortical bone elasticity and strength: Mechanical testing and ultrasound provide complementary data. <i>Medical Engineering and Physics</i> , 2009, 31, 1140-1147.	1.7	50
69	Automatic detection of the boundary of the calcaneus from ultrasound parametric images using an active contour model; clinical assessment. <i>IEEE Transactions on Medical Imaging</i> , 1998, 17, 45-52.	8.9	48
70	Ultrasound Measurement on the Calcaneus: Influence of Immersion Time and Rotation of the Foot. <i>Osteoporosis International</i> , 1999, 9, 318-326.	3.1	48
71	In vitro speed of sound measurement at intact human femur specimens. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 987-996.	1.5	48
72	Femur ultrasound (FemUS) – first clinical results on hip fracture discrimination and estimation of femoral BMD. <i>Osteoporosis International</i> , 2010, 21, 969-976.	3.1	47

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73	Ultrasonically determined thickness of long cortical bones: Two-dimensional simulations of in vitro experiments. Journal of the Acoustical Society of America, 2007, 122, 1818-1826.	1.1	45
74	Elasticity–density and viscoelasticity–density relationships at the tibia mid-diaphysis assessed from resonant ultrasound spectroscopy measurements. Biomechanics and Modeling in Mechanobiology, 2016, 15, 97-109.	2.8	45
75	Ultrasonically determined thickness of long cortical bones: Three-dimensional simulations of in vitro experiments. Journal of the Acoustical Society of America, 2007, 122, 2439-2445.	1.1	44
76	Relationship between ultrasonic parameters and apparent trabecular bone elastic modulus: A numerical approach. Journal of Biomechanics, 2009, 42, 2033-2039.	2.1	44
77	Evaluation of Error Bounds on Calcaneal Speed of Sound Caused by Surrounding Soft Tissue. Journal of Clinical Densitometry, 2000, 3, 121-131.	1.2	43
78	Effect of porosity on effective diagonal stiffness coefficients ( $c_{ii}$ ) and elastic anisotropy of cortical bone at 1MHz: A finite-difference time domain study. Journal of the Acoustical Society of America, 2007, 122, 1810-1817.	1.1	43
79	Bayesian normal modes identification and estimation of elastic coefficients in resonant ultrasound spectroscopy. Inverse Problems, 2015, 31, 065010.	2.0	43
80	A two-parameter model of the effective elastic tensor for cortical bone. Journal of Biomechanics, 2011, 44, 1621-1625.	2.1	42
81	Spatial distribution of tissue level properties in a human femoral cortical bone. Journal of Biomechanics, 2012, 45, 2264-2270.	2.1	42
82	Genetic algorithms-based inversion of multimode guided waves for cortical bone characterization. Physics in Medicine and Biology, 2016, 61, 6953-6974.	3.0	42
83	Characterization of in vitro healthy and pathological human liver tissue periodicity using backscattered ultrasound signals. Ultrasound in Medicine and Biology, 2006, 32, 649-657.	1.5	41
84	Prediction of bone mechanical properties using QUS and pQCT: Study of the human distal radius. Medical Engineering and Physics, 2008, 30, 761-767.	1.7	41
85	Optimal Prediction of Bone Mineral Density with Ultrasonic Measurements in Excised Human Femur. Calcified Tissue International, 2005, 77, 186-192.	3.1	40
86	Introduction to the Physics of Ultrasound. , 2011, , 29-45.		40
87	A device for in vivo measurements of quantitative ultrasound variables at the human proximal femur. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1197-1204.	3.0	39
88	Nonlinear ultrasound can detect accumulated damage in human bone. Journal of Biomechanics, 2008, 41, 1062-1068.	2.1	38
89	Additive Effect of RGD Coating to Functionalized Titanium Surfaces on Human Osteoprogenitor Cell Adhesion and Spreading. Tissue Engineering - Part A, 2008, 14, 1445-1455.	3.1	38
90	Trabecular and cortical bone separately assessed at radius with a new ultrasound device, in a young adult population with various physical activities. Bone, 2010, 46, 1620-1625.	2.9	38

