

Samarth S Raut

List of Publications by Year in descending order

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16
papers

462
citations

1162367

8
h-index

1473754

9
g-index

17
all docs

17
docs citations

17
times ranked

913
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of myocardial compressibility on organ-level simulations of the normal and infarcted heart. <i>Scientific Reports</i> , 2021, 11, 13466.	1.6	7
2	A Contemporary Look at Biomechanical Models of Myocardium. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 417-442.	5.7	50
3	Geometric surrogates of abdominal aortic aneurysm wall mechanics. <i>Medical Engineering and Physics</i> , 2018, 59, 43-49.	0.8	16
4	Electromechanical cardioplasty using a wrapped elasto-conductive epicardial mesh. <i>Science Translational Medicine</i> , 2016, 8, 344ra86.	5.8	181
5	An approach for patient-specific multi-domain vascular mesh generation featuring spatially varying wall thickness modeling. <i>Journal of Biomechanics</i> , 2015, 48, 1972-1981.	0.9	12
6	The Effect of Uncertainty in Vascular Wall Material Properties on Abdominal Aortic Aneurysm Wall Mechanics. , 2014, , 69-86.		4
7	Fluid-Structure Interaction Modeling of Abdominal Aortic Aneurysms: The Impact of Patient-Specific Inflow Conditions and Fluid/Solid Coupling. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 81001.	0.6	71
8	The Role of Geometric and Biomechanical Factors in Abdominal Aortic Aneurysm Rupture Risk Assessment. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1459-1477.	1.3	72
9	The Importance of Patient-Specific Regionally Varying Wall Thickness in Abdominal Aortic Aneurysm Biomechanics. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 81010.	0.6	37
10	AAA Rupture Risk Assessment in the Clinic: Wall Stress or Geometric Characterization?. , 2013, , .		0
11	Biological, Geometric and Biomechanical Factors Influencing Abdominal Aortic Aneurysm Rupture Risk: A Comprehensive Review. <i>Recent Patents on Medical Imaging</i> , 2013, 3, 44-59.	0.1	11
12	Estimation of Patient-Specific 3D In Vivo Abdominal Aortic Aneurysm Strain. , 2013, , .		0
13	MRI-Based Inflow Boundary Conditions for Patient Specific Fluid Structure Interaction Modeling of Abdominal Aortic Aneurysms. , 2012, , .		0
14	A Comprehensive Tool for Patient-Specific AAA Geometry and Biomechanics Assessment. , 2012, , .		0
15	Aortic Wall Mechanics: A Geometry-Driven Problem. , 2011, , .		0
16	Phase Contrast MRI Derived Boundary Conditions for Patient Specific AAA Fluid Flow Modeling. , 2009, , .		0