

Abbas Samani

List of Publications by Citations

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Version: 2024-04-24

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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.

59
papers

1,783
citations

16
h-index

42
g-index

66
ext. papers

2,057
ext. citations

4
avg, IF

4.74
L-index

#	Paper	IF	Citations
59	Elastic moduli of normal and pathological human breast tissues: an inversion-technique-based investigation of 169 samples. <i>Physics in Medicine and Biology</i> , 2007 , 52, 1565-76	3.8	459
58	Visualization and quantification of breast cancer biomechanical properties with magnetic resonance elastography. <i>Physics in Medicine and Biology</i> , 2000 , 45, 1591-610	3.8	261
57	Measuring the elastic modulus of ex vivo small tissue samples. <i>Physics in Medicine and Biology</i> , 2003 , 48, 2183-98	3.8	220
56	A method to measure the hyperelastic parameters of ex vivo breast tissue samples. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4395-405	3.8	140
55	Porous decellularized adipose tissue foams for soft tissue regeneration. <i>Biomaterials</i> , 2013 , 34, 3290-3025.6	5.6	121
54	Measurement of the hyperelastic properties of 44 pathological ex vivo breast tissue samples. <i>Physics in Medicine and Biology</i> , 2009 , 54, 2557-69	3.8	80
53	An inverse problem solution for measuring the elastic modulus of intact ex vivo breast tissue tumours. <i>Physics in Medicine and Biology</i> , 2007 , 52, 1247-60	3.8	79
52	Characterization and assessment of hyperelastic and elastic properties of decellularized human adipose tissues. <i>Journal of Biomechanics</i> , 2014 , 47, 3657-63	2.9	41
51	Measurement of the hyperelastic properties of tissue slices with tumour inclusion. <i>Physics in Medicine and Biology</i> , 2008 , 53, 7087-106	3.8	39
50	Wideband MRE and static mechanical indentation of human liver specimen: sensitivity of viscoelastic constants to the alteration of tissue structure in hepatic fibrosis. <i>Journal of Biomechanics</i> , 2014 , 47, 1665-74	2.9	36
49	A constrained reconstruction technique of hyperelasticity parameters for breast cancer assessment. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7489-508	3.8	29
48	Measurement of in vivo cerebral volumetric strain induced by the Valsalva maneuver. <i>Journal of Biomechanics</i> , 2014 , 47, 1652-7	2.9	22
47	Comparative biomechanical study of using decellularized human adipose tissues for post-mastectomy and post-lumpectomy breast reconstruction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 57, 235-45	4.1	21
46	Measurement of lung hyperelastic properties using inverse finite element approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 2852-9	5	19
45	Porous, Ventricular Extracellular Matrix-Derived Foams as a Platform for Cardiac Cell Culture. <i>BioResearch Open Access</i> , 2015 , 4, 374-88	2.4	16
44	Statistical finite element method for real-time tissue mechanics analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15, 595-608	2.1	16
43	CT-enhanced ultrasound image of a totally deflated lung for image-guided minimally invasive tumor ablative procedures. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 2627-30	5	14

42	Towards clinical prostate ultrasound elastography using full inversion approach. <i>Medical Physics</i> , 2014 , 41, 033501	4.4	12
41	CT image construction of a totally deflated lung using deformable model extrapolation. <i>Medical Physics</i> , 2011 , 38, 872-83	4.4	12
40	Measuring the quasi-static Young's modulus of the eardrum using an indentation technique. <i>Hearing Research</i> , 2010 , 263, 168-76	3.9	12
39	An iterative hyperelastic parameters reconstruction for breast cancer assessment 2008 ,		11
38	A novel fast full inversion based breast ultrasound elastography technique. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2219-33	3.8	10
37	A computational model of the left ventricle biomechanics using a composite material approach. <i>International Journal of Engineering Science</i> , 2017 , 111, 61-73	5.7	9
36	Estimation of lung's air volume and its variations throughout respiratory CT image sequences. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 152-8	5	9
35	Toward in vivo lung's tissue incompressibility characterization for tumor motion modeling in radiation therapy. <i>Medical Physics</i> , 2013 , 40, 051902	4.4	8
34	Lung CT image based automatic technique for COPD GOLD stage assessment. <i>Expert Systems With Applications</i> , 2017 , 85, 194-203	7.8	7
33	Towards computer based lung disease diagnosis using accurate lung air segmentation of CT images in exhalation and inhalation phases. <i>Expert Systems With Applications</i> , 2017 , 71, 396-403	7.8	7
32	Towards a biomechanics-based technique for assessing myocardial contractility: an inverse problem approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008 , 11, 243-55	2.1	6
31	A novel micro-to-macro structural approach for mechanical characterization of adipose tissue extracellular matrix. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 140-147	4.1	5
30	A novel micro-to-macro approach for cardiac tissue mechanics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 215-229	2.1	5
29	. <i>IEEE Transactions on Computational Imaging</i> , 2017 , 3, 774-782	4.5	5
28	Anatomy-based algorithm for automatic segmentation of human diaphragm in noncontrast computed tomography images. <i>Journal of Medical Imaging</i> , 2016 , 3, 046004	2.6	5
27	Estimation of the Young's moduli of fresh human oropharyngeal soft tissues using indentation testing. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 86, 352-358	4.1	4
26	A real-time trained system for robust speaker verification using relative space of anchor models. <i>Computer Speech and Language</i> , 2010 , 24, 545-561	2.8	4
25	Superviscous properties of the in vivo brain at large scales. <i>Acta Biomaterialia</i> , 2021 , 121, 393-404	10.8	4

