

Ali C Akyildiz

List of Publications by Citations

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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.

24
papers

499
citations

12
h-index

22
g-index

36
ext. papers

639
ext. citations

3.7
avg, IF

3.59
L-index

#	Paper	IF	Citations
24	Uniaxial tensile testing approaches for characterisation of atherosclerotic plaques. <i>Journal of Biomechanics</i> , 2014 , 47, 793-804	2.9	80
23	Effects of intima stiffness and plaque morphology on peak cap stress. <i>BioMedical Engineering OnLine</i> , 2011 , 10, 25	4.1	77
22	Mechanical properties of human atherosclerotic intima tissue. <i>Journal of Biomechanics</i> , 2014 , 47, 773-83	2.9	66
21	Local axial compressive mechanical properties of human carotid atherosclerotic plaques-characterisation by indentation test and inverse finite element analysis. <i>Journal of Biomechanics</i> , 2013 , 46, 1759-66	2.9	64
20	Initial stress in biomechanical models of atherosclerotic plaques. <i>Journal of Biomechanics</i> , 2011 , 44, 2376-82	2.9	41
19	Calcifications in atherosclerotic plaques and impact on plaque biomechanics. <i>Journal of Biomechanics</i> , 2019 , 87, 1-12	2.9	32
18	The influence of axial image resolution on atherosclerotic plaque stress computations. <i>Journal of Biomechanics</i> , 2013 , 46, 689-95	2.9	23
17	3D Fiber Orientation in Atherosclerotic Carotid Plaques. <i>Journal of Structural Biology</i> , 2017 , 200, 28-35	3.4	19
16	The effects of plaque morphology and material properties on peak cap stress in human coronary arteries. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016 , 19, 771-9	2.1	17
15	Local anisotropic mechanical properties of human carotid atherosclerotic plaques - characterisation by micro-indentation and inverse finite element analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 43, 59-68	4.1	15
14	Mechanical Characterization of Thrombi Retrieved With Endovascular Thrombectomy in Patients With Acute Ischemic Stroke. <i>Stroke</i> , 2021 , 52, 2510-2517	6.7	15
13	Intima heterogeneity in stress assessment of atherosclerotic plaques. <i>Interface Focus</i> , 2018 , 8, 20170008	3.9	12
12	A Framework for Local Mechanical Characterization of Atherosclerotic Plaques: Combination of Ultrasound Displacement Imaging and Inverse Finite Element Analysis. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 968-79	4.7	10
11	Energy Dissipation in Ex Vivo Porcine Liver During Electrosurgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1211-1217	5	8
10	In Situ Mechanical Characterization of Multilayer Soft Tissue Using Ultrasound Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2595-2606	5	6
9	Colocalization of Intracoronary Lipid-Rich Plaques and Calcifications: An Integrated NIRS-IVUS Analysis. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 1627-1628	8.4	4
8	Morphometric and Mechanical Analyses of Calcifications and Fibrous Plaque Tissue in Carotid Arteries for Plaque Rupture Risk Assessment. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1429-1438	5.3	3

7	Multicomponent material property characterization of atherosclerotic human carotid arteries through a Bayesian Optimization based inverse finite element approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 126, 104996	4.1	2
6	A review on the association of thrombus composition with mechanical and radiological imaging characteristics in acute ischemic stroke. <i>Journal of Biomechanics</i> , 2021 , 129, 110816	2.9	2
5	Multicomponent Mechanical Characterization of Atherosclerotic Human Coronary Arteries: An Experimental and Computational Hybrid Approach. <i>Frontiers in Physiology</i> , 2021 , 12, 733009	4.6	2
4	Morphological Subtypes of Intracranial Internal Carotid Artery Arteriosclerosis and the Risk of Stroke. <i>Stroke</i> , 2021 , STROKEAHA121036213	6.7	1
3	In vitro and in silico modeling of endovascular stroke treatments for acute ischemic stroke. <i>Journal of Biomechanics</i> , 2021 , 127, 110693	2.9	0
2	Artery Buckling and Atherosclerotic Plaque Rupture under High Lumen Pressure 2019 , 229-255		
1	Identification of coronary plaque mechanical properties from ex vivo testing 2021 , 411-432		