

Abhay Bangalore Ramachandra

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

426
citations

759233

12
h-index

839539

18
g-index

21
all docs

21
docs citations

21
times ranked

400
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous reversal of stenosis in tissue-engineered vascular grafts. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	81
2	Optimization of Tissue-Engineered Vascular Graft Design Using Computational Modeling. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 561-570.	2.1	47
3	Patient-Specific Simulations Reveal Significant Differences in Mechanical Stimuli in Venous and Arterial Coronary Grafts. <i>Journal of Cardiovascular Translational Research</i> , 2016, 9, 279-290.	2.4	35
4	Gradual loading ameliorates maladaptation in computational simulations of vein graft growth and remodelling. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160995.	3.4	34
5	Computational Simulation of the Adaptive Capacity of Vein Grafts in Response to Increased Pressure. <i>Journal of Biomechanical Engineering</i> , 2015, 137, .	1.3	29
6	Excessive adventitial stress drives inflammation-mediated fibrosis in hypertensive aortic remodelling in mice. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210336.	3.4	24
7	Mechanics-driven mechanobiological mechanisms of arterial tortuosity. <i>Science Advances</i> , 2020, 6, .	10.3	24
8	Hemodynamic performance of tissue-engineered vascular grafts in Fontan patients. <i>Npj Regenerative Medicine</i> , 2021, 6, 38.	5.2	23
9	Biomechanical characterization of murine pulmonary arteries. <i>Journal of Biomechanics</i> , 2019, 84, 18-26.	2.1	21
10	A computational bio-chemo-mechanical model of in vivo tissue-engineered vascular graft development. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 47-63.	1.3	19
11	Effects of Braiding Parameters on Tissue Engineered Vascular Graft Development. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001093.	7.6	18
12	Tissue engineered vascular grafts transform into autologous neovessels capable of native function and growth. <i>Communications Medicine</i> , 2022, 2, .	4.2	18
13	Artery to vein configuration of arteriovenous fistula improves hemodynamics to increase maturation and patency. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	15
14	Computational Evaluation of Venous Graft Geometries in Coronary Artery Bypass Surgery. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2022, 34, 521-532.	0.6	12
15	Vascular adaptation in the presence of external support - A modeling study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103943.	3.1	10
16	Mechanisms of Hypoxia-Induced Pulmonary Arterial Stiffening in Mice Revealed by a Functional Genetics Assay of Structural, Functional, and Transcriptomic Data. <i>Frontiers in Physiology</i> , 2021, 12, 726253.	2.8	5
17	In vivo development of tissue engineered vascular grafts: a fluid-solid-growth model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2022, 21, 827-848.	2.8	5
18	Deletion of matrix metalloproteinase-12 compromises mechanical homeostasis and leads to an aged aortic phenotype in young mice. <i>Journal of Biomechanics</i> , 2022, 141, 111179.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Compromised Cardiopulmonary Function in Fibulin-5 Deficient Mice. Journal of Biomechanical Engineering, 2022, 144, .	1.3	0