24	A biomechanical approach for in vivo lung tumor motion prediction during external beam radiation therapy 2015 ,		3
23	Constructing a patient-specific computer model of the upper airway in sleep apnea patients. <i>Laryngoscope</i> , 2018 , 128, 277-282	3.6	3
22	Ultrasound Elastography of the Prostate Using an Unconstrained Modulus Reconstruction Technique: A Pilot Clinical Study. <i>Translational Oncology</i> , 2017 , 10, 744-751	4.9	3
21	CT image construction of the lung in a totally deflated mode 2009 ,		3
20	Detecting mechanical abnormalities in prostate tissue using FE-based image registration 2007 , 10, 244-51		3
19	A novel shape-similarity-based elastography technique for prostate cancer assessment. <i>Medical Physics</i> , 2015 , 42, 5110-9	4.4	2
18	Towards modeling tumor motion in the deflated lung for minimally invasive ablative procedures. <i>Computer Aided Surgery</i> , 2012 , 17, 211-20		2
17	In-vivo lung biomechanical modeling for effective tumor motion tracking in external beam radiation therapy. <i>Computers in Biology and Medicine</i> , 2021 , 130, 104231	7	2
16	Combining First- and Second-Order Continuity Constraints in Ultrasound Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2407-2418	3.2	2
15	Measurement of the hyperelastic properties of 72 normal homogeneous and heterogeneous ex vivo breast tissue samples. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 124, 104794 ^{4.1}		2
14	Constitutive modeling of menisci tissue: a critical review of analytical and numerical approaches. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 1979-1996	3.8	1
13	A finite element model of myocardial infarction using a composite material approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018 , 21, 33-46	2.1	1
12	Accelerated statistical shape model-based technique for tissue deformation estimation 2009 ,		1
11	Novel ultrasound elastography system for multifocal breast cancer assessment 2012 ,		1
10	Lung tumor motion prediction during lung brachytherapy using finite element model 2012 ,		1
9	A Tissue Mechanics Based Method to Improve Tissue Displacement Estimation in Ultrasound Elastography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 ,	0.9	1
8	A Composite Material Based Neural Network for Tissue Mechanical Properties Estimation Toward Stage Assessment of Infarction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2800-2803	0.9	1
7	MR and ultrasound cardiac image dynamic visualization and synchronization over Internet for distributed heart function diagnosis. <i>Computerized Medical Imaging and Graphics</i> , 2021 , 88, 101850	7.6	1

6	Estimation of the hyperelastic parameters of fresh human oropharyngeal soft tissues using indentation testing. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 108, 103798	4.1	1
5	Towards ultrasound probe positioning optimization during prostate needle biopsy using pressure feedback. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013 , 8, 1053-61	3.9	
4	Analytical Estimation of Out-of-plane Strain in Ultrasound Elastography to Improve Axial and Lateral Displacement Fields. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2055-2058	0.9	
3	Characterizing regional myofiber damage post acute myocardial infarction using global optimization. <i>Computers in Biology and Medicine</i> , 2021 , 130, 104207	7	
2	4DCT Ventilation Map Construction Using Biomechanics-base Image Registration and Enhanced Air Segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 6262-6266	0.9	
1	Incorporating Pathology-Induced Heterogeneities in a Patient-Specific Biomechanical Model of the Lung for Accurate Tumor Motion Estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 6964-6967	0.9	