

Diana Massai

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,097
citations

471509

17
h-index

434195

31
g-index

50
all docs

50
docs citations

50
times ranked

1689
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress and challenges in large-scale expansion of human pluripotent stem cells. <i>Process Biochemistry</i> , 2017, 59, 244-254.	3.7	131
2	On the Use of In Vivo Measured Flow Rates as Boundary Conditions for Image-Based Hemodynamic Models of the Human Aorta: Implications for Indicators of Abnormal Flow. <i>Annals of Biomedical Engineering</i> , 2012, 40, 729-741.	2.5	126
3	On the importance of blood rheology for bulk flow in hemodynamic models of the carotid bifurcation. <i>Journal of Biomechanics</i> , 2011, 44, 2427-2438.	2.1	93
4	Outflow Conditions for Image-Based Hemodynamic Models of the Carotid Bifurcation: Implications for Indicators of Abnormal Flow. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 091005.	1.3	80
5	A Survey of Methods for the Evaluation of Tissue Engineering Scaffold Permeability. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2027-2041.	2.5	74
6	Blood damage safety of prosthetic heart valves. Shear-induced platelet activation and local flow dynamics: A fluid-structure interaction approach. <i>Journal of Biomechanics</i> , 2009, 42, 1952-1960.	2.1	66
7	Quantitative Analysis of Bulk Flow in Image-Based Hemodynamic Models of the Carotid Bifurcation: The Influence of Outflow Conditions as Test Case. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3688-3705.	2.5	50
8	A Versatile Bioreactor for Dynamic Suspension Cell Culture. Application to the Culture of Cancer Cell Spheroids. <i>PLoS ONE</i> , 2016, 11, e0154610.	2.5	45
9	Automated Segmentation of Fluorescence Microscopy Images for 3D Cell Detection in human-derived Cardiospheres. <i>Scientific Reports</i> , 2019, 9, 6644.	3.3	44
10	The combined role of sinuses of Valsalva and flow pulsatility improves energy loss of the aortic valve. <i>European Journal of Cardio-thoracic Surgery</i> , 2016, 49, 1222-1227.	1.4	42
11	Bioreactors as Engineering Support to Treat Cardiac Muscle and Vascular Disease. <i>Journal of Healthcare Engineering</i> , 2013, 4, 329-370.	1.9	38
12	Shear-induced platelet activation and its relationship with blood flow topology in a numerical model of stenosed carotid bifurcation. <i>European Journal of Mechanics, B/Fluids</i> , 2012, 35, 92-101.	2.5	31
13	Three dimensional multi-cellular muscle-like tissue engineering in perfusion-based bioreactors. <i>Biotechnology and Bioengineering</i> , 2016, 113, 226-236.	3.3	31
14	Decellularized Human Dermal Matrix as a Biological Scaffold for Cardiac Repair and Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 229.	4.1	31
15	Stem Cell Spheroids and Ex Vivo Niche Modeling: Rationalization and Scaling-Up. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 150-166.	2.4	30
16	Reduction of Cardiac Fibrosis by Interference With YAP-Dependent Transactivation. <i>Circulation Research</i> , 2022, 131, 239-257.	4.5	26
17	Characterization of the <sc>AXH</sc> domain of Ataxin-1 using enhanced sampling and functional mode analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 666-673.	2.6	21
18	Bioreactor Platform for Biomimetic Culture and in situ Monitoring of the Mechanical Response of in vitro Engineered Models of Cardiac Tissue. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 733.	4.1	20