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91	Influence of the filling fluid on frequency-dependent velocity and attenuation in cancellous bones between 0.35 and 2.5 MHz. Journal of the Acoustical Society of America, 2009, 126, 3301-3310.	1.1	37
92	Estimation of Trabecular Thickness Using Ultrasonic Backscatter. Ultrasonic Imaging, 2006, 28, 3-22.	2.6	36
93	Variations of microstructure, mineral density and tissue elasticity in B6/C3H mice. Bone, 2007, 41, 1017-1024.	2.9	36
94	Assessment of Microelastic Properties of Bone Using Scanning Acoustic Microscopy: A Face-to-Face Comparison with Nanoindentation. Japanese Journal of Applied Physics, 2009, 48, 07GK01.	1.5	36
95	Inverse problems in cancellous bone: Estimation of the ultrasonic properties of fast and slow waves using Bayesian probability theory. Journal of the Acoustical Society of America, 2010, 128, 2940-2948.	1.1	36
96	Quantitative ultrasound of cortical bone in the femoral neck predicts femur strength: Results of a pilot study. Journal of Bone and Mineral Research, 2013, 28, 302-312.	2.8	36
97	Wideband dispersion reversal of lamb waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 997-1005.	3.0	36
98	Reproducibility of skin characterization with backscattered spectra (12â€“25 MHz) in healthy subjects. Ultrasound in Medicine and Biology, 2001, 27, 603-610.	1.5	35
99	High resolution ultrasound elastomicroscopy imaging of soft tissues: system development and feasibility. Physics in Medicine and Biology, 2004, 49, 3925-3938.	3.0	35
100	Monitoring cell adhesion processes on bioactive polymers with the quartz crystal resonator technique. Biomaterials, 2005, 26, 4197-4205.	11.4	35
101	Three-dimensional quantitative ultrasound for detecting lymph node metastases. Journal of Surgical Research, 2013, 183, 258-269.	1.6	34
102	An overview of bone sonometry. International Congress Series, 2004, 1274, 23-32.	0.2	33
103	Dynamic coherent backscattering in a heterogeneous absorbing medium: Application to human trabecular bone characterization. Applied Physics Letters, 2005, 87, 114101.	3.3	33
104	Spatial distribution of anisotropic acoustic impedance assessed by time-resolved 50-MHz scanning acoustic microscopy and its relation to porosity in human cortical bone. Bone, 2008, 43, 187-194.	2.9	32
105	Computational Evaluation of the Compositional Factors in Fracture Healing Affecting Ultrasound Axial Transmission Measurements. Ultrasound in Medicine and Biology, 2010, 36, 1314-1326.	1.5	32
106	Experimental and simulation results on the effect of cortical bone mineralization in ultrasound axial transmission measurements: A model for fracture healing ultrasound monitoring. Bone, 2011, 48, 1202-1209.	2.9	32
107	Measurement of guided mode wavenumbers in soft tissueâ€“bone mimicking phantoms using ultrasonic axial transmission. Physics in Medicine and Biology, 2012, 57, 3025-3037.	3.0	32
108	Ultrasound Attenuation Imaging in the Os Calcis: An Improved Method. Ultrasonic Imaging, 1994, 16, 65-76.	2.6	31



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109	Non Destructive Characterization of Cortical Bone Micro-Damage by Nonlinear Resonant Ultrasound Spectroscopy. PLoS ONE, 2014, 9, e83599.	2.5	31
110	Dispersive Radon transform. Journal of the Acoustical Society of America, 2018, 143, 2729-2743.	1.1	31
111	Anisotropic elastic properties of human femoral cortical bone and relationships with composition and microstructure in elderly. Acta Biomaterialia, 2019, 90, 254-266.	8.3	31
112	In Vivo Measurements of Ultrasound Transmission Through the Human Proximal Femur. Ultrasound in Medicine and Biology, 2008, 34, 1186-1190.	1.5	29
113	Potential of First Arriving Signal to Assess Cortical Bone Geometry at the Hip with QUS: A Model Based Study. Ultrasound in Medicine and Biology, 2010, 36, 656-666.	1.5	29
114	Measuring the wavenumber of guided modes in waveguides with linearly varying thickness. Journal of the Acoustical Society of America, 2014, 135, 2614-2624.	1.1	29
