

S I S Pinto

List of Publications by Year in descending order

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28
papers

211
citations

1307594

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h-index

1058476

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29
all docs

29
docs citations

29
times ranked

186
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between geometric parameters of the left coronary artery and hemodynamic descriptors of atherosclerosis: FSI and statistical study. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 715-729.	2.8	37
2	Numerical study of wall shear stress-based descriptors in the human left coronary artery. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1443-1455.	1.6	35
3	The Impact of the Right Coronary Artery Geometric Parameters on Hemodynamic Performance. <i>Cardiovascular Engineering and Technology</i> , 2019, 10, 257-270.	1.6	26
4	The impact of non-linear viscoelastic property of blood in right coronary arteries hemodynamics – numerical implementation. <i>International Journal of Non-Linear Mechanics</i> , 2020, 123, 103477.	2.6	22
5	Link between deviations from Murray’s Law and occurrence of low wall shear stress regions in the left coronary artery. <i>Journal of Theoretical Biology</i> , 2016, 402, 89-99.	1.7	14
6	A new membrane fractionation process based on the combination of hybrid membrane cells and differential diffusion of two solutes. <i>Desalination</i> , 2009, 241, 372-387.	8.2	8
7	Use of Hybrid Membrane Cells To Improve the Apparent Selectivity in the Fractionation of Two Components: Computational Fluid Dynamics Study. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9978-9987.	3.7	8
8	FSI modeling on the effect of artery-aneurysm thickness and coil embolization in patient cases. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 206, 106148.	4.7	8
9	Blood Analog Fluid Flow in Vessels with Stenosis: Development of an Openfoam Code to Simulate Pulsatile Flow and Elasticity of the Fluid. <i>APCBEE Procedia</i> , 2013, 7, 73-79.	0.5	7
10	Non-Linear or Quasi-Linear Viscoelastic Property of Blood for Hemodynamic Simulations. <i>Advanced Structured Materials</i> , 2020, , 127-139.	0.5	6
11	WSS Descriptors in a Patient RCA Taking into Account the Non-linear Viscoelasticity of Blood. <i>Advanced Structured Materials</i> , 2020, , 141-152.	0.5	5
12	A Numerical Study of the Apparent Selectivity in the Fractionation of Two Macromolecules by Ultrafiltration. <i>Separation Science and Technology</i> , 2012, 47, 936-949.	2.5	4
13	Numerical study on the hemodynamics of patient-specific carotid bifurcation using a new mesh approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2972.	2.1	4
14	Role of the left coronary artery geometry configuration in atherosusceptibility: CFD simulations considering sPTT model for blood. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1488-1503.	1.6	4
15	Numerical study of the effect of a charged membrane in the separation of electrically charged components. <i>Desalination and Water Treatment</i> , 2010, 14, 201-207.	1.0	3
16	The Effect of Variable Transport Properties in the Separation of Two Macromolecules by Differential Diffusivity in a Hybrid Membrane Cell – A CFD Study. <i>Separation Science and Technology</i> , 2011, 46, 1685-1698.	2.5	3
17	Interaction between the electric and concentration fields in the fractionation of two macromolecules using a Hybrid Membrane Cell – CFD study. <i>Desalination and Water Treatment</i> , 2011, 35, 209-221.	1.0	3
18	Patient-Specific Study of a Stenosed Carotid Artery Bifurcation Using Fluid-Structure Interactive Simulation. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018, , 495-503.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Modelling human liver microphysiology on a chip through a finite element based design approach. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3445.	2.1	3
20	PIV Analysis and Numerical Simulation of the Flow in Mili-scale Channels Developed for Studies in Hemodynamics. APCBEE Procedia, 2013, 7, 132-137.	0.5	2
21	Membrane Characterization Based on PEG Rejection and CFD Analysis. Separation Science and Technology, 2015, 50, 1823-1834.	2.5	2
22	Cognitive apprenticeship and T-shaped instructional design in computational fluid mechanics: Student perspectives on learning. International Journal of Mechanical Engineering Education, 2022, 50, 51-77.	1.0	2
23	The accuracy of the stagnant film equation in the study of electrophoretic migration of solutes near an ultrafiltration membrane—a numerical study. Desalination and Water Treatment, 2013, 51, 7509-7522.	1.0	1
24	Implementation and Comparison of Non-Newtonian Viscosity Models in Hemodynamic Simulations of Patient Coronary Arteries. Advanced Structured Materials, 2022, , 403-428.	0.5	1
25	Membrane Formation in Micro-Channels by Phase Inversion. Procedia Engineering, 2012, 44, 1504-1506.	1.2	0
26	New Separation Hybrid Membrane Cells Applied to Ultrafiltration Processes. Procedia Engineering, 2012, 44, 2027-2029.	1.2	0
27	Numerical study of the fractionation of two macromolecules with similar MW in a hybrid cell with electrically charged membranes. Desalination, 2013, 317, 95-107.	8.2	0
28	Geometry Reconstruction of a Patient-Specific Right Coronary Artery with Atherosclerotic Plaque for CFD Study. Lecture Notes in Computational Vision and Biomechanics, 2019, , 531-539.	0.5	0