

Sara Mantero

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

3,594
citations

430442

18
h-index

344852

36
g-index

37
all docs

37
docs citations

37
times ranked

4645
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoangioblast stem cells ameliorate muscle function in dystrophic dogs. <i>Nature</i> , 2006, 444, 574-579.	13.7	692
2	Electrospun degradable polyesterurethane membranes: potential scaffolds for skeletal muscle tissue engineering. <i>Biomaterials</i> , 2005, 26, 4606-4615.	5.7	384
3	Both epithelial cells and mesenchymal stem cell-derived chondrocytes contribute to the survival of tissue-engineered airway transplants in pigs. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010, 139, 437-443.	0.4	139
4	Structural and morphologic evaluation of a novel detergent-enzymatic tissue-engineered tracheal tubular matrix. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009, 138, 586-593.	0.4	114
5	Enhancing the biological performance of synthetic polymeric materials by decoration with engineered, decellularized extracellular matrix. <i>Biomaterials</i> , 2012, 33, 5085-5093.	5.7	112
6	A double-chamber rotating bioreactor for the development of tissue-engineered hollow organs: From concept to clinical trial. <i>Biomaterials</i> , 2009, 30, 5260-5269.	5.7	100
7	Skeletal muscle tissue engineering: strategies for volumetric constructs. <i>Frontiers in Physiology</i> , 2014, 5, 362.	1.3	88
8	Multi-stage bioengineering of a layered oesophagus with in vitro expanded muscle and epithelial adult progenitors. <i>Nature Communications</i> , 2018, 9, 4286.	5.8	74
9	A lumped parameter model to evaluate the fluid dynamics of different coronary bypasses. <i>Medical Engineering and Physics</i> , 1996, 18, 477-484.	0.8	63
10	Vascular Smooth Muscle Cells on Hyaluronic Acid: Culture and Mechanical Characterization of an Engineered Vascular Construct. <i>Tissue Engineering</i> , 2004, 10, 699-710.	4.9	59
11	Detergent-Enzymatic Decellularization of Swine Blood Vessels: Insight on Mechanical Properties for Vascular Tissue Engineering. <i>BioMed Research International</i> , 2013, 2013, 1-8.	0.9	59
12	Lumbar Dura Mater Biomechanics. <i>Anesthesia and Analgesia</i> , 1999, 88, 1317-1321.	1.1	46
13	Cells and stimuli in small-caliber blood vessel tissue engineering. <i>Regenerative Medicine</i> , 2015, 10, 505-527.	0.8	29
14	The effect of sodium ascorbate on the mechanical properties of hyaluronan-based vascular constructs. <i>Biomaterials</i> , 2006, 27, 623-630.	5.7	28
15	Rotating versus perfusion bioreactor for the culture of engineered vascular constructs based on hyaluronic acid. <i>Biotechnology and Bioengineering</i> , 2008, 100, 988-997.	1.7	26
16	Arterial Decellularized Scaffolds Produced Using an Innovative Automatic System. <i>Cells Tissues Organs</i> , 2014, 200, 363-373.	1.3	26
17	A Novel Device for the Automatic Decellularization of Biological Tissues. <i>International Journal of Artificial Organs</i> , 2012, 35, 191-198.	0.7	23
18	Albumin adsorption onto pyrolytic carbon: A molecular mechanics approach. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 329-339.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Insight on the endothelialization of small silk-based tissue-engineered vascular grafts. <i>International Journal of Artificial Organs</i> , 2020, 43, 631-644.	0.7	16
20	PhotoMEA: An opto-electronic biosensor for monitoring in vitro neuronal network activity. <i>BioSystems</i> , 2007, 87, 150-155.	0.9	15
21	A Perfusion Bioreactor for Longitudinal Monitoring of Bioengineered Liver Constructs. <i>Nanomaterials</i> , 2021, 11, 275.	1.9	12
22	Tissue Engineering toward Organ Replacement: A Promising Approach in Airway Transplant. <i>International Journal of Artificial Organs</i> , 2009, 32, 763-768.	0.7	11
23	Trends in biomedical engineering: focus on Regenerative Medicine. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011, 9, 73-86.	0.4	11
24	Polyurethane-coated, self-expandable biliary stent: An experimental study. <i>Academic Radiology</i> , 1995, 2, 1078-1081.	1.3	10
25	In vivo study of polyurethane-coated gianturco-rosch biliary Z-stents. <i>CardioVascular and Interventional Radiology</i> , 1999, 22, 510-514.	0.9	9
26	Estimation of the physiological mechanical conditioning in vascular tissue engineering by a predictive fluid-structure interaction approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1077-1088.	0.9	9
27	Shear-resistant hydrogels to control permeability of porous tubular scaffolds in vascular tissue engineering. <i>Materials Science and Engineering C</i> , 2019, 105, 110035.	3.8	8
28	Hyperthermia in the Treatment of Cholangiocarcinoma: Development and Testing of an Endobiliary Microwave Device. <i>CardioVascular and Interventional Radiology</i> , 2003, 26, 379-385.	0.9	7
29	Prefabricated tracheal prosthesis with partial biodegradable materials: a surgical and tissue engineering evaluation in vivo. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 579-594.	1.9	6
30	Correction: Corrigendum: Mesoangioblast stem cells ameliorate muscle function in dystrophic dogs. <i>Nature</i> , 2013, 494, 506-506.	13.7	6
31	Towards an In Vitro Retinal Model to Study and Develop New Therapies for Age-Related Macular Degeneration. <i>Bioengineering</i> , 2021, 8, 18.	1.6	6
32	Alternating Air-Medium Exposure in Rotating Bioreactors Optimizes Cell Metabolism in 3D Novel Tubular Scaffold Polyurethane Foams. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, 122-132.	0.7	4
33	The Evolution of Fabrication Methods in Human Retina Regeneration. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4102.	1.3	3
34	Erratum to "Detergent-Enzymatic Decellularization of Swine Blood Vessels: Insight on Mechanical Properties for Vascular Tissue Engineering" <i>BioMed Research International</i> , 2014, 2014, 1-2.	0.9	1
35	Bioreactors as physiologicallike in vitro models. <i>Biomedical Science and Engineering</i> , 2020, 3, .	0.0	0