

Diana Massai

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,097
citations

535685

17
h-index

488211

31
g-index

50
all docs

50
docs citations

50
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	Bizonal cardiac engineered tissues with differential maturation features in a mid-throughput multimodal bioreactor. <i>IScience</i> , 2022, 25, 104297.	1.9	2
2	Reduction of Cardiac Fibrosis by Interference With YAP-Dependent Transactivation. <i>Circulation Research</i> , 2022, 131, 239-257.	2.0	26
3	IGF-1 loaded injectable microspheres for potential repair of the infarcted myocardium. <i>Journal of Biomaterials Applications</i> , 2021, 35, 762-775.	1.2	7
4	PDMS Substrates with tunable stiffness for cardiac mechanobiology investigation: A nanoindentation study. <i>Biomedical Science and Engineering</i> , 2021, 4, .	0.0	0
5	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.	0.8	4
6	Compact and tunable stretch bioreactor advancing tissue engineering implementation. Application to engineered cardiac constructs. <i>Medical Engineering and Physics</i> , 2020, 84, 1-9.	0.8	15
7	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.	2.0	20
8	Development of an animal-free methodology for mechanical performance assessment of engineered skin substitutes. <i>Biomedical Science and Engineering</i> , 2020, 3, .	0.0	0
9	Decellularized Human Dermal Matrix as a Biological Scaffold for Cardiac Repair and Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 229.	2.0	31
10	Versatile electrical stimulator for providing cardiac-like electrical impulses in vitro. <i>Biomedical Science and Engineering</i> , 2020, 3, .	0.0	0
11	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.	0.9	4
12	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.	1.1	16
13	Automated Segmentation of Fluorescence Microscopy Images for 3D Cell Detection in human-derived Cardiospheres. <i>Scientific Reports</i> , 2019, 9, 6644.	1.6	44
14	Destabilizing the AXH Tetramer by Mutations: Mechanisms and Potential Antiaggregation Strategies. <i>Biophysical Journal</i> , 2018, 114, 323-330.	0.2	14
15	Influence of injectable microparticle size on cardiac progenitor cell response. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 241-251.	0.7	9
16	Native human dermis versus human acellular dermal matrix: A comparison of biaxial mechanical properties. <i>Australasian Medical Journal</i> , 2018, 11, .	0.1	2
17	Stem Cell Spheroids and Ex Vivo Niche Modeling: Rationalization and Scaling-Up. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 150-166.	1.1	30
18	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.	1.6	9

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19	Progress and challenges in large-scale expansion of human pluripotent stem cells. <i>Process Biochemistry</i> , 2017, 59, 244-254.	1.8	131
20	A Versatile Bioreactor for Dynamic Suspension Cell Culture. Application to the Culture of Cancer Cell Spheroids. <i>PLoS ONE</i> , 2016, 11, e0154610.	1.1	45
21	Cover Image, Volume 84, Issue 5. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, C1-C1.	1.5	0
22	Characterization of the <scp>AXH</scp> domain of Ataxinâ€1 using enhanced sampling and functional mode analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 666-673.	1.5	21
23	Three dimensional multiâ€cellular muscleâ€like tissue engineering in perfusionâ€based bioreactors. <i>Biotechnology and Bioengineering</i> , 2016, 113, 226-236.	1.7	31
24	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.	0.6	42
25	Image-Based Three-Dimensional Analysis to Characterize the Texture of Porous Scaffolds. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	19
26	A Survey of Quantitative Descriptors of Arterial Flows. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2014, , 1-24.	0.5	3
27	Bioreactors as Engineering Support to Treat Cardiac Muscle and Vascular Disease. <i>Journal of Healthcare Engineering</i> , 2013, 4, 329-370.	1.1	38
28	A Survey of Methods for the Evaluation of Tissue Engineering Scaffold Permeability. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2027-2041.	1.3	74
29	A Novel Perfusion Bioreactor for 3D Cell Culture in Microgravity Conditions. , 2013, , .		0
30	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.	1.2	31
31	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.	1.3	126
32	A Survey of Microchannel Geometries for Mixing of Species in Biomicrofluidics. , 2012, , 548-578.		2
33	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.	0.9	93
34	Insights Into the Molecular Mechanisms of Actin Dynamics: A Multiscale Modeling Approach. , 2011, , .		0
35	On the Importance of Assumptions for Bulk Flow in Hemodynamic Models of the Carotid Bifurcation. , 2011, , .		0
36	On the Use of In Vivo Measured Flow Rates as Boundary Conditions for Image-Based Hemodynamic Models of the Human Aorta. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
37	Identification of Atheroprone Morphological Features in Wall Shear Stress Waveforms in Carotid Bifurcations: A CFD-Based Integrated Approach. , 2010, , .		0
38	Quantitative Analysis of Bulk Flow in Image-Based Hemodynamic Models of the Carotid Bifurcation: The Influence of Outflow Conditions as Test Case. Annals of Biomedical Engineering, 2010, 38, 3688-3705.	1.3	50
39	Outflow Conditions for Image-Based Hemodynamic Models of the Carotid Bifurcation: Implications for Indicators of Abnormal Flow. Journal of Biomechanical Engineering, 2010, 132, 091005.	0.6	80
40	A Numerical Multiscale Study of the Haemodynamics in an Image-Based Model of Human Carotid Artery Bifurcation. , 2009, , .		0
41	Effects of Blood Rheology on Flow Topology and Blood-Vessel Interaction in Image-Based Carotid Bifurcation Numerical Model. , 2009, , .		0
42	Blood damage safety of prosthetic heart valves. Shear-induced platelet activation and local flow dynamics: A fluidâ€“structure interaction approach. Journal of Biomechanics, 2009, 42, 1952-1960.	0.9	66
43	Prediction of Shear Induced Platelet Activation in Prosthetic Heart Valves by Integrating Fluidâ€“Structure Interaction Approach and Lagrangian-Based Blood Damage Model. , 2009, , .		1
44	A treatment planning code for inverse planning and 3D optimization in hadrontherapy. Computers in Biology and Medicine, 2008, 38, 990-999.	3.9	8
45	HELICAL FLOW STRUCTURE IN VESSELS: THE EFFECT OF BLOOD RHEOLOGY. Journal of Biomechanics, 2008, 41, S336.	0.9	0
46	Scale/Physics/Time Properties and Functions in Bioartificial Systems. Materials Science Forum, 0, 706-709, 121-126.	0.3	0