#	ARTICLE	IF	CITATIONS
19	Image-Based Three-Dimensional Analysis to Characterize the Texture of Porous Scaffolds. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	19
20	Application of 3D Printing Technology for Design and Manufacturing of Customized Components for a Mechanical Stretching Bioreactor. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-9.	1.9	16
21	Compact and tunable stretch bioreactor advancing tissue engineering implementation. Application to engineered cardiac constructs. <i>Medical Engineering and Physics</i> , 2020, 84, 1-9.	1.7	15
22	Destabilizing the AXH Tetramer by Mutations: Mechanisms and Potential Antiaggregation Strategies. <i>Biophysical Journal</i> , 2018, 114, 323-330.	0.5	14
23	Sensitivity of human pluripotent stem cells to insulin precipitation induced by peristaltic pump-based medium circulation: considerations on process development. <i>Scientific Reports</i> , 2017, 7, 3950.	3.3	9
24	Influence of injectable microparticle size on cardiac progenitor cell response. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 241-251.	1.6	9
25	A treatment planning code for inverse planning and 3D optimization in hadrontherapy. <i>Computers in Biology and Medicine</i> , 2008, 38, 990-999.	7.0	8
26	IGF-1 loaded injectable microspheres for potential repair of the infarcted myocardium. <i>Journal of Biomaterials Applications</i> , 2021, 35, 762-775.	2.4	7
27	Modeling methodology for defining a priori the hydrodynamics of a dynamic suspension bioreactor. Application to human induced pluripotent stem cell culture. <i>Journal of Biomechanics</i> , 2019, 94, 99-106.	2.1	4
28	A low-cost scalable 3D-printed sample-holder for agitation-based decellularization of biological tissues. <i>Medical Engineering and Physics</i> , 2020, 85, 7-15.	1.7	4
29	A Survey of Quantitative Descriptors of Arterial Flows. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2014, , 1-24.	0.5	3
30	A Survey of Microchannel Geometries for Mixing of Species in Biomicrofluidics. , 2012, , 548-578.		2
31	Native human dermis versus human acellular dermal matrix: A comparison of biaxial mechanical properties. <i>Australasian Medical Journal</i> , 2018, 11, .	0.1	2
32	Bizonal cardiac engineered tissues with differential maturation features in a mid-throughput multimodal bioreactor. <i>IScience</i> , 2022, 25, 104297.	4.1	2
33	Prediction of Shear Induced Platelet Activation in Prosthetic Heart Valves by Integrating Fluid-Structure Interaction Approach and Lagrangian-Based Blood Damage Model. , 2009, , .		1
34	On the Use of In Vivo Measured Flow Rates as Boundary Conditions for Image-Based Hemodynamic Models of the Human Aorta. , 2011, , .		1
35	HELICAL FLOW STRUCTURE IN VESSELS: THE EFFECT OF BLOOD RHEOLOGY. <i>Journal of Biomechanics</i> , 2008, 41, S336.	2.1	0
36	A Numerical Multiscale Study of the Haemodynamics in an Image-Based Model of Human Carotid Artery Bifurcation. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Effects of Blood Rheology on Flow Topology and Blood-Vessel Interaction in Image-Based Carotid Bifurcation Numerical Model. , 2009, , .		0
38	Identification of Atheroprone Morphological Features in Wall Shear Stress Waveforms in Carotid Bifurcations: A CFD-Based Integrated Approach. , 2010, , .		0
39	Insights Into the Molecular Mechanisms of Actin Dynamics: A Multiscale Modeling Approach. , 2011, , .		0
40	Scale/Physics/Time Properties and Functions in Bioartificial Systems. Materials Science Forum, 0, 706-709, 121-126.	0.3	0
41	A Novel Perfusion Bioreactor for 3D Cell Culture in Microgravity Conditions. , 2013, , .		0
42	Cover Image, Volume 84, Issue 5. Proteins: Structure, Function and Bioinformatics, 2016, 84, C1-C1.	2.6	0
43	Development of an animal-free methodology for mechanical performance assessment of engineered skin substitutes. Biomedical Science and Engineering, 2020, 3, .	0.0	0
44	Versatile electrical stimulator for providing cardiac-like electrical impulses in vitro. Biomedical Science and Engineering, 2020, 3, .	0.0	0
45	PDMS Substrates with tunable stiffness for cardiac mechanobiology investigation: A nanoindentation study. Biomedical Science and Engineering, 2021, 4, .	0.0	0
46	On the Importance of Assumptions for Bulk Flow in Hemodynamic Models of the Carotid Bifurcation. , 2011, , .		0