

Dan Simionescu

List of Publications by Year in descending order

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34
papers

1,223
citations

471509

17
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel porous aortic elastin and collagen scaffolds for tissue engineering. <i>Biomaterials</i> , 2004, 25, 5227-5237.	11.4	227
2	Elastin stabilization in cardiovascular implants: improved resistance to enzymatic degradation by treatment with tannic acid. <i>Biomaterials</i> , 2004, 25, 3293-3302.	11.4	98
3	Prevention of calcification in bioprosthetic heart valves: challenges and perspectives. <i>Expert Opinion on Biological Therapy</i> , 2004, 4, 1971-1985.	3.1	91
4	Tannic acid treatment enhances biostability and reduces calcification of glutaraldehyde fixed aortic wall. <i>Biomaterials</i> , 2005, 26, 1237-1245.	11.4	90
5	Small Noncytotoxic Carbon Nano-Onions: First Covalent Functionalization with Biomolecules. <i>Chemistry - A European Journal</i> , 2010, 16, 4870-4880.	3.3	73
6	Novel tissue-derived biomimetic scaffold for regenerating the human nucleus pulposus. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 422-435.	4.0	66
7	Design and Testing of a Pulsatile Conditioning System for Dynamic Endothelialization of Polyphenol-Stabilized Tissue Engineered Heart Valves. <i>Cardiovascular Engineering and Technology</i> , 2010, 1, 138-153.	1.6	60
8	The performance of cross-linked acellular arterial scaffolds as vascular grafts; pre-clinical testing in direct and isolation loop circulatory models. <i>Biomaterials</i> , 2014, 35, 6311-6322.	11.4	60
9	Involvement of matrix metalloproteinases and tenascin-C in elastin calcification. <i>Cardiovascular Pathology</i> , 2004, 13, 146-155.	1.6	55
10	Differentiated distribution of the cell surface charge on the alveolar-capillary unit. <i>Microvascular Research</i> , 1983, 25, 85-100.	2.5	51
11	Lysine-enhanced glutaraldehyde crosslinking of collagenous biomaterials. <i>Journal of Biomedical Materials Research Part B</i> , 1991, 25, 1495-1505.	3.1	46
12	Mapping of glutaraldehyde-treated bovine pericardium and tissue selection for bioprosthetic heart valves. <i>Journal of Biomedical Materials Research Part B</i> , 1993, 27, 697-704.	3.1	42
13	Manipulation of cellular spheroid composition and the effects on vascular tissue fusion. <i>Acta Biomaterialia</i> , 2015, 13, 188-198.	8.3	40
14	Form Follows Function: Advances in Trilayered Structure Replication for Aortic Heart Valve Tissue Engineering. <i>Journal of Healthcare Engineering</i> , 2012, 3, 179-202.	1.9	35
15	Detection of remnant proteolytic activities in unimplanted glutaraldehyde-treated bovine pericardium and explanted cardiac bioprostheses. <i>Journal of Biomedical Materials Research Part B</i> , 1993, 27, 821-829.	3.1	25
16	New evolution in mitral physiology and surgery: Mitral stentless pericardial valve. <i>Annals of Thoracic Surgery</i> , 1995, 60, S433-S438.	1.3	22
17	Development and initial characterization of a chemically stabilized elastin-glycosaminoglycan-collagen composite shape-memory hydrogel for nucleus pulposus regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, n/a-n/a.	4.0	17
18	Accelerated Iron Oxide Nanoparticle Degradation Mediated by Polyester Encapsulation within Cellular Spheroids. <i>Advanced Functional Materials</i> , 2014, 24, 800-807.	14.9	17

#	ARTICLE	IF	CITATIONS
19	Iron Oxide Nanoparticles Stimulates Extra-Cellular Matrix Production in Cellular Spheroids. <i>Bioengineering</i> , 2017, 4, 4.	3.5	16
20	Bioreactor conditioning of valve scaffolds seeded internally with adult stem cells. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 507-515.	3.7	14
21	Tannic acid mimicking dendrimers as small intestine submucosa stabilizing nanomordants. <i>Biomaterials</i> , 2006, 27, 745-751.	11.4	12
22	Processing cellular spheroids for histological examination. <i>Journal of Histotechnology</i> , 2014, 37, 138-142.	0.5	10
23	Chemical stabilization of the extracellular matrix attenuates growth of experimentally induced abdominal aorta aneurysms in a large animal model. <i>JVS Vascular Science</i> , 2020, 1, 69-80.	1.1	9
24	Partial characterization of low molecular weight proteoglycan isolated from bovine parietal pericardium. <i>Biochemical and Biophysical Research Communications</i> , 1988, 151, 480-486.	2.1	8
25	Aortic valve disease in diabetes: Molecular mechanisms and novel therapies. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 9483-9495.	3.6	8
26	Longitudinal Stretching for Maturation of Vascular Tissues Using Magnetic Forces. <i>Bioengineering</i> , 2016, 3, 29.	3.5	7
27	Lectin and antibody-based histochemical techniques for cardiovascular tissue engineering. <i>Journal of Histotechnology</i> , 2011, 34, 20-28.	0.5	5
28	Pulmonary heart valve replacement using stabilized acellular xenogeneic scaffolds; effects of seeding with autologous stem cells. <i>Romanian Journal of Laboratory Medicine</i> , 2015, 23, 415-430.	0.2	5
29	Preclinical Testing of Living Tissue-Engineered Heart Valves for Pediatric Patients, Challenges and Opportunities. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 707892.	2.4	5
30	In Vivo Testing of Xenogeneic Acellular Aortic Valves Seeded with Stem Cells. <i>Romanian Journal of Laboratory Medicine</i> , 2016, 24, 343-346.	0.2	5
31	Minimally Invasive Surgical Protocol for Adipose Derived Stem Cells Collection and Isolation - Ovine Model. <i>Revista De Chimie (discontinued)</i> , 2019, 70, 1826-1828.	0.4	2
32	Xenogenic Cues for Human Mesenchymal Stem Cell Differentiation towards a Nucleus Pulposus Cell-like Phenotype. <i>Spine Journal</i> , 2010, 10, S114-S115.	1.3	1
33	A Standardized Dissection Protocol to Generate Aortic Valvular Scaffolds from Porcine Hearts. <i>Acta Marisiensis - Seria Medica</i> , 2017, 63, 133-135.	0.3	1
34	Reconstitution of the Ventricular Endocardium Within Acellular Hearts. <i>Regenerative Engineering and Translational Medicine</i> , 2020, 6, 90-100.	2.9	0