Jingfeng Jiang

List of Publications by Year
in descending order

80 papers	1,853 citations	236912 25 h-index	289230 40 g-index
82 all docs	82 docs citations	82 times ranked	1491 citing authors

#	ARTICLE	IF	CITATIONS
1	pH Responsive and Oxidation Resistant Wet Adhesive based on Reversible Catechol–Boronate Complexation. Chemistry of Materials, 2016, 28, 5432-5439.	6.7	157
2	Linear and nonlinear elasticity imaging of soft tissue *in vivo*: demonstration of feasibility. Physics in Medicine and Biology, 2009, 54, 1191-1207.	3.0	138
3	Automatic Semantic Segmentation of Brain Gliomas from MRI Images Using a Deep Cascaded Neural Network. Journal of Healthcare Engineering, 2018, 2018, 1-14.	1.9	130
4	Linear and Nonlinear Elastic Modulus Imaging: An Application to Breast Cancer Diagnosis. IEEE Transactions on Medical Imaging, 2012, 31, 1628-1637.	8.9	103
5	A finite-element approach for young's modulus reconstruction. IEEE Transactions on Medical Imaging, 2003, 22, 890-901.	8.9	76
6	A Generalized Speckle Tracking Algorithm for Ultrasonic Strain Imaging Using Dynamic Programming. Ultrasound in Medicine and Biology, 2009, 35, 1863-1879.	1.5	70
7	A parallelizable real-time motion tracking algorithm with applications to ultrasonic strain imaging. Physics in Medicine and Biology, 2007, 52, 3773-3790.	3.0	67
8	Recent Results in Nonlinear Strain and Modulus Imaging. Current Medical Imaging, 2011, 7, 313-327.	0.8	62
9	A novel performance descriptor for ultrasonic strain imaging: a preliminary study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1088-1102.	3.0	59
10	Three-Dimensional Electrode Displacement Elastography Using the Siemens C7F2 fourSight Four-Dimensional Ultrasound Transducer. Ultrasound in Medicine and Biology, 2008, 34, 1307-1316.	1.5	52
11	Progressive global perception and local polishing network for lung infection segmentation of COVID-19 CT images. Pattern Recognition, 2021, 120, 108168.	8.1	51
12	A coupled subsample displacement estimation method for ultrasound-based strain elastography. Physics in Medicine and Biology, 2015, 60, 8347-8364.	3.0	47
13	Young's Modulus Reconstruction for Radio-Frequency Ablation Electrode-Induced Displacement Fields: A Feasibility Study. IEEE Transactions on Medical Imaging, 2009, 28, 1325-1334.	8.9	40
14	Volumetric Elasticity Imaging with a 2-D CMUT Array. Ultrasound in Medicine and Biology, 2010, 36, 978-990.	1.5	38
15	Computational Fluid Dynamics Simulations of Intracranial Aneurysms at Varying Heart Rates: A "Patient-Specific" Study. Journal of Biomechanical Engineering, 2009, 131, 091001.	1.3	35
16	A fast hybrid algorithm combining regularized motion tracking and predictive search for reducing the occurrence of large displacement errors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 730-736.	3.0	35
17	Flow characteristics in a canine aneurysm model: A comparison of 4D accelerated phase–contrast MR measurements and computational fluid dynamics simulations. Medical Physics, 2011, 38, 6300-6312.	3.0	34
18	Electrode displacement strain imaging of thermally–ablated liver tissue in an *in vivo* animal model. Medical Physics, 2010, 37, 1075-1082.	3.0	33

