

# Jingfeng Jiang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,311

citations

20

h-index

34

g-index

82

ext. papers

1,614

ext. citations

3.8

avg, IF

4.74

L-index

#	Paper	IF	Citations
67	Computational Assessment of Hemodynamics Vortices Within the Cerebral Vasculature Using Informational Entropy. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2375, 247-260	1.4	
66	Quantitative analysis of flow vortices: differentiation of unruptured and ruptured medium-sized middle cerebral artery aneurysms. <i>Acta Neurochirurgica</i> , <b>2021</b> , 163, 2339-2349	3	1
65	Disturbed flow's impact on cellular changes indicative of vascular aneurysm initiation, expansion, and rupture: A pathological and methodological review. <i>Journal of Cellular Physiology</i> , <b>2021</b> ,	7	2
64	Progressive global perception and local polishing network for lung infection segmentation of COVID-19 CT images. <i>Pattern Recognition</i> , <b>2021</b> , 120, 108168	7.7	17
63	. <i>IEEE Access</i> , <b>2020</b> , 8, 65769-65779	3.5	1
62	Neural-network-based Motion Tracking for Breast Ultrasound Strain Elastography: An Initial Assessment of Performance and Feasibility. <i>Ultrasonic Imaging</i> , <b>2020</b> , 42, 74-91	1.9	11
61	An Improved Region-Growing Motion Tracking Method Using More Prior Information for 3-D Ultrasound Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 580-597	3.2	1
60	Augmented Region-Growing-Based Motion Tracking Using Bayesian Inference For Quasi-Static Ultrasound Elastography <b>2020</b> ,		1
59	Modeling Uncertainty of Strain Ratio Measurements in Ultrasound Breast Strain Elastography: A Factorial Experiment. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 258-268	3.2	2
58	A REAL-TIME MEDICAL ULTRASOUND SIMULATOR BASED ON A GENERATIVE ADVERSARIAL NETWORK MODEL. <i>Proceedings International Conference on Image Processing</i> , <b>2019</b> , 2019, 4629-4633	1.6	6
57	Multivariate analysis of hemodynamic parameters on intracranial aneurysm initiation of the internal carotid artery. <i>Medical Engineering and Physics</i> , <b>2019</b> , 74, 129-136	2.4	4
56	A comparison of hyperelastic constitutive models applicable to shear wave elastography (SWE) data in tissue-mimicking materials. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 055014	3.8	7
55	Accelerating 3-D GPU-based Motion Tracking for Ultrasound Strain Elastography Using Sum-Tables: Analysis and Initial Results. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9,	2.6	2
54	Analyzing acoustoelastic effect of shear wave elastography data for perfused and hydrated soft tissues using a macromolecular network inspired model. <i>Journal of Biomechanics</i> , <b>2019</b> , 97, 109370	2.9	4
53	Large-Strain 3-D in Vivo Breast Ultrasound Strain Elastography Using a Multi-compression Strategy and a Whole-Breast Scanning System. <i>Ultrasound in Medicine and Biology</i> , <b>2019</b> , 45, 3145-3159	3.5	3
52	Two closely-spaced Aneurysms of the Supraclinoid Internal Carotid Artery: How Does One Influence the Other?. <i>Journal of Biomechanical Engineering</i> , <b>2019</b> ,	2.1	3
51	Comparison of Displacement Tracking Algorithms for in Vivo Electrode Displacement Elastography. <i>Ultrasound in Medicine and Biology</i> , <b>2019</b> , 45, 218-232	3.5	7

50	A two-dimensional (2D) systems biology-based discrete liver tissue model: A simulation study with implications for ultrasound elastography of liver fibrosis. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 104, 227-234	7	1
49	Fourier-Domain Shift Matching: A Robust Time-of-Flight Approach for Shear Wave Speed Estimation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 729-740	3.2	2
48	Influence of Tissue Microstructure on Shear Wave Speed Measurements in Plane Shear Wave Elastography: A Computational Study in Lossless Fibrotic Liver Media. <i>Ultrasonic Imaging</i> , <b>2018</b> , 40, 49-63 <sup>1.9</sup>		4
47	A Convolution Neural Network-Based Speckle Tracking Method for Ultrasound Elastography <b>2018</b> ,		12
46	Validation of Quantitative Linear and Nonlinear Compression Elastography <b>2018</b> , 129-142		2
45	Ultrasonic Methods for Assessment of Tissue Motion in Elastography <b>2018</b> , 35-70		
44	A 3-D Region-Growing Motion-Tracking Method for Ultrasound Elasticity Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2018</b> , 44, 1638-1653	3.5	9
43	A Normalized Shear Deformation Indicator for Ultrasound Strain Elastography in Breast Tissues: An Feasibility Study. <i>BioMed Research International</i> , <b>2018</b> , 2018, 2053612	3	1
42	Automatic Semantic Segmentation of Brain Gliomas from MRI Images Using a Deep Cascaded Neural Network. <i>Journal of Healthcare Engineering</i> , <b>2018</b> , 2018, 4940593	3.7	74
41	An analysis of intrinsic variations of low-frequency shear wave speed in a stochastic tissue model: the first application for staging liver fibrosis. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 1149-1171	3.8	5
40	A GPU-Accelerated 3-D Coupled Subsample Estimation Algorithm for Volumetric Breast Strain Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 694-705	3.2	12
39	Building an open-source simulation platform of acoustic radiation force-based breast elastography. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 1949-1968	3.8	9
38	Virtual Breast Quasi-static Elastography (VBQE). <i>Ultrasonic Imaging</i> , <b>2017</b> , 39, 108-125	1.9	3
37	pH Responsive and Oxidation Resistant Wet Adhesive based on Reversible Catechol-Boronate Complexation. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5432-5439	9.6	121
36	Vortex Analysis of Intra-Aneurismal Flow in Cerebral Aneurysms. <i>Computational and Mathematical Methods in Medicine</i> , <b>2016</b> , 2016, 7406215	2.8	7
35	Transitional hemodynamics in intracranial aneurysms - Comparative velocity investigations with high resolution lattice Boltzmann simulations, normal resolution ANSYS simulations, and MR imaging. <i>Medical Physics</i> , <b>2016</b> , 43, 6186	4.4	22
34	Relative Elastic Modulus Imaging Using Sector Ultrasound Data for Abdominal Applications: An Evaluation of Strategies and Feasibility. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2016</b> , 63, 1432-40	3.2	5
33	Building a virtual simulation platform for quasistatic breast ultrasound elastography using open source software: A preliminary investigation. <i>Medical Physics</i> , <b>2015</b> , 42, 5453-66	4.4	17

