

Yuan Huang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

670
citations

567281

15
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

908
citing authors

#	ARTICLE	IF	CITATIONS
1	Material properties of components in human carotid atherosclerotic plaques: A uniaxial extension study. <i>Acta Biomaterialia</i> , 2014, 10, 5055-5063.	8.3	81
2	Coronary Plaque Structural Stress Is Associated With Plaque Composition and Subtype and Higher in Acute Coronary Syndrome. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 461-470.	2.6	78
3	Plaque Rupture in Coronary Atherosclerosis Is Associated With Increased Plaque Structural Stress. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 1472-1483.	5.3	69
4	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.	2.2	68
5	Plaque Structural Stress Estimations Improve Prediction of Future Major Adverse Cardiovascular Events After Intracoronary Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	2.6	55
6	Heterogeneity of Plaque Structural Stress Is Increased in Plaques Leading to MACE. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1206-1218.	5.3	40
7	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, 2745-2759.	2.5	38
8	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, 1465-1471.	2.1	35
9	Assessing robustness of carotid artery CT angiography radiomics in the identification of culprit lesions in cerebrovascular events. <i>Scientific Reports</i> , 2021, 11, 3499.	3.3	26
10	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, 3859-3867.	2.1	22
11	High Structural Stress and Presence of Intraluminal Thrombus Predict Abdominal Aortic Aneurysm ¹⁸ F-FDG Uptake. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	2.6	22
12	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.	3.6	22
13	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.	2.7	17
14	Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. <i>European Radiology</i> , 2019, 29, 4718-4729.	4.5	17
15	Non-uniform shrinkage for obtaining computational start shape for in-vivo MRI-based plaque vulnerability assessment. <i>Journal of Biomechanics</i> , 2011, 44, 2316-2319.	2.1	15
16	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.	0.6	15
17	Neural network fusion: a novel CT-MR aortic aneurysm image segmentation method. , 2018, 10574, .		11
18	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.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Greater aortic inflammation and calcification in abdominal aortic aneurysmal disease than atherosclerosis: a prospective matched cohort study. <i>Open Heart</i> , 2020, 7, e001141.	2.3	9
20	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.	4.2	8
21	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.	0.8	5
22	High-intensity statin treatment is associated with reduced plaque structural stress and remodelling of artery geometry and plaque architecture. <i>European Heart Journal Open</i> , 2021, 1, .	2.3	3
23	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, 144, .	1.3	3
24	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.	1.6	1
25	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.	0.9	1
26	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> , 2022, 131, 110910.	2.1	0