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19	Comparison of blood velocity measurements between ultrasound Doppler and accelerated phase-contrast MR angiography in small arteries with disturbed flow. Physics in Medicine and Biology, 2011, 56, 1755-1773.	3.0	31
20	Transitional hemodynamics in intracranial aneurysms â€" Comparative velocity investigations with high resolution lattice Boltzmann simulations, normal resolution ANSYS simulations, and MR imaging. Medical Physics, 2016, 43, 6186-6198.	3.0	30
21	Neural-network-based Motion Tracking for Breast Ultrasound Strain Elastography: An Initial Assessment of Performance and Feasibility. Ultrasonic Imaging, 2020, 42, 74-91.	2.6	30
22	A nonlinear elasticity phantom containing spherical inclusions. Physics in Medicine and Biology, 2012, 57, 4787-4804.	3.0	29
23	Ultrasound-based relative elastic modulus imaging for visualizing thermal ablation zones in a porcine model. Physics in Medicine and Biology, 2010, 55, 2281-2306.	3.0	28
24	Visualizing Tendon Elasticity in an exÂVivo Partial Tear Model. Ultrasound in Medicine and Biology, 2014, 40, 158-167.	1.5	28
25	Building a virtual simulation platform for quasistatic breast ultrasound elastography using open source software: A preliminary investigation. Medical Physics, 2015, 42, 5453-5466.	3.0	26
26	A Novel Image Formation Method for Ultrasonic Strain Imaging. Ultrasound in Medicine and Biology, 2007, 33, 643-652.	1.5	25
27	Elastic nonlinearity imaging. , 2009, 2009, 1967-70.		25
28	A GPU-Accelerated 3-D Coupled Subsample Estimation Algorithm for Volumetric Breast Strain Elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 694-705.	3.0	23
29	6F-3 A Regularized Real-Time Motion Tracking Algorithm Using Dynamic Programming for Ultrasonic Strain Imaging. , 2006, , .		19
30	A Convolution Neural Network-Based Speckle Tracking Method for Ultrasound Elastography. , 2018, , .		18
31	A comparison of hyperelastic constitutive models applicable to shear wave elastography (SWE) data in tissue-mimicking materials. Physics in Medicine and Biology, 2019, 64, 055014.	3.0	18
32	In Vivo Classification of Breast Masses Using Features Derived From Axial-Strain and Axial-Shear Images. Ultrasonic Imaging, 2012, 34, 222-236.	2.6	17
33	A 3-D Region-Growing Motion-Tracking Method for Ultrasound Elasticity Imaging. Ultrasound in Medicine and Biology, 2018, 44, 1638-1653.	1.5	17
34	Disturbed flow's impact on cellular changes indicative of vascular aneurysm initiation, expansion, and rupture: A pathological and methodological review. Journal of Cellular Physiology, 2022, 237, 278-300.	4.1	17
35	Finite element analysis of tissue deformation with a radiofrequency ablation electrode for strain imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 281-289.	3.0	16
36	A PDE-Based Regularization Algorithm Toward Reducing Speckle Tracking Noise. Ultrasonic Imaging, 2015, 37, 277-293.	2.6	16

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37	Building an open-source simulation platform of acoustic radiation force-based breast elastography. Physics in Medicine and Biology, 2017, 62, 1949-1968.	3.0	14
38	A Real-Time Medical Ultrasound Simulator Based on a Generative Adversarial Network Model. , 2019, 2019, 4629-4633.		14
39	Anthropomorphic Phantoms for Assessment of Strain Imaging Methods Involving Saline-Infused Sonohysterography. Ultrasound in Medicine and Biology, 2008, 34, 1622-1637.	1.5	13
40	Multivariate analysis of hemodynamic parameters on intracranial aneurysm initiation of the internal carotid artery. Medical Engineering and Physics, 2019, 74, 129-136.	1.7	13
41	Relative Elastic Modulus Imaging Using Sector Ultrasound Data for Abdominal Applications: An Evaluation of Strategies and Feasibility. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1432-1440.	3.0	12
42	Comparison of Displacement Tracking Algorithms for in Vivo Electrode Displacement Elastography. Ultrasound in Medicine and Biology, 2019, 45, 218-232.	1.5	12
43	Interactive Decomposition and Mapping of Saccular Cerebral Aneurysms Using Harmonic Functions: Its First Application With â€œPatient-Specificâ€•Computational Fluid Dynamics (CFD) Simulations. IEEE Transactions on Medical Imaging, 2013, 32, 153-164.	8.9	11
44	Vortex Analysis of Intra-Aneurismal Flow in Cerebral Aneurysms. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-16.	1.3	10
45	Quantitative analysis of flow vortices: differentiation of unruptured and ruptured medium-sized middle cerebral artery aneurysms. Acta Neurochirurgica, 2021, 163, 2339-2349.	1.7	10
46	Large-Strain 3-D in Vivo Breast Ultrasound Strain Elastography Using a Multi-compression Strategy and a Whole-Breast Scanning System. Ultrasound in Medicine and Biology, 2019, 45, 3145-3159.	1.5	8
47	An Application of Super-Resolution Generative Adversary Networks for Quasi-Static Ultrasound Strain Elastography: A Feasibility Study. IEEE Access, 2020, 8, 65769-65779.	4.2	8
48	Two Closely Spaced Aneurysms of the Supraclinoid Internal Carotid Artery: How Does One Influence the Other?. Journal of Biomechanical Engineering, 2019, 141, .	1.3	8
49	Analyzing acoustoelastic effect of shear wave elastography data for perfused and hydrated soft tissues using a macromolecular network inspired model. Journal of Biomechanics, 2019, 97, 109370.	2.1	7
50	An Improved Region-Growing Motion Tracking Method Using More Prior Information for 3-D Ultrasound Elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 580-597.	3.0	7
51	A robust real-time speckle tracking algorithm for ultrasonic elasticity imaging. , 2009, , .		6
52	An analysis of intrinsic variations of low-frequency shear wave speed in a stochastic tissue model: the first application for staging liver fibrosis. Physics in Medicine and Biology, 2017, 62, 1149-1171.	3.0	6
53	<scp>GANâ€segNet</scp>: A deep generative adversarial segmentation network for brain tumor semantic segmentation. International Journal of Imaging Systems and Technology, 2022, 32, 857-868.	4.1	6
54	Fourier-Domain Shift Matching: A Robust Time-of-Flight Approach for Shear Wave Speed Estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 729-740.	3.0	5

