Olfa Trabelsi

List of Publications by Year
in descending order

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16 papers	463 citations	932766 10 h-index	940134 16 g-index
16 all docs	16 docs citations	16 times ranked	491 citing authors

#	Article	IF	Citations
1	A unified framework of cell population dynamics and mechanical stimulus using a discrete approach in bone remodelling. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 399-411.	0.9	2
2	A simple and effective 1D-element discrete-based method for computational bone remodeling. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 176-192.	0.9	2
3	In vitro histomechanical effects of enzymatic degradation in carotid arteries during inflation tests with pulsatile loading. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103550.	1.5	4
4	Inverse identification of local stiffness across ascending thoracic aortic aneurysms. Biomechanics and Modeling in Mechanobiology, 2019, 18, 137-153.	1.4	39
5	Identifying Local Arterial Stiffness to Assess the Risk of Rupture of Ascending Thoracic Aortic Aneurysms. Annals of Biomedical Engineering, 2019, 47, 1038-1050.	1.3	22
6	Biaxial rupture properties of ascending thoracic aortic aneurysms. Acta Biomaterialia, 2016, 42, 273-285.	4.1	105
7	Predictive Models with Patient Specific Material Properties for the Biomechanical Behavior of Ascending Thoracic Aneurysms. Annals of Biomedical Engineering, 2016, 44, 84-98.	1.3	24
8	Patient specific stress and rupture analysis of ascending thoracic aneurysms. Journal of Biomechanics, 2015, 48, 1836-1843.	0.9	55
9	Simulation of swallowing dysfunction and mechanical ventilation after a Montgomery T-tube insertion. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1596-1605.	0.9	5
10	A pre-operative planning for endoprosthetic human tracheal implantation: a decision support system based on robust design of experiments. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 750-767.	0.9	4
11	Anisotropic material behaviours of soft tissues in human trachea: An experimental study. Journal of Biomechanics, 2012, 45, 1717-1723.	0.9	41
12	FE simulation of human trachea swallowing movement before and after the implantation of an endoprothesis. Applied Mathematical Modelling, 2011, 35, 4902-4912.	2.2	14
13	Modeling of the fluid structure interaction of a human trachea under different ventilation conditions. International Communications in Heat and Mass Transfer, 2011, 38, 10-15.	2.9	27
14	Numerical modeling of a human stented trachea under different stent designs. International Communications in Heat and Mass Transfer, 2011, 38, 855-862.	2.9	30
15	Experimental characterization and constitutive modeling of the mechanical behavior of the human trachea. Medical Engineering and Physics, 2010, 32, 76-82.	0.8	86
16	Surgical Planning and Patient-Specific Biomechanical Simulation for Tracheal Endoprostheses Interventions. Lecture Notes in Computer Science, 2009, 12, 275-282.	1.0	3