115	Multichannel processing for dispersion curves extraction of ultrasonic axial-transmission signals: Comparisons and case studies. Journal of the Acoustical Society of America, 2016, 140, 1758-1770.	1.1	29
116	Effects of antiinflammatory drugs on arthritic cartilage: A high-frequency quantitative ultrasound study in rats. Arthritis and Rheumatism, 2003, 48, 1594-1601.	6.7	28
117	Progress towards in vitro quantitative imaging of human femur using compound quantitative ultrasonic tomography. Physics in Medicine and Biology, 2005, 50, 2633-2649.	3.0	28
118	Application of nonlinear dynamics to monitoring progressive fatigue damage in human cortical bone. Applied Physics Letters, 2007, 91, .	3.3	28
119	A capacitive micromachined ultrasonic transducer probe for assessment of cortical bone. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 710-723.	3.0	28
120	In Vitro Ultrasound Measurement at the Human Femur. Calcified Tissue International, 2004, 75, 421-430.	3.1	27
121	Numerical simulation of wave propagation in cancellous bone. Ultrasonics, 2006, 44, e239-e243.	3.9	27
122	Singular value decomposition-based wave extraction in axial transmission: application to cortical bone ultrasonic characterization [correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1328-1332.	3.0	27
123	Analysis of the most energetic late arrival in axially transmitted signals in cortical bone. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2463-2470.	3.0	26
124	In vivo performance of a matrix-based quantitative ultrasound imaging device dedicated to calcaneus investigation. Ultrasound in Medicine and Biology, 2002, 28, 1285-1293.	1.5	25
125	Ultrasonic Backscatter and Attenuation (11â€“27 MHz) Variation with Collagen Fiber Distribution in Ex Vivo Human Dermis. Ultrasonic Imaging, 2006, 28, 23-40.	2.6	25
126	Axial speed of sound is related to tendon's nonlinear elasticity. Journal of Biomechanics, 2012, 45, 263-268.	2.1	25



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127	A free plate model can predict guided modes propagating in tubular bone-mimicking phantoms. Journal of the Acoustical Society of America, 2015, 137, EL98-EL104.	1.1	25
128	Numerical simulation of the dependence of quantitative ultrasonic parameters on trabecular bone microarchitecture and elastic constants. Ultrasonics, 2006, 44, e289-e294.	3.9	24
129	Simulation of Ultrasound Propagation Through Three-Dimensional Trabecular Bone Structures: Comparison with Experimental Data. Japanese Journal of Applied Physics, 2006, 45, 6496-6500.	1.5	24
130	Sensitivity of QUS parameters to controlled variations of bone strength assessed with a cellular model. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1488-1496.	3.0	24
131	Influence of porosity, pore size, and cortical thickness on the propagation of ultrasonic waves guided through the femoral neck cortex: a simulation study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 302-313.	3.0	24
132	Ex vivo cortical porosity and thickness predictions at the tibia using full-spectrum ultrasonic guided-wave analysis. Archives of Osteoporosis, 2019, 14, 21.	2.4	24
133	Parametric analysis of carotid plaque using a clinical ultrasound imaging system. Ultrasound in Medicine and Biology, 2003, 29, 1521-1530.	1.5	23
134	Relative contributions of porosity and mineralized matrix properties to the bulk axial ultrasonic wave velocity in human cortical bone. Ultrasonics, 2012, 52, 467-471.	3.9	23
135	A critical assessment of the in-vitro measurement of cortical bone stiffness with ultrasound. Ultrasonics, 2017, 80, 119-126.	3.9	23
136	Recent developments in trabecular bone characterization using ultrasound. Current Osteoporosis Reports, 2005, 3, 64-69.	3.6	22
137	Derivation of the mesoscopic elasticity tensor of cortical bone from quantitative impedance images at the micron scale. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 147-157.	1.6	22