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55	Influence of Tissue Microstructure on Shear Wave Speed Measurements in Plane Shear Wave Elastography: A Computational Study in Lossless Fibrotic Liver Media. Ultrasonic Imaging, 2018, 40, 49-63.	2.6	5
56	Accelerating 3-D GPU-based Motion Tracking for Ultrasound Strain Elastography Using Sum-Tables: Analysis and Initial Results. Applied Sciences (Switzerland), 2019, 9, 1991.	2.5	5
57	A two-dimensional (2D) systems biology-based discrete liver tissue model: A simulation study with implications for ultrasound elastography of liver fibrosis. Computers in Biology and Medicine, 2019, 104, 227-234.	7.0	4
58	Modeling Uncertainty of Strain Ratio Measurements in Ultrasound Breast Strain Elastography: A Factorial Experiment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 258-268.	3.0	4
59	Virtual Breast Quasi-static Elastography (VBQE). Ultrasonic Imaging, 2017, 39, 108-125.	2.6	3
60	Augmented Region-Growing-Based Motion Tracking Using Bayesian Inference For Quasi-Static Ultrasound Elastography. , 2020, , .		3
61	P1C-7 A Novel Strain Formation Algorithm for Ultrasonic Strain Imaging. , 2006, , .		2
62	P3D-3 Strain Image Contrast for Differentiating In Vivo Breast Lesions. , 2006, , .		2
63	In vivo ultrasound electrode displacement strain imaging. , 2009, , .		2
64	A Real-time Ultrasound Simulator Using Monte-Carlo Path Tracing in Conjunction with Optix Engine. , 2020, , .		2
65	Motion tracking for palpation imaging. , 0, , .		1
66	O-025 The WEB aneurysm embolization device: design, evolution and CFD evaluation. Journal of NeuroInterventional Surgery, 2011, 3, A11-A12.	3.3	1
67	A Comparative Study of Displacement De-Noising Strategies: An in Vivo Feasibility Study Using 3D Whole Breast Ultrasound Data. , 2018, , .		1
68	A Normalized Shear Deformation Indicator for Ultrasound Strain Elastography in Breast Tissues: An In Vivo Feasibility Study. BioMed Research International, 2018, 2018, 1-11.	1.9	1
69	Augmenting 3D Ultrasound Strain Elastography by combining Bayesian inference with local Polynomial fitting in Region-growing-based Motion Tracking. , 2021, , .		1
70	Computational aspects of young~s modulus reconstruction from ultrasonic freehand scanning. , 0, , .		0
71	P4F-7 Integration of a Pressure Sensing Array Into Ultrasound Elastography. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
72	5C-3 3D Electrode Displacement Elastography Using the Siemens C7F2 fourSight 4D Ultrasound Transducer. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0

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73	Nonlinear elasticity phantom containing spherical inclusions undergoing large deformations. , 2010, , .		0
74	Comparison study of displacement estimation methods for microwave ablation procedures using electrode displacement elastography. , 2017, , .		0
75	Characterizing mechanical properties of soft tissues using non-contact displacement measurements: how should we assess the uncertainty?. , 2021, 11645, .		0
76	Computational Assessment of Hemodynamics Vortices Within the Cerebral Vasculature Using. Methods in Molecular Biology, 2022, 2375, 247-260.	0.9	0
77	Ultrasound Vector Flow Mapping in Left Ventricle: A Do it Yourself Study. , 2021, , .		0
78	WE-C-330A-06: FEA and Phantom Tests of Ultrasound Temperature Maps During Thermal Therapy. Medical Physics, 2006, 33, 2230-2230.	3.0	0
79	TU-C-332-08: Comparison of Pulse-Echo Methods for Measuring Ultrasound Attenuation in the Liver. Medical Physics, 2008, 35, 2895-2895.	3.0	0
80	Performance Assessment of Motion Tracking Methods in Ultrasound-based Shear Wave Elastography. , 2020, , .		0