32	A PDE-Based Regularization Algorithm Toward Reducing Speckle Tracking Noise: A Feasibility Study for Ultrasound Breast Elastography. <i>Ultrasonic Imaging</i> , <b>2015</b> , 37, 277-93	1.9	9
31	A coupled subsample displacement estimation method for ultrasound-based strain elastography. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 8347-64	3.8	33
30	Visualizing tendon elasticity in an ex vivo partial tear model. <i>Ultrasound in Medicine and Biology</i> , <b>2014</b> , 40, 158-67	3.5	20
29	Interactive decomposition and mapping of saccular cerebral aneurysms using harmonic functions: its first application with "patient-specific" computational fluid dynamics (CFD) simulations. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 153-64	11.7	8
28	Linear and nonlinear elastic modulus imaging: an application to breast cancer diagnosis. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 1628-37	11.7	88
27	A nonlinear elasticity phantom containing spherical inclusions. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 4787-804	3.8	26
26	In vivo classification of breast masses using features derived from axial-strain and axial-shear images. <i>Ultrasonic Imaging</i> , <b>2012</b> , 34, 222-36	1.9	16
25	A fast hybrid algorithm combining regularized motion tracking and predictive search for reducing the occurrence of large displacement errors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2011</b> , 58, 730-6	3.2	27
24	Recent results in nonlinear strain and modulus imaging. <i>Current Medical Imaging</i> , <b>2011</b> , 7, 313-327	1.2	53
23	O-025 The WEB aneurysm embolization device: design, evolution and CFD evaluation. <i>Journal of NeuroInterventional Surgery</i> , <b>2011</b> , 3, A11-A12	7.8	1
22	Comparison of blood velocity measurements between ultrasound Doppler and accelerated phase-contrast MR angiography in small arteries with disturbed flow. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 1755-73	3.8	21
21	Flow characteristics in a canine aneurysm model: a comparison of 4D accelerated phase-contrast MR measurements and computational fluid dynamics simulations. <i>Medical Physics</i> , <b>2011</b> , 38, 6300-12	4.4	23
20	Electrode displacement strain imaging of thermally-ablated liver tissue in an in vivo animal model. <i>Medical Physics</i> , <b>2010</b> , 37, 1075-82	4.4	26
19	Ultrasound-based relative elastic modulus imaging for visualizing thermal ablation zones in a porcine model. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 2281-306	3.8	20
18	Volumetric elasticity imaging with a 2-D CMUT array. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 978-99.5	9.5	28
17	A robust real-time speckle tracking algorithm for ultrasonic elasticity imaging <b>2009</b> ,		4
16	Computational fluid dynamics simulations of intracranial aneurysms at varying heart rates: a "patient-specific" study. <i>Journal of Biomechanical Engineering</i> , <b>2009</b> , 131, 091001	2.1	31
15	Young's modulus reconstruction for radio-frequency ablation electrode-induced displacement fields: a feasibility study. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 1325-34	11.7	36

14	A generalized speckle tracking algorithm for ultrasonic strain imaging using dynamic programming. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 1863-79	3.5	50
13	Linear and nonlinear elasticity imaging of soft tissue in vivo: demonstration of feasibility. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 1191-207	3.8	120
12	In vivo ultrasound electrode displacement strain imaging <b>2009</b> ,		2
11	Elastic nonlinearity imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 1967-70	0.9	17
10	Anthropomorphic phantoms for assessment of strain imaging methods involving saline-infused sonohysterography. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 1622-37	3.5	10
9	Three-dimensional electrode displacement elastography using the Siemens C7F2 fourSight four-dimensional ultrasound transducer. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 1307-16	3.5	42
8	TU-C-332-08: Comparison of Pulse-Echo Methods for Measuring Ultrasound Attenuation in the Liver. <i>Medical Physics</i> , <b>2008</b> , 35, 2895-2895	4.4	
7	Finite element analysis of tissue deformation with a radiofrequency ablation electrode for strain imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2007</b> , 54, 281-9	3.2	14
6	A parallelizable real-time motion tracking algorithm with applications to ultrasonic strain imaging. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 3773-90	3.8	54
5	A novel image formation method for ultrasonic strain imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2007</b> , 33, 643-52	3.5	18
4	P1C-7 A Novel Strain Formation Algorithm for Ultrasonic Strain Imaging <b>2006</b> ,		2
3	6F-3 A Regularized Real-Time Motion Tracking Algorithm Using Dynamic Programming for Ultrasonic Strain Imaging <b>2006</b> ,		15
2	A novel performance descriptor for ultrasonic strain imaging: a preliminary study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2006</b> , 53, 1088-102	3.2	50
1	A finite-element approach for Young's modulus reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2003</b> , 22, 890-901	11.7	69