

Yuan Huang

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.

25
papers

424
citations

13
h-index

20
g-index

26
ext. papers

568
ext. citations

4.2
avg, IF

3.14
L-index

#	Paper	IF	Citations
25	Material properties of components in human carotid atherosclerotic plaques: a uniaxial extension study. <i>Acta Biomaterialia</i> , 2014 , 10, 5055-5063	10.8	61
24	Coronary plaque structural stress is associated with plaque composition and subtype and higher in acute coronary syndrome: the BEACON I (Biomechanical Evaluation of Atheromatous Coronary Arteries) study. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 461-70	3.9	56
23	Impact of combined plaque structural stress and wall shear stress on coronary plaque progression, regression, and changes in composition. <i>European Heart Journal</i> , 2019 , 40, 1411-1422	9.5	40
22	Plaque Rupture in Coronary Atherosclerosis Is Associated With Increased Plaque Structural Stress. <i>JACC: Cardiovascular Imaging</i> , 2017 , 10, 1472-1483	8.4	40
21	Plaque Structural Stress Estimations Improve Prediction of Future Major Adverse Cardiovascular Events After Intracoronary Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	33
20	Layer- and Direction-Specific Material Properties, Extreme Extensibility and Ultimate Material Strength of Human Abdominal Aorta and Aneurysm: A Uniaxial Extension Study. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 2745-59	4.7	31
19	The influence of computational strategy on prediction of mechanical stress in carotid atherosclerotic plaques: comparison of 2D structure-only, 3D structure-only, one-way and fully coupled fluid-structure interaction analyses. <i>Journal of Biomechanics</i> , 2014 , 47, 1465-71	2.9	30
18	High Structural Stress and Presence of Intraluminal Thrombus Predict Abdominal Aortic Aneurysm 18F-FDG Uptake: Insights From Biomechanics. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	17
17	Maternal Blood Pressure Rise During Pregnancy and Offspring Obesity Risk at 4 to 7 Years Old: The Jiaying Birth Cohort. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017 , 102, 4315-4322	5.6	16
16	In vivo MRI-based simulation of fatigue process: a possible trigger for human carotid atherosclerotic plaque rupture. <i>BioMedical Engineering OnLine</i> , 2013 , 12, 36	4.1	15
15	Non-uniform shrinkage for obtaining computational start shape for in-vivo MRI-based plaque vulnerability assessment. <i>Journal of Biomechanics</i> , 2011 , 44, 2316-9	2.9	15
14	A uni-extension study on the ultimate material strength and extreme extensibility of atherosclerotic tissue in human carotid plaques. <i>Journal of Biomechanics</i> , 2015 , 48, 3859-67	2.9	14
13	Heterogeneity of Plaque Structural Stress Is Increased in Plaques Leading to MACE: Insights From the PROSPECT Study. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 1206-1218	8.4	14
12	Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. <i>European Radiology</i> , 2019 , 29, 4718-4729	8	11
11	Influence of overlapping pattern of multiple overlapping uncovered stents on the local mechanical environment: A patient-specific parameter study. <i>Journal of Biomechanics</i> , 2017 , 60, 188-196	2.9	7
10	Assessing robustness of carotid artery CT angiography radiomics in the identification of culprit lesions in cerebrovascular events. <i>Scientific Reports</i> , 2021 , 11, 3499	4.9	7
9	Neural network fusion: a novel CT-MR Aortic Aneurysm image segmentation method. <i>Proceedings of SPIE</i> , 2018 , 10574,	1.7	5

8	Greater aortic inflammation and calcification in abdominal aortic aneurysmal disease than atherosclerosis: a prospective matched cohort study. <i>Open Heart</i> , 2020 , 7, e001141	3	4
7	Bayesian Inference-Based Estimation of Normal Aortic, Aneurysmal and Atherosclerotic Tissue Mechanical Properties: From Material Testing, Modeling and Histology. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2269-2278	5	3
6	Low perfusion compartments in glioblastoma quantified by advanced magnetic resonance imaging and correlated with patient survival. <i>Radiotherapy and Oncology</i> , 2019 , 134, 17-24	5.3	2
5	The role of porosity and 3D cross-stent configuration of multiple overlapping uncovered stents in the management of complex aortic aneurysms Insights from haemodynamics. <i>Medicine in Novel Technology and Devices</i> , 2019 , 3, 100020	2.1	1
4	Biomechanical insight of the stent-induced thrombosis following flow-diverting strategy in the management of complicated aortic aneurysms. <i>International Angiology</i> , 2021 , 40, 52-59	2.2	1
3	Association of Collagen, Elastin, Glycosaminoglycans and Macrophages with Tissue Ultimate Material Strength and Stretch in Human Thoracic Aortic Aneurysms: A Uniaxial Tension Study.. <i>Journal of Biomechanical Engineering</i> , 2022 ,	2.1	1
2	Study on the association of wall shear stress and vessel structural stress with atherosclerosis: An experimental animal study. <i>Atherosclerosis</i> , 2021 , 320, 38-46	3.1	0
1	Estimation of the zero-pressure computational start shape of atherosclerotic plaques: Improving the backward displacement method with deformation gradient tensor.. <i>Journal of Biomechanics</i> , 2021 , 131, 110910	2.9	