Dan Simionescu

List of Publications by Year
in descending order

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	Preclinical Testing of Living Tissue-Engineered Heart Valves for Pediatric Patients, Challenges and Opportunities. Frontiers in Cardiovascular Medicine, 2021, 8, 707892.	2.4	5
2	Aortic valve disease in diabetes: Molecular mechanisms and novel therapies. Journal of Cellular and Molecular Medicine, 2021, 25, 9483-9495.	3.6	8
3	Reconstitution of the Ventricular Endocardium Within Acellular Hearts. Regenerative Engineering and Translational Medicine, 2020, 6, 90-100.	2.9	0
4	Chemical stabilization of the extracellular matrix attenuates growth of experimentally induced abdominal aorta aneurysms in a large animal model. JVS Vascular Science, 2020, 1, 69-80.	1.1	9
5	Minimally Invasive Surgical Protocol for Adipose Derived Stem Cells Collection and Isolation - Ovine Model. Revista De Chimie (discontinued), 2019, 70, 1826-1828.	0.4	2
6	A Standardized Dissection Protocol to Generate Aortic Valvular Scaffolds from Porcine Hearts. Acta Marisiensis - Seria Medica, 2017, 63, 133-135.	0.3	1
7	Iron Oxide Nanoparticles Stimulates Extra-Cellular Matrix Production in Cellular Spheroids. Bioengineering, 2017, 4, 4.	3.5	16
8	Longitudinal Stretching for Maturation of Vascular Tissues Using Magnetic Forces. Bioengineering, 2016, 3, 29.	3.5	7
9	Bioreactor conditioning of valve scaffolds seeded internally with adult stem cells. Tissue Engineering and Regenerative Medicine, 2016, 13, 507-515.	3.7	14
10	In Vivo Testing of Xenogeneic Acellular Aortic Valves Seeded with Stem Cells. Romanian Journal of Laboratory Medicine, 2016, 24, 343-346.	0.2	5
11	Pulmonary heart valve replacement using stabilized acellular xenogeneic scaffolds; effects of seeding with autologous stem cells. Romanian Journal of Laboratory Medicine, 2015, 23, 415-430.	0.2	5
12	Manipulation of cellular spheroid composition and the effects on vascular tissue fusion. Acta Biomaterialia, 2015, 13, 188-198.	8.3	40
13	Development and initial characterization of a chemically stabilized elastin-glycosaminoglycan-collagen composite shape-memory hydrogel for nucleus pulposus regeneration. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	4.0	17
14	Processing cellular spheroids for histological examination. Journal of Histotechnology, 2014, 37, 138-142.	0.5	10
15	Accelerated Iron Oxide Nanoparticle Degradation Mediated by Polyester Encapsulation within Cellular Spheroids. Advanced Functional Materials, 2014, 24, 800-807.	14.9	17
16	The performance of cross-linked acellular arterial scaffolds as vascular grafts; pre-clinical testing in direct and isolation loop circulatory models. Biomaterials, 2014, 35, 6311-6322.	11.4	60
17	Form Follows Function: Advances in Trilayered Structure Replication for Aortic Heart Valve Tissue Engineering. Journal of Healthcare Engineering, 2012, 3, 179-202.	1.9	35
18	Novel tissueâ€derived biomimetic scaffold for regenerating the human nucleus pulposus. Journal of Biomedical Materials Research - Part A, 2011, 96A, 422-435.	4.0	66

#	Article	IF	Citations
19	Lectin and antibody-based histochemical techniques for cardiovascular tissue engineering. Journal of Histotechnology, 2011, 34, 20-28.	0.5	5
20	Design and Testing of a Pulsatile Conditioning System for Dynamic Endothelialization of Polyphenol-Stabilized Tissue Engineered Heart Valves. Cardiovascular Engineering and Technology, 2010, 1, 138-153.	1.6	60
21	Small Noncytotoxic Carbon Nanoâ€Onions: First Covalent Functionalization with Biomolecules. Chemistry - A European Journal, 2010, 16, 4870-4880.	3.3	73
22	Xenogenic Cues for Human Mesenchymal Stem Cell Differentiation towards a Nucleus Pulposus Cell-like Phenotype. Spine Journal, 2010, 10, S114-S115.	1.3	1
23	Tannic acid mimicking dendrimers as small intestine submucosa stabilizing nanomordants. Biomaterials, 2006, 27, 745-751.	11.4	12
24	Tannic acid treatment enhances biostability and reduces calcification of glutaraldehyde fixed aortic wall. Biomaterials, 2005, 26, 1237-1245.	11.4	90
25	Elastin stabilization in cardiovascular implants: improved resistance to enzymatic degradation by treatment with tannic acid. Biomaterials, 2004, 25, 3293-3302.	11.4	98
26	Novel porous aortic elastin and collagen scaffolds for tissue engineering. Biomaterials, 2004, 25, 5227-5237.	11.4	227
27	Prevention of calcification in bioprosthetic heart valves: challenges and perspectives. Expert Opinion on Biological Therapy, 2004, 4, 1971-1985.	3.1	91
28	Involvement of matrix metalloproteinases and tenascin-C in elastin calcification. Cardiovascular Pathology, 2004, 13, 146-155.	1.6	55
29	New evolution in mitral physiology and surgery: Mitral stentless pericardial valve. Annals of Thoracic Surgery, 1995, 60, S433-S438.	1.3	22
30	Mapping of glutaraldehyde-treated bovine pericardium and tissue selection for bioprosthetic heart valves. Journal of Biomedical Materials Research Part B, 1993, 27, 697-704.	3.1	42
31	Detection of remnant proteolytic activities in unimplanted glutaraldehyde-treated bovine pericardium and explanted cardiac bioprostheses. Journal of Biomedical Materials Research Part B, 1993, 27, 821-829.	3.1	25
32	Lysine-enhanced glutaraldehyde crosslinking of collagenous biomaterials. Journal of Biomedical Materials Research Part B, 1991, 25, 1495-1505.	3.1	46
33	Partial characterization of low molecular weight proteoglycan isolated from bovine parietal pericardium. Biochemical and Biophysical Research Communications, 1988, 151, 480-486.	2.1	8
34	Differentiated distribution of the cell surface charge on the alveolar-capillary unit. Microvascular Research, 1983, 25, 85-100.	2.5	51