138	InÂVivo Gene Transfer into the Ocular Ciliary Muscle Mediated byÂUltrasound and Microbubbles. Ultrasound in Medicine and Biology, 2011, 37, 1814-1827.	1.5	22
139	Computed tomography porosity and spherical indentation for determining cortical bone millimetre-scale mechanical properties. Scientific Reports, 2019, 9, 7416.	3.3	22
140	Milestones on the road to higher resolution, quantitative, and functional ultrasonic imaging. Proceedings of the IEEE, 2003, 91, 1543-1561.	21.3	21
141	Experimental evaluation of bone quality measuring speed of sound in cadaver mandibles. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2006, 102, 782-791.	1.4	21
142	High-frequency ultrasound detection and follow-up of Wilmsâ€™ tumor in the mouse. Ultrasound in Medicine and Biology, 2006, 32, 183-190.	1.5	21
143	To what extent can cortical bone millimeter-scale elasticity be predicted by a two-phase composite model with variable porosity?. Acta Biomaterialia, 2015, 12, 207-215.	8.3	20
144	Homogenization of cortical bone reveals that the organization and shape of pores marginally affect elasticity. Journal of the Royal Society Interface, 2019, 16, 20180911.	3.4	20

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145	Specular reflector noise: Effect and correction for in vivo attenuation estimation. Ultrasonic Imaging, 1985, 7, 277-292.	2.6	19
146	Model-based estimation of quantitative ultrasound variables at the proximal femur. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1304-1315.	3.0	19
147	Nonlinear acoustic resonances to probe a threaded interface. Journal of Applied Physics, 2010, 107, .	2.5	19
148	Accurate measurement of guided modes in a plate using a bidirectional approach. Journal of the Acoustical Society of America, 2014, 135, EL15-EL21.	1.1	19
149	Modeling of Femoral Neck Cortical Bone for the Numerical Simulation of Ultrasound Propagation. Ultrasound in Medicine and Biology, 2014, 40, 1015-1026.	1.5	19
150	Quantitative Ultrasound Instrumentation for Bone In Vivo Characterization. , 2011, , 47-71.		19
151	Optimal precision in ultrasound attenuation estimation and application to the detection of Duchenne Muscular Dystrophy carriers. Ultrasonic Imaging, 1987, 9, 1-17.	2.6	17
152	Quantitative Ultrasound Imaging of the Calcaneus: Precision and Variations During a 120-Day Bed Rest. Calcified Tissue International, 2000, 66, 16-21.	3.1	17
153	Wavelet-Based Signal Processing of In Vitro Ultrasonic Measurements at the Proximal Femur. Ultrasound in Medicine and Biology, 2007, 33, 970-980.	1.5	17
154	Comparative ultrasound evaluation of human trabecular bone graft properties after treatment with different sterilization procedures. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 430-437.	3.4	17
155	Real-time Chirp-Coded Imaging With a Programmable Ultrasound Biomicroscope. IEEE Transactions on Biomedical Engineering, 2010, 57, 654-664.	4.2	17
156	An alternative quantitative acoustical and electrical method for detection of cell adhesion process in real-time. Biotechnology and Bioengineering, 2011, 108, 947-962.	3.3	17
157	Quantification of stiffness measurement errors in resonant ultrasound spectroscopy of human cortical bone. Journal of the Acoustical Society of America, 2017, 142, 2755-2765.	1.1	17
158	Bone micro-damage assessment using non-linear resonant ultrasound spectroscopy (NRUS) techniques: A feasibility study. Ultrasonics, 2006, 44, e245-e249.	3.9	16
159	Effects of gamma irradiation on mechanical properties of defatted trabecular bone allografts assessed by speed-of-sound measurement. Cell and Tissue Banking, 2007, 8, 205-210.	1.1	16
160	A Linear Laser Scanner to Measure Cross-Sectional Shape and Area of Biological Specimens During Mechanical Testing. Journal of Biomechanical Engineering, 2010, 132, 105001.	1.3	16
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