Boran Zhou

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2286236/publications.pdf

Version: 2024-02-01

52	783	430874	552781
papers	citations	18 h-index	26 g-index

59	59	59	596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lung Ultrasound Surface Wave Elastography: A Pilot Clinical Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1298-1304.	3.0	58
2	An Ultrasound Surface Wave Technique for Assessing Skin and Lung Diseases. Ultrasound in Medicine and Biology, 2018, 44, 321-331.	1.5	46
3	Noninvasive measurement of wave speed of porcine cornea in ex vivo porcine eyes for various intraocular pressures. Ultrasonics, 2017, 81, 86-92.	3.9	40
4	A mechanical argument for the differential performance of coronary artery grafts. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 54, 93-105.	3.1	37
5	On the Uniaxial Ring Test of Tissue Engineered Constructs. Experimental Mechanics, 2015, 55, 41-51.	2.0	33
6	Ultrasound elastography for carpal tunnel pressure measurement: A cadaveric validation study. Journal of Orthopaedic Research, 2018, 36, 477-483.	2.3	32
7	A Novel Noninvasive Ultrasound Vibro-elastography Technique for Assessing Patients With Erectile Dysfunction and Peyronie Disease. Urology, 2018, 116, 99-105.	1.0	31
8	Lung mass density analysis using deep neural network and lung ultrasound surface wave elastography. Ultrasonics, 2018, 89, 173-177.	3.9	31
9	The biaxial active mechanical properties of the porcine primary renal artery. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 28-37.	3.1	30
10	Lung US Surface Wave Elastography in Interstitial Lung Disease Staging. Radiology, 2019, 291, 479-484.	7.3	29
11	Review of Machine Learning in Lung Ultrasound in COVID-19 Pandemic. Journal of Imaging, 2022, 8, 65.	3.0	29
12	The quantitative evaluation of the relationship between the forces applied to the palm and carpal tunnel pressure. Journal of Biomechanics, 2018, 66, 170-174.	2.1	28
13	Assessment of Interstitial Lung Disease Using Lung Ultrasound Surface Wave Elastography. Journal of Thoracic Imaging, 2019, 34, 313-319.	1.5	28
14	Comparison of five viscoelastic models for estimating viscoelastic parameters using ultrasound shear wave elastography. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 85, 109-116.	3.1	23
15	Lung Ultrasound Surface Wave Elastography for Assessing Interstitial Lung Disease. IEEE Transactions on Biomedical Engineering, 2019, 66, 1346-1352.	4.2	23
16	Ultrasound Elastography for Lung Disease Assessment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2249-2257.	3.0	23
17	Comparison of two ways of altering carpal tunnel pressure with ultrasound surface wave elastography. Journal of Biomechanics, 2018, 74, 197-201.	2.1	21
18	Cellularized Microcarriers as Adhesive Building Blocks for Fabrication of Tubular Tissue Constructs. Annals of Biomedical Engineering, 2014, 42, 1470-1481.	2.5	20

