Yuan Huang

List of Publications by Year in Descending Order

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	Association of Collagen, Elastin, Glycosaminoglycans and Macrophages with Tissue Ultimate Material Strength and Stretch in Human Thoracic Aortic Aneurysms: A Uniaxial Tension Study.. *Journal of Biomechanical Engineering*, **2022**,	2.1	1
24	Estimation of the zero-pressure computational start shape of atherosclerotic plaques: Improving the backward displacement method with deformation gradient tensor.. *Journal of Biomechanics*, **2021**, 131, 110910	2.9	
23	Study on the association of wall shear stress and vessel structural stress with atherosclerosis: An experimental animal study. *Atherosclerosis*, **2021**, 320, 38-46	3.1	0
22	Biomechanical insight of the stent-induced thrombosis following flow-diverting strategy in the management of complicated aortic aneurysms. *International Angiology*, **2021**, 40, 52-59	2.2	1
21	Assessing robustness of carotid artery CT angiography radiomics in the identification of culprit lesions in cerebrovascular events. *Scientific Reports*, **2021**, 11, 3499	4.9	7
20	Greater aortic inflammation and calcification in abdominal aortic aneurysmal disease than atherosclerosis: a prospective matched cohort study. *Open Heart*, **2020**, 7, e001141	3	4
19	Heterogeneity of Plaque Structural Stress Is Increased in Plaques Leading to MACE: Insights From the PROSPECT Study. *JACC: Cardiovascular Imaging*, **2020**, 13, 1206-1218	8.4	14
18	Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. *European Radiology*, **2019**, 29, 4718-4729	8	11
17	Low perfusion compartments in glioblastoma quantified by advanced magnetic resonance imaging and correlated with patient survival. *Radiotherapy and Oncology*, **2019**, 134, 17-24	5.3	2
16	Impact of combined plaque structural stress and wall shear stress on coronary plaque progression, regression, and changes in composition. *European Heart Journal*, **2019**, 40, 1411-1422	9.5	40
15	Bayesian Inference-Based Estimation of Normal Aortic, Aneurysmal and Atherosclerotic Tissue Mechanical Properties: From Material Testing, Modeling and Histology. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 2269-2278	5	3
14	The role of porosity and 3D cross-stent configuration of multiple overlapping uncovered stents in the management of complex aortic aneurysms Insights from haemodynamics. *Medicine in Novel Technology and Devices*, **2019**, 3, 100020	2.1	1
13	Neural network fusion: a novel CT-MR Aortic Aneurysm image segmentation method. *Proceedings of SPIE*, **2018**, 10574,	1.7	5
12	Plaque Rupture in Coronary Atherosclerosis Is Associated With Increased Plaque Structural Stress. *JACC: Cardiovascular Imaging*, **2017**, 10, 1472-1483	8.4	40
11	Influence of overlapping pattern of multiple overlapping uncovered stents on the local mechanical environment: A patient-specific parameter study. *Journal of Biomechanics*, **2017**, 60, 188-196	2.9	7
10	Maternal Blood Pressure Rise During Pregnancy and Offspring Obesity Risk at 4 to 7 Years Old: The Jiaxing Birth Cohort. *Journal of Clinical Endocrinology and Metabolism*, **2017**, 102, 4315-4322	5.6	16
9	Plaque Structural Stress Estimations Improve Prediction of Future Major Adverse Cardiovascular Events After Intracoronary Imaging. *Circulation: Cardiovascular Imaging*, **2016**, 9,	3.9	33

List of Publications

8	High Structural Stress and Presence of Intraluminal Thrombus Predict Abdominal Aortic Aneurysm 18F-FDG Uptake: Insights From Biomechanics. *Circulation: Cardiovascular Imaging*, **2016**, 9,	3.9	17
7	Layer- and Direction-Specific Material Properties, Extreme Extensibility and Ultimate Material Strength of Human Abdominal Aorta and Aneurysm: A Uniaxial Extension Study. *Annals of Biomedical Engineering*, **2015**, 43, 2745-59	4.7	31
6	A uni-extension study on the ultimate material strength and extreme extensibility of atherosclerotic tissue in human carotid plaques. *Journal of Biomechanics*, **2015**, 48, 3859-67	2.9	14
5	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. *Journal of Biomechanics*, **2014**, 47, 1465-71	2.9	30
4	Material properties of components in human carotid atherosclerotic plaques: a uniaxial extension study. *Acta Biomaterialia*, **2014**, 10, 5055-5063	10.8	61
3	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. *Circulation: Cardiovascular Imaging*, **2014**, 7, 461-70	3.9	56
2	In vivo MRI-based simulation of fatigue process: a possible trigger for human carotid atherosclerotic plaque rupture. *BioMedical Engineering OnLine*, **2013**, 12, 36	4.1	15
1	Non-uniform shrinkage for obtaining computational start shape for in-vivo MRI-based plaque vulnerability assessment. *Journal of Biomechanics*, **2011**, 44, 2316-9	2.9	15