

# Wei Ning Lee

## List of Publications by Year in descending order

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64  
papers

1,381  
citations

430442

18  
h-index

360668

35  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noninvasive Assessment of <i>In Vivo</i> Passive Skeletal Muscle Mechanics as a Composite Material Using Biomedical Ultrasound. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1162-1172.	2.5	1
2	Design of a Barometer-Based Pulse-Taking Device With <i>In Vivo</i> Validation Against High-Frequency Ultrasound Pulse Wave Imaging. <i>IEEE Sensors Journal</i> , 2022, 22, 7219-7230.	2.4	2
3	Non-Invasive Estimation of Localized Dynamic Luminal Pressure Change by Ultrasound Elastography in Arteries With Normal and Abnormal Geometries. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1627-1637.	2.5	2
4	Spontaneous extension wave for in vivo assessment of arterial wall anisotropy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H2429-H2437.	1.5	0
5	Microcirculatory Responses to Muscle and Tendon Exercises in Individuals With and Without Type 2 Diabetes Mellitus and the Association Between Microcirculatory and Exercise Performance. <i>Metabolic Syndrome and Related Disorders</i> , 2021, 19, 325-331.	0.5	1
6	Role of Ultrasound in Low Back Pain: A Review. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1344-1358.	0.7	16
7	Walled vessel-mimicking phantom for ultrasound imaging using 3D printing with a water-soluble filament: design principle, fluid-structure interaction (FSI) simulation, and experimental validation. <i>Physics in Medicine and Biology</i> , 2020, 65, 085006.	1.6	9
8	Imaging Heart Dynamics With Ultrafast Cascaded-Wave Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1465-1479.	1.7	7
9	Bidirectional Ultrasound Elastographic Imaging Framework for Non-invasive Assessment of the Non-linear Behavior of a Physiologically Pressurized Artery. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1184-1196.	0.7	5
10	Multidirectional Estimation of Arterial Stiffness Using Vascular Guided Wave Imaging with Geometry Correction. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 884-896.	0.7	10
11	Ultrafast Ultrasound Imaging With Cascaded Dual-Polarity Waves. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 906-917.	5.4	13
12	Ultrafast Ultrasound Imaging Using Combined Transmissions With Cross-Coherence-Based Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 337-348.	5.4	17
13	Experimental Investigation of Guided Wave Imaging in Thin Soft Media under Various Coupling Conditions. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2821-2837.	0.7	6
14	Effects of tissue mechanical and acoustic anisotropies on the performance of a cross-correlation-based ultrasound strain imaging method. <i>Physics in Medicine and Biology</i> , 2017, 62, 1456-1479.	1.6	4
15	Transmural transverse stiffness estimation in vascular shear wave imaging: A simulation and phantom study. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	12
16	Shear wave elastography for the characterization of arterial wall stiffness: A thin-plate phantom and ex vivo aorta study. , 2017, , .		0
17	Notice of Removal: In vivo mapping of transverse shear and principal strains in interventricular septum using coherent diverging wave compounding. , 2017, , .		0
18	Notice of Removal: A new method for shear wave speed estimation in anisotropic tissues using wavelet transform and dynamic programming. , 2017, , .		0

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19	Notice of Removal: Estimation of arterial transverse stiffness using vascular guided wave imaging (VGWI) in comparison with pulse wave imaging (PWI). , 2017, , .		0
20	Notice of Removal: Multi-plane estimation of the third- and fourth-order elastic constants of soft material. , 2017, , .		0
21	Notice of Removal: Experimental investigation of shear wave imaging in thin soft media in various coupling conditions. , 2017, , .		2
22	MEMS pressure sensor array wearable for Traditional Chinese Medicine pulse-taking. , 2017, , .		9
23	Ultrafast imaging using combined transmissions with coherence-based reconstruction. , 2016, , .		1
24	Shear Wave Imaging of Passive Diastolic Myocardial Stiffness. JACC: Cardiovascular Imaging, 2016, 9, 1023-1030.	2.3	59
25	Systematic Performance Evaluation of a Cross-Correlation-Based Ultrasound Strain Imaging Method. Ultrasound in Medicine and Biology, 2016, 42, 2436-2456.	0.7	28
26	The effect of tissue anisotropy on ultrasound strain imaging (USI): A preliminary study. , 2015, , .		0
27	Carpal Tunnel Syndrome: US Strain Imaging for Diagnosis. Radiology, 2015, 275, 205-214.	3.6	36
28	Beamforming effects on generalized Nakagami imaging. Physics in Medicine and Biology, 2015, 60, 7513-7531.	1.6	23
29	Characterization of the heart muscle anisotropy using ultrasound Nakagami imaging. , 2014, , .		3
30	On the feasibility of speckle reduction in echocardiography using strain compounding. , 2014, , .		1
31	Assessment of median nerve mobility by ultrasound dynamic imaging in carpal tunnel syndrome diagnosis. , 2013, , .		1
32	Monitoring the lesion formation during histotripsy treatment using shear wave imaging. , 2012, , .		0
33	Ultrasound elastic tensor imaging: comparison with MR diffusion tensor imaging in the myocardium. Physics in Medicine and Biology, 2012, 57, 5075-5095.	1.6	77
34	Mapping Myocardial Fiber Orientation Using Echocardiography-Based Shear Wave Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 554-562.	5.4	144
35	Physiologic Cardiovascular Strain and Intrinsic Wave Imaging. Annual Review of Biomedical Engineering, 2011, 13, 477-505.	5.7	38
36	Reduced thoracolumbar fascia shear strain in human chronic low back pain. BMC Musculoskeletal Disorders, 2011, 12, 203.	0.8	220

