Charles A Taylor

List of Publications by Year
in descending order

26 papers	2,480 citations	471509 17 h-index	610901 24 g-index
26 all docs	26 docs citations	26 times ranked	2853 citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Fluid Dynamics Applied to Cardiac Computed Tomography for Noninvasive Quantification of Fractional Flow Reserve. Journal of the American College of Cardiology, 2013, 61, 2233-2241.	2.8	958
2	Comparison of Coronary Computed Tomography Angiography, FractionalÂFlow Reserve, and PerfusionÂImaging for Ischemia Diagnosis. Journal of the American College of Cardiology, 2019, 73, 161-173.	2.8	266
3	Image-Based Modeling of Blood Flow and Vessel Wall Dynamics: Applications, Methods and Future Directions. Annals of Biomedical Engineering, 2010, 38, 1188-1203.	2.5	220
4	Noninvasive Fractional Flow Reserve Derived From Coronary CT Angiography. JACC: Cardiovascular Imaging, 2015, 8, 1209-1222.	5.3	206
5	Identification of High-Risk Plaques Destined to Cause Acute Coronary Syndrome Using Coronary Computed Tomographic Angiography and Computational FluidÂDynamics. JACC: Cardiovascular Imaging, 2019, 12, 1032-1043.	5.3	188
6	Coronary Artery Axial Plaque Stress and its Relationship With Lesion Geometry. JACC: Cardiovascular Imaging, 2015, 8, 1156-1166.	5.3	97
7	Computational fluid dynamic measures of wall shear stress are related to coronary lesion characteristics. Heart, 2016, 102, 1655-1661.	2.9	84
8	Effect of the ratio of coronary arterial lumen volume to left ventricle myocardial mass derived from coronary CT angiography on fractional flow reserve. Journal of Cardiovascular Computed Tomography, 2017, 11, 429-436.	1.3	65
9	FFR Derived FromÂCoronary CT Angiography inÂNonculpritÂLesions of Patients WithÂRecentÂSTEMI. JACC: Cardiovascular Imaging, 2017, 10, 424-433.	5.3	64
10	Predicting the Physiological Effect of Revascularization in Serially Diseased Coronary Arteries. Circulation: Cardiovascular Interventions, 2019, 12, e007577.	3.9	52
11	Predictive value of targeted proteomics for coronary plaque morphology in patients with suspected coronary artery disease. EBioMedicine, 2019, 39, 109-117.	6.1	42
12	Cardiovascular flow simulation at extreme scale. Computational Mechanics, 2010, 46, 71-82.	4.0	39
13	Impact of Longitudinal Lesion Geometry on Location of Plaque Rupture and ClinicalÂPresentations. JACC: Cardiovascular Imaging, 2017, 10, 677-688.	5.3	39
14	Development of a Physical Windkessel Module to Re-Create In Vivo Vascular Flow Impedance for In Vitro Experiments. Cardiovascular Engineering and Technology, 2011, 2, 2-14.	1.6	38
15	Structural Mechanics Predictions Relating to Clinical Coronary Stent Fracture in a 5ÂYear Period in FDA MAUDE Database. Annals of Biomedical Engineering, 2016, 44, 391-403.	2.5	33
16	Coronary Computed Tomography Angiography Derived Fractional Flow Reserve and Plaque Stress. Current Cardiovascular Imaging Reports, 2016, 9, 2.	0.6	28
17	Hypertrophic Cardiomyopathy (HCM): New insights into Coronary artery remodelling and ischemia from FFRCT. Journal of Cardiovascular Computed Tomography, 2018, 12, 467-471.	1.3	17
18	Impact of sublingual nitroglycerin dosage on FFRCT assessment and coronary luminal volumeâ€"toâ€"myocardial mass ratio. European Radiology, 2019, 29, 6829-6836.	4.5	14

#	Article	IF	Citations
19	Cardiac computed tomography-derived coronary artery volume to myocardial mass. Journal of Cardiovascular Computed Tomography, 2022, 16, 198-206.	1.3	10
20	Diagnostic value of comprehensive on-site and off-site coronary CT angiography for identifying hemodynamically obstructive coronary artery disease. Journal of Cardiovascular Computed Tomography, 2021, 15, 37-45.	1.3	7
21	Evaluating Design of Abdominal Aortic Aneurysm Endografts in a Patient-Specific Model Using Computational Fluid Dynamics. Journal of Medical Devices, Transactions of the ASME, 2011, 5, .	0.7	4
22	Abdominal Aortic Hemodynamics in Intermittent Claudication Patients at Rest and during Dynamic Pedaling Exercise. Annals of Vascular Surgery, 2015, 29, 1516-1523.	0.9	4
23	The Use of Immunofluorescent Array Tomography to Study the Three-Dimensional Microstructure of Murine Blood Vessels. Cellular and Molecular Bioengineering, 2011, 4, 311-323.	2.1	3
24	Differences in coronary vasodilatory capacity and atherosclerosis in endurance athletes using coronary CTA and computational fluid dynamics (CFD): Comparison with a sedentary lifestyle. European Journal of Radiology, 2020, 130, 109168.	2.6	2
25	Influence of vessel roughness on wall shear stress in image-based blood flow modeling. , 2010, , .		0
26	Diagnostic performance of fractional flow reserve derived from computed tomography in stented coronary arteries. Journal of Cardiovascular Computed Tomography, 2022, , .	1.3	0