Boran Zhou

List of Publications by Year in descending order

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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	Review of Machine Learning in Lung Ultrasound in COVID-19 Pandemic. Journal of Imaging, 2022, 8, 65.	3.0	29
2	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
3	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
4	Lung Ultrasound Surface Wave Elastography for Assessing Patients With Pulmonary Edema. IEEE Transactions on Biomedical Engineering, 2021, 68, 3417-3423.	4.2	5
5	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
6	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
7	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
8	Comparison of Corneal Wave Speed and Ocular Rigidity in Normal and Glaucomatous Eyes. Journal of Glaucoma, 2021, 30, 932-940.	1.6	4
9	Artificial Intelligence in Quantitative Ultrasound Imaging. Journal of Ultrasound in Medicine, 2021, , .	1.7	2
10	An ex vivo technique for quantifying mouse lung injury using ultrasound surface wave elastography. Journal of Biomechanics, 2020, 98, 109468.	2.1	5
11	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
12	Ultrasound Elastography for Lung Disease Assessment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2249-2257.	3.0	23
13	Ultrasound vibro-elastography for assessing mechanical properties of porcine reproductive tissues in an ex vivo model. Clinical Biomechanics, 2020, 78, 105093.	1.2	1
14	A feasibility study for noninvasive measurement of shear wave speed in live zebrafish. Ultrasonics, 2020, 107, 106170.	3.9	3
15	Ultrasound Vibroelastography for Evaluation of Secondary Extremity Lymphedema. Annals of Plastic Surgery, 2020, 85, S92-S96.	0.9	2
16	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
17	Ultrasound Surface Wave Elastography for Assessing Scleroderma. Ultrasound in Medicine and Biology, 2020, 46, 1263-1269.	1.5	9
18	Assessment of Interstitial Lung Disease Using Lung Ultrasound Surface Wave Elastography. Journal of Thoracic Imaging, 2019, 34, 313-319.	1.5	28

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19	An Ultrasound Vibro-Elastography Technique for Assessing Papilledema. Ultrasound in Medicine and Biology, 2019, 45, 2034-2039.	1.5	16
20	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
21	Lung US Surface Wave Elastography in Interstitial Lung Disease Staging. Radiology, 2019, 291, 479-484.	7.3	29
22	ULTRASOUND GUIDANCE TO MEASURE PROGRESSIVE FIBROSIS IN THE BLEOMYCIN FIBROSIS MOUSE MODEL. Chest, 2019, 156, A1737.	0.8	0
23	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
24	Transvaginal Ultrasound Vibro-elastography for Measuring Uterine Viscoelasticity: A Phantom Study. Ultrasound in Medicine and Biology, 2019, 45, 617-622.	1.5	9
25	Lung Ultrasound Surface Wave Elastography for Assessing Interstitial Lung Disease. IEEE Transactions on Biomedical Engineering, 2019, 66, 1346-1352.	4.2	23
26	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
27	Comparison of two ways of altering carpal tunnel pressure with ultrasound surface wave elastography. Journal of Biomechanics, 2018, 74, 197-201.	2.1	21
28	A Novel Noninvasive Ultrasound Vibro-elastography Technique for Assessing Patients With Erectile Dysfunction and Peyronie Disease. Urology, 2018, 116, 99-105.	1.0	31
29	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
30	Contractile Smooth Muscle and Active Stress Generation in Porcine Common Carotids. Journal of Biomechanical Engineering, 2018, 140, .	1.3	13
31	An Ultrasound Surface Wave Technique for Assessing Skin and Lung Diseases. Ultrasound in Medicine and Biology, 2018, 44, 321-331.	1.5	46
32	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
33	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
34	An Ultrafast Ultrasound Microvessel Imaging Technique for Assessing Patients with Unilateral Papilledema. , 2018, , .		0
35	Lung mass density analysis using deep neural network and lung ultrasound surface wave elastography. Ultrasonics, 2018, 89, 173-177.	3.9	31
36	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

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37	Ultrasound elastography for carpal tunnel pressure measurement: A cadaveric validation study. Journal of Orthopaedic Research, 2018, 36, 477-483.	2.3	32
38	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
39	Lung Ultrasound Surface Wave Elastography: A Pilot Clinical Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1298-1304.	3.0	58
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, , .		1
42	Assessment of interstitial lung disease using lung ultrasound surface wave elastography. , 2017, , .		4
43	Quantitative assessment of scleroderma using ultrasound surface wave elastography. , 2017, , .		2
44	The perivascular environment along the vertebral artery governs segment-specific structural and mechanical properties. Acta Biomaterialia, 2016, 45, 286-295.	8.3	11
45	Using Digital Image Correlation to Characterize Local Strains on Vascular Tissue Specimens. Journal of Visualized Experiments, 2016, , e53625.	0.3	7
46	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
47	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
48	On the Uniaxial Ring Test of Tissue Engineered Constructs. Experimental Mechanics, 2015, 55, 41-51.	2.0	33
49	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
50	Cellularized Microcarriers as Adhesive Building Blocks for Fabrication of Tubular Tissue Constructs. Annals of Biomedical Engineering, 2014, 42, 1470-1481.	2.5	20
51	Mechanical Response of Tissue Constructs Fabricated From Self-Adhering Cellularized Microcarriers. , 2013, , .		0
52	Active Stress in the Porcine Renal Artery. , 2013, , .		4