

Sergio JosÃ© Sanabria MartÃ­n

List of Publications by Year in descending order

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51
papers

784
citations

471371

17
h-index

552653

26
g-index

51
all docs

51
docs citations

51
times ranked

627
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining moisture-dependent elastic characteristics of beech wood by means of ultrasonic waves. <i>Wood Science and Technology</i> , 2013, 47, 329-341.	1.4	72
2	Spatial domain reconstruction for imaging speed-of-sound with pulse-echo ultrasound: simulation and <i>in vivo</i> study. <i>Physics in Medicine and Biology</i> , 2018, 63, 215015.	1.6	66
3	Air-coupled ultrasound as an accurate and reproducible method for bonding assessment of glued timber. <i>Wood Science and Technology</i> , 2011, 45, 645-659.	1.4	39
4	Air-coupled ultrasound inspection of glued laminated timber. <i>Holzforschung</i> , 2011, 65, .	0.9	36
5	Damage evolution in wood: synchrotron radiation micro-computed tomography (SR μ CT) as a complementary tool for interpreting acoustic emission (AE) behavior. <i>Holzforschung</i> , 2015, 69, 1015-1025.	0.9	35
6	Moisture-dependent elastic characteristics of walnut and cherry wood by means of mechanical and ultrasonic test incorporating three different ultrasound data evaluation techniques. <i>Wood Science and Technology</i> , 2017, 51, 47-67.	1.4	34
7	Speed of sound ultrasound: a pilot study on a novel technique to identify sarcopenia in seniors. <i>European Radiology</i> , 2019, 29, 3-12.	2.3	33
8	Influencing Factors of 2D Shear Wave Elastography of the Muscle – An Ex Vivo Animal Study. <i>Ultrasound International Open</i> , 2018, 04, E54-E60.	0.3	29
9	Breast Cancer Assessment With Pulse-Echo Speed of Sound Ultrasound From Intrinsic Tissue Reflections. <i>Investigative Radiology</i> , 2019, 54, 419-427.	3.5	28
10	Modeling and prediction of density distribution and microstructure in particleboards from acoustic properties by correlation of non-contact high-resolution pulsed air-coupled ultrasound and X-ray images. <i>Ultrasonics</i> , 2013, 53, 157-170.	2.1	26
11	Economical Sponge Phantom for Teaching, Understanding, and Researching –and –Line Reverberation Artifacts in Lung Ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2017, 36, 2133-2142.	0.8	26
12	Novel slanted incidence air-coupled ultrasound method for delamination assessment in individual bonding planes of structural multi-layered glued timber laminates. <i>Ultrasonics</i> , 2013, 53, 1309-1324.	2.1	24
13	Breast-density assessment with hand-held ultrasound: A novel biomarker to assess breast cancer risk and to tailor screening?. <i>European Radiology</i> , 2018, 28, 3165-3175.	2.3	24
14	Which Confounders Have the Largest Impact in Shear Wave Elastography of Muscle and How Can They be Minimized? An Elasticity Phantom, Ex Vivo Porcine Muscle and Volunteer Study Using a Commercially Available System. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 2591-2611.	0.7	22
15	Analytical modeling, finite-difference simulation and experimental validation of air-coupled ultrasound beam refraction and damping through timber laminates, with application to non-destructive testing. <i>Ultrasonics</i> , 2015, 63, 65-85.	2.1	19
16	Speed-of-Sound Imaging Based on Reflector Delineation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1949-1962.	2.5	18
17	Image Reconstruction via Variational Network for Real-Time Hand-Held Sound-Speed Imaging. <i>Lecture Notes in Computer Science</i> , 2018, , 120-128.	1.0	18
18	Modeling of delamination detection utilizing air-coupled ultrasound in wood-based composites. <i>NDT and E International</i> , 2018, 99, 1-12.	1.7	16