#	Article	IF	Citations
19	Experimental and numerical studies of two arterial wall delamination modes. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 321-330.	3.1	16
20	An Ultrasound Vibro-Elastography Technique for Assessing Papilledema. Ultrasound in Medicine and Biology, 2019, 45, 2034-2039.	1.5	16
21	Artificial intelligence in tumor subregion analysis based on medical imaging: A review. Journal of Applied Clinical Medical Physics, 2021, 22, 10-26.	1.9	15
22	A STRUCTURE-MOTIVATED MODEL OF THE PASSIVE MECHANICAL RESPONSE OF THE PRIMARY PORCINE RENAL ARTERY. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450033.	0.7	13
23	Contractile Smooth Muscle and Active Stress Generation in Porcine Common Carotids. Journal of Biomechanical Engineering, 2018, 140, .	1.3	13
24	The effect of pleural fluid layers on lung surface wave speed measurement: Experimental and numerical studies on a sponge lung phantom. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 89, 13-18.	3.1	12
25	The perivascular environment along the vertebral artery governs segment-specific structural and mechanical properties. Acta Biomaterialia, 2016, 45, 286-295.	8.3	11
26	Predicting lung mass density of patients with interstitial lung disease and healthy subjects using deep neural network and lung ultrasound surface wave elastography. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103682.	3.1	11
27	Lung mass density prediction using machine learning based on ultrasound surface wave elastography and pulmonary function testing. Journal of the Acoustical Society of America, 2021, 149, 1318-1323.	1.1	10
28	Transvaginal Ultrasound Vibro-elastography for Measuring Uterine Viscoelasticity: A Phantom Study. Ultrasound in Medicine and Biology, 2019, 45, 617-622.	1.5	9
29	Ultrasound Surface Wave Elastography for Assessing Scleroderma. Ultrasound in Medicine and Biology, 2020, 46, 1263-1269.	1.5	9
30	Using Digital Image Correlation to Characterize Local Strains on Vascular Tissue Specimens. Journal of Visualized Experiments, 2016, , e53625.	0.3	7
31	A quantitative method for measuring the changes of lung surface wave speed for assessing disease progression of interstitial lung disease. Ultrasound in Medicine and Biology, 2019, 45, 741-748.	1.5	6
32	Two dimensional penile ultrasound vibro-elastography for measuring penile tissue viscoelasticity: A pilot patient study and its correlation with penile ultrasonography. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103570.	3.1	6
33	An ex vivo technique for quantifying mouse lung injury using ultrasound surface wave elastography. Journal of Biomechanics, 2020, 98, 109468.	2.1	5
34	Lung Ultrasound Surface Wave Elastography for Assessing Patients With Pulmonary Edema. IEEE Transactions on Biomedical Engineering, 2021, 68, 3417-3423.	4.2	5
35	Assessment of interstitial lung disease using lung ultrasound surface wave elastography. , 2017, , .		4
36	Comparison of Corneal Wave Speed and Ocular Rigidity in Normal and Glaucomatous Eyes. Journal of Glaucoma, 2021, 30, 932-940.	1.6	4

#	Article	IF	Citations
37	Active Stress in the Porcine Renal Artery. , 2013, , .		4
38	Longitudinal Changes in U.S. Parameters of Neurovascular Bundles Suggest Mechanism for Radiation-Induced Erectile Dysfunction. Advances in Radiation Oncology, 2022, 7, 100946.	1.2	4
39	A feasibility study for noninvasive measurement of shear wave speed in live zebrafish. Ultrasonics, 2020, 107, 106170.	3.9	3
40	Notice of Removal: Assessment of interstitial lung disease using lung ultrasound surface wave elastography. , 2017, , .		2
41	Quantitative assessment of scleroderma using ultrasound surface wave elastography. , 2017, , .		2
42	Determination of Viscoelastic Properties of human Carotid Atherosclerotic Plaque by Inverse Boundary Value Analysis. IOP Conference Series: Materials Science and Engineering, 2018, 381, 012171.	0.6	2
43	Ultrasound Vibroelastography for Evaluation of Secondary Extremity Lymphedema. Annals of Plastic Surgery, 2020, 85, S92-S96.	0.9	2
44	Grading Bleomycinâ€Induced Pulmonary Fibrosis in ex vivo Mouse Lungs Using Ultrasound Image Analysis. Journal of Ultrasound in Medicine, 2021, 40, 763-770.	1.7	2
45	A nonâ€“invasive technique for evaluating carpal tunnel pressure with ultrasound vibroâ€“elastography for patients with carpal tunnel syndrome: A pilot clinical study. Journal of Biomechanics, 2021, 116, 110228.	2.1	2
46	Artificial Intelligence in Quantitative Ultrasound Imaging. Journal of Ultrasound in Medicine, 2021, , .	1.7	2
47	Quantitative assessment of scleroderma using ultrasound surface wave elastography. , 2017, , .		1
48	A Pilot Study of Wet Lung Using Lung Ultrasound Surface Wave Elastography in an Ex Vivo Swine Lung Model. Applied Sciences (Switzerland), 2019, 9, 3923.	2.5	1
49	Ultrasound vibro-elastography for assessing mechanical properties of porcine reproductive tissues in an ex vivo model. Clinical Biomechanics, 2020, 78, 105093.	1.2	1
50	Mechanical Response of Tissue Constructs Fabricated From Self-Adhering Cellularized Microcarriers. , 2013, , .		0
51	An Ultrafast Ultrasound Microvessel Imaging Technique for Assessing Patients with Unilateral Papilledema. , 2018, , .		0
52	ULTRASOUND GUIDANCE TO MEASURE PROGRESSIVE FIBROSIS IN THE BLEOMYCIN FIBROSIS MOUSE MODEL. Chest, 2019, 156, A1737.	0.8	0