

# Sergio JosÃ© Sanabria MartÃ­n

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

784  
citations

471509  
17  
h-index

552781  
26  
g-index

51  
all docs

51  
docs citations

51  
times ranked

627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of immobilization-induced changes in human calf muscle using speed-of-sound ultrasound. <i>Medicine (United States)</i> , 2021, 100, e23576.	1.0	6
2	Comparison of ultrasound speed-of-sound of the lower extremity and lumbar muscle assessed with computed tomography for muscle loss assessment. <i>Medicine (United States)</i> , 2021, 100, e25947.	1.0	4
3	Speed of sound and shear wave speed for calf soft tissue composition and nonlinearity assessment. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 4149-4161.	2.0	4
4	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.	3.0	15
5	Ultrasound Imaging of Injections in Masseter Muscle without Contrast Agent Using Strain Elastography and a Novel B-Mode Spatiotemporal Filter. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 2717-2735.	1.5	1
6	In-situ quantification of microscopic contributions of individual cells to macroscopic wood deformation with synchrotron computed tomography. <i>Scientific Reports</i> , 2020, 10, 21615.	3.3	10
7	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
8	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.	4.5	12
9	Anisotropic regularization of ultrasound pulse-echo tomography for reconstruction of speed-of-sound and tissue heterogeneity through abdominal layers. , 2020, , .		0
10	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.	1.5	22
11	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.	3.0	12
12	Acoustic Field Characterization of Medical Array Transducers Based on Unfocused Transmits and Single-Plane Hydrophone Measurements. <i>Sensors</i> , 2019, 19, 863.	3.8	15
13	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.	1.0	7
14	Breast Cancer Assessment With Pulse-Echo Speed of Sound Ultrasound From Intrinsic Tissue Reflections. <i>Investigative Radiology</i> , 2019, 54, 419-427.	6.2	28
15	Speed of sound ultrasound: a pilot study on a novel technique to identify sarcopenia in seniors. <i>European Radiology</i> , 2019, 29, 3-12.	4.5	33
16	Speed-of-Sound Imaging Based on Reflector Delineation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1949-1962.	4.2	18
17	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.	3.0	11
18	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.	4.5	24

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19	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.	3.0	66
20	Modeling of delamination detection utilizing air-coupled ultrasound in wood-based composites. <i>NDT and E International</i> , 2018, 99, 1-12.	3.7	16
21	Robust Reconstruction of Elasticity Using Ultrasound Imaging and Multi-Frequency Excitations. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2502-2513.	8.9	5
22	Influencing Factors of 2D Shear Wave Elastography of the Muscle – An Ex Vivo Animal Study. <i>Ultrasound International Open</i> , 2018, 04, E54-E60.	0.6	29
23	Image Reconstruction via Variational Network for Real-Time Hand-Held Sound-Speed Imaging. <i>Lecture Notes in Computer Science</i> , 2018, , 120-128.	1.3	18
24	Menstrual cycle-related changes in breast density using hand-held Speed-of-Sound Ultrasound. , 2018, 39, .		0
25	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.	1.7	26
26	Ultrasound Needle Visibility in Contrast Mode Imaging: An In Vitro and Ex Vivo Study. <i>Ultrasound International Open</i> , 2017, 03, E82-E88.	0.6	3
27	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.	3.2	34
28	Reflector-based 3D tomographic ultrasound reconstruction: Simulation study. , 2017, , .		0
29	Quantification of nonlinear elastic constants using polynomials in quasi-incompressible soft solids. , 2017, , .		0
30	Reflector-based 3D tomographic ultrasound reconstruction: Simulation study. , 2017, , .		0
31	Analysis of excitation frequency in elasticity reconstruction using the FEM inverse-problem. , 2016, , .		2
32	Mobile Ultrasound Imaging on Heterogeneous Multi-Core Platforms. , 2016, , .		5
33	Influence of incubation time on the vibration and mechanic properties of mycowood. <i>Holzforschung</i> , 2016, 70, 557-565.	1.9	3
34	Hand-Held Sound-Speed Imaging Based on Ultrasound Reflector Delineation. <i>Lecture Notes in Computer Science</i> , 2016, , 568-576.	1.3	15
35	Damage evolution in wood: synchrotron radiation micro-computed tomography (SR $\mu$ CT) as a complementary tool for interpreting acoustic emission (AE) behavior. <i>Holzforschung</i> , 2015, 69, 1015-1025.	1.9	35
36	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.	2.8	5

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37	Adaptive Neutron Radiography Correlation for Simultaneous Imaging of Moisture Transport and Deformation in Hygroscopic Materials. <i>Experimental Mechanics</i> , 2015, 55, 403-415.	2.0	10
38	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.	3.9	19
39	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.	1.9	15
40	Water vapour diffusion through historically relevant glutin-based wood adhesives with sorption measurements and neutron radiography. <i>Wood Science and Technology</i> , 2014, 48, 591-609.	3.2	14
41	Bonding Defect Imaging in Glulam with Novel Air-Coupled Ultrasound Testing. , 2014, , 221-246.		1
42	Determining moisture-dependent elastic characteristics of beech wood by means of ultrasonic waves. <i>Wood Science and Technology</i> , 2013, 47, 329-341.	3.2	72
43	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.	3.9	26
44	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.	3.9	24
45	Delamination detection in a 90-year-old glulam block with scanning dry point-contact ultrasound. <i>Holzforschung</i> , 2013, 67, 949-957.	1.9	7
46	Observation of interference effects in air-coupled ultrasonic inspection of wood-based panels. <i>Wood Science and Technology</i> , 2012, 46, 979-990.	3.2	15
47	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.	2.9	12
48	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.	3.2	39
49	Air-coupled ultrasound inspection of glued laminated timber. <i>Holzforschung</i> , 2011, 65, .	1.9	36
50	Glue Line Nondestructive Assessment in Timber Laminates with an Air-Coupled Ultrasonic Technique. , 2010, , 379-387.		1
51	Air-coupled ultrasound wave propagation in glued laminated timber structures applied to bonding quality assessment. , 2010, , .		5