

# Ali C Akyildiz

## 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.

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	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> , <b>2021</b> , 126, 104996	4.1	2
23	Morphological Subtypes of Intracranial Internal Carotid Artery Arteriosclerosis and the Risk of Stroke. <i>Stroke</i> , <b>2021</b> , STROKEAHA121036213	6.7	1
22	A review on the association of thrombus composition with mechanical and radiological imaging characteristics in acute ischemic stroke. <i>Journal of Biomechanics</i> , <b>2021</b> , 129, 110816	2.9	2
21	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> , <b>2021</b> , 68, 1425-1438 <sup>3</sup>	5.9	1438 <sup>3</sup>
20	Identification of coronary plaque mechanical properties from ex vivo testing <b>2021</b> , 411-432		
19	Mechanical Characterization of Thrombi Retrieved With Endovascular Thrombectomy in Patients With Acute Ischemic Stroke. <i>Stroke</i> , <b>2021</b> , 52, 2510-2517	6.7	15
18	Multicomponent Mechanical Characterization of Atherosclerotic Human Coronary Arteries: An Experimental and Computational Hybrid Approach. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 733009	4.6	2
17	In vitro and in silico modeling of endovascular stroke treatments for acute ischemic stroke. <i>Journal of Biomechanics</i> , <b>2021</b> , 127, 110693	2.9	0
16	Colocalization of Intracoronary Lipid-Rich Plaques and Calcifications: An Integrated NIRS-IVUS Analysis. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 1627-1628	8.4	4
15	Calcifications in atherosclerotic plaques and impact on plaque biomechanics. <i>Journal of Biomechanics</i> , <b>2019</b> , 87, 1-12	2.9	32
14	Artery Buckling and Atherosclerotic Plaque Rupture under High Lumen Pressure <b>2019</b> , 229-255		
13	Intima heterogeneity in stress assessment of atherosclerotic plaques. <i>Interface Focus</i> , <b>2018</b> , 8, 20170008 <sup>3,9</sup>	3.9	12
12	In Situ Mechanical Characterization of Multilayer Soft Tissue Using Ultrasound Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 2595-2606	5	6
11	3D Fiber Orientation in Atherosclerotic Carotid Plaques. <i>Journal of Structural Biology</i> , <b>2017</b> , 200, 28-35	3.4	19
10	Energy Dissipation in Ex Vivo Porcine Liver During Electrosurgery. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 1211-1217	5	8
9	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> , <b>2016</b> , 44, 968-79	4.7	10
8	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> , <b>2016</b> , 19, 771-9	2.1	17

7	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> , <b>2015</b> , 43, 59-68	4.1	15
6	Uniaxial tensile testing approaches for characterisation of atherosclerotic plaques. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 793-804	2.9	80
5	Mechanical properties of human atherosclerotic intima tissue. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 773-83	2.9	66
4	Local axial compressive mechanical properties of human carotid atherosclerotic plaques-characterisation by indentation test and inverse finite element analysis. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 1759-66	2.9	64
3	The influence of axial image resolution on atherosclerotic plaque stress computations. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 689-95	2.9	23
2	Initial stress in biomechanical models of atherosclerotic plaques. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 2376-82	2.9	41
1	Effects of intima stiffness and plaque morphology on peak cap stress. <i>BioMedical Engineering OnLine</i> , <b>2011</b> , 10, 25	4.1	77