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37	<i>In vivo</i> study of myocardial elastography under graded ischemia conditions. <i>Physics in Medicine and Biology</i> , 2011, 56, 1155-1172.	1.6	56
38	Imaging the electromechanical activity of the heart in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8565-8570.	3.3	71
39	Registered 3D Tagged MRI and Ultrasound Myocardial Elastography: Quantitative Strain Comparison. , 2011, , 281-307.		0
40	Electromechanical Wave Imaging of Normal and Ischemic Hearts <i>In Vivo</i> . <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 625-635.	5.4	73
41	In vivo validation of Myocardial Elastography under graded ischemia conditions. , 2010, , .		0
42	Evaluation of local arterial stiffness using ultrafast imaging: A comparative study using local arterial pulse wave velocity estimation and shear wave imaging. , 2010, , .		7
43	Noninvasive assessment of myocardial anisotropy in vitro and in vivo using Supersonic Shear Wave Imaging. , 2010, , .		5
44	Electromechanical Wave Imaging for non-invasive localization and quantification of partially ischemic regions in vivo. , 2010, , .		1
45	Non-invasive localization and quantification of graded ischemia using Electromechanical Wave Imaging in vivo. , 2009, , .		0
46	Fundamental performance assessment of 2-D myocardial elastography in a phased-array configuration. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 2320-2327.	1.7	26
47	Angle-independent and multi-dimensional myocardial elastography – From theory to clinical validation. <i>Ultrasonics</i> , 2008, 48, 563-567.	2.1	21
48	Preliminary Validation of Angle-Independent Myocardial Elastography Using MR Tagging in a Clinical Setting. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1980-1997.	0.7	47
49	A composite high-frame-rate system for clinical cardiovascular imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 2221-2233.	1.7	93
50	Fundamental performance assessment of 2-D myocardial elastography in a phased array configuration. , 2008, , .		3
51	Pulse wave imaging of human abdominal aortas in vivo. , 2008, , .		0
52	In vivo validation of 2D myocardial elastography at variable levels of ischemia. , 2008, , .		0
53	Angle-independent myocardial elastography: theoretical analysis and clinical validation. , 2007, , .		3
54	A novel, view-independent method for strain mapping in myocardial elastography: eliminating angle and centroid dependence. <i>Physics in Medicine and Biology</i> , 2007, 52, 4063-4080.	1.6	61

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55	Validation of myocardial elastography using MR tagging in normal and abnormal human hearts in vivo. , 2007, , .		2
56	10B-6 A Composite Imaging Technique for High Frame-Rate and Full-View Cardiovascular Ultrasound and Elasticity Imaging. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	7
57	Theoretical Quality Assessment of Myocardial Elastography with In Vivo Validation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2233-2245.	1.7	104
58	9A-1 Experimental Assessment of Angle-Independent Myocardial Elastography Performance Using a Left-Ventricular Phantom Undergoing Physiologic Motion. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	1
59	9A-3 Clinical Validation of Angle-Independent Myocardial Elastography Using MRI Tagging. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
60	P4A-2 An In-Vivo Study of Frame Rate Optimization for Myocardial Elastography. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	6
61	Ultrasound Myocardial Elastography and Registered 3D Tagged MRI: Quantitative Strain Comparison. , 2007, 10, 800-808.		6
62	A Theoretical Performance Assessment Tool for Myocardial Elastography. , 2005, 2006, 985-8.		3
63	An Efficient Speckle Tracking Algorithm for Ultrasonic Imaging. Ultrasonic Imaging, 2002, 24, 215-228.	1.4	27
64	Angle-independent strain mapping in myocardial elastography 2D strain tensor characterization and principal component imaging. , 0, , .		11