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19	Observation of interference effects in air-coupled ultrasonic inspection of wood-based panels. <i>Wood Science and Technology</i> , 2012, 46, 979-990.	1.4	15
20	Combination of neutron imaging (NI) and digital image correlation (DIC) to determine intra-ring moisture variation in Norway spruce. <i>Holzforschung</i> , 2014, 68, 113-122.	0.9	15
21	Acoustic Field Characterization of Medical Array Transducers Based on Unfocused Transmits and Single-Plane Hydrophone Measurements. <i>Sensors</i> , 2019, 19, 863.	2.1	15
22	Air-Coupled Ultrasound Time Reversal (ACU-TR) For Subwavelength Nondestructive Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 651-663.	1.7	15
23	Hand-Held Sound-Speed Imaging Based on Ultrasound Reflector Delineation. <i>Lecture Notes in Computer Science</i> , 2016, , 568-576.	1.0	15
24	Water vapour diffusion through historically relevant gluten-based wood adhesives with sorption measurements and neutron radiography. <i>Wood Science and Technology</i> , 2014, 48, 591-609.	1.4	14
25	Assessment of glued timber integrity by limited-angle microfocus X-ray computed tomography. <i>European Journal of Wood and Wood Products</i> , 2011, 69, 605-617.	1.3	12
26	Spectral Quantification of Nonlinear Elasticity Using Acoustoelasticity and Shear-Wave Dispersion. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1845-1855.	1.7	12
27	Speed of sound ultrasound: comparison with proton density fat fraction assessed with Dixon MRI for fat content quantification of the lower extremity. <i>European Radiology</i> , 2020, 30, 5272-5280.	2.3	12
28	Calculation of Volumetric Sound Field of Pulsed Air-Coupled Ultrasound Transducers Based on Single-Plane Measurements. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 72-84.	1.7	11
29	Adaptive Neutron Radiography Correlation for Simultaneous Imaging of Moisture Transport and Deformation in Hygroscopic Materials. <i>Experimental Mechanics</i> , 2015, 55, 403-415.	1.1	10
30	In-situ quantification of microscopic contributions of individual cells to macroscopic wood deformation with synchrotron computed tomography. <i>Scientific Reports</i> , 2020, 10, 21615.	1.6	10
31	Delamination detection in a 90-year-old glulam block with scanning dry point-contact ultrasound. <i>Holzforschung</i> , 2013, 67, 949-957.	0.9	7
32	Breast Density Assessment in Young Women with Ultrasound based on Speed of Sound: Influence of the Menstrual Cycle. <i>Medicine (United States)</i> , 2019, 98, e16123.	0.4	7
33	Quantification of immobilization-induced changes in human calf muscle using speed-of-sound ultrasound. <i>Medicine (United States)</i> , 2021, 100, e23576.	0.4	6
34	Air-coupled ultrasound wave propagation in glued laminated timber structures applied to bonding quality assessment. , 2010, , .		5
35	Thermal expansion imaging for monitoring lesion depth using M-mode ultrasound during cardiac RF ablation: in vitro study. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 681-693.	1.7	5
36	Mobile Ultrasound Imaging on Heterogeneous Multi-Core Platforms. , 2016, , .		5

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37	Robust Reconstruction of Elasticity Using Ultrasound Imaging and Multi-Frequency Excitations. IEEE Transactions on Medical Imaging, 2018, 37, 2502-2513.	5.4	5
38	Lung ultrasound for point-of-care COVID-19 pneumonia stratification: computer-aided diagnostics in a smartphone. First experiences classifying semiology from public datasets. , 2020, , .		4
39	Comparison of ultrasound speed-of-sound of the lower extremity and lumbar muscle assessed with computed tomography for muscle loss assessment. Medicine (United States), 2021, 100, e25947.	0.4	4
40	Speed of sound and shear wave speed for calf soft tissue composition and nonlinearity assessment. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4149-4161.	1.1	4
41	Influence of incubation time on the vibration and mechanic properties of mycowood. Holzforschung, 2016, 70, 557-565.	0.9	3
42	Ultrasound Needle Visibility in Contrast Mode Imaging: An In Vitro and Ex Vivo Study. Ultrasound International Open, 2017, 03, E82-E88.	0.3	3
43	Analysis of excitation frequency in elasticity reconstruction using the FEM inverse-problem. , 2016, , .		2
44	Glue Line Nondestructive Assessment in Timber Laminates with an Air-Coupled Ultrasonic Technique. , 2010, , 379-387.		1
45	Ultrasound Imaging of Injections in Masseter Muscle without Contrast Agent Using Strain Elastography and a Novel B-Mode Spatiotemporal Filter. Ultrasound in Medicine and Biology, 2020, 46, 2717-2735.	0.7	1
46	Bonding Defect Imaging in Glulam with Novel Air-Coupled Ultrasound Testing. , 2014, , 221-246.		1
47	Reflector-based 3D tomographic ultrasound reconstruction: Simulation study. , 2017, , .		0
48	Quantification of nonlinear elastic constants using polynomials in quasi-incompressible soft solids. , 2017, , .		0
49	Reflector-based 3D tomographic ultrasound reconstruction: Simulation study. , 2017, , .		0
50	Menstrual cycle-related changes in breast density using hand-held Speed-of-Sound Ultrasound. , 2018, 39, .		0
51	Anisotropic regularization of ultrasound pulse-echo tomography for reconstruction of speed-of-sound and tissue heterogeneity through abdominal layers. , 2020, , .		0