

Roman MatÄ›jka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2201255/publications.pdf>

Version: 2024-02-01

26
papers

341
citations

1040056

9
h-index

839539

18
g-index

26
all docs

26
docs citations

26
times ranked

503
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of Nanocellulose/Nanocarbon Composites: Focus on Biotechnology and Medicine. <i>Nanomaterials</i> , 2020, 10, 196.	4.1	117
2	Treatments for enhancing the biocompatibility of titanium implants. <i>Biomedical Papers of the Medical Faculty of the University Palacký&#x0301;, Olomouc, Czechoslovakia</i> , 2020, 164, 23-33.	0.6	37
3	Collagen Bioinks for Bioprinting: A Systematic Review of Hydrogel Properties, Bioprinting Parameters, Protocols, and Bioprinted Structure Characteristics. <i>Biomedicines</i> , 2021, 9, 1137.	3.2	30
4	Human osteoblast-like SAOS-2 cells on submicron-scale fibers coated with nanocrystalline diamond films. <i>Materials Science and Engineering C</i> , 2021, 121, 111792.	7.3	21
5	Different diameters of titanium dioxide nanotubes modulate Saos-2 osteoblast-like cell adhesion and osteogenic differentiation and nanomechanical properties of the surface. <i>RSC Advances</i> , 2019, 9, 11341-11355.	3.6	17
6	Cellular Responses Modulated by FGF-2 Adsorbed on Albumin/Heparin Layer-by-Layer Assemblies. <i>PLoS ONE</i> , 2015, 10, e0125484.	2.5	15
7	Effect of crosslinking chemistry of albumin/heparin multilayers on FGF-2 adsorption and endothelial cell behavior. <i>Applied Surface Science</i> , 2017, 411, 240-250.	6.1	14
8	Accelerated in vitro recellularization of decellularized porcine pericardium for cardiovascular grafts. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 025024.	3.3	11
9	pH Modification of High-Concentrated Collagen Bioinks as a Factor Affecting Cell Viability, Mechanical Properties, and Printability. <i>Gels</i> , 2021, 7, 252.	4.5	11
10	The Gene Expression of Human Endothelial Cells Is Modulated by Subendothelial Extracellular Matrix Proteins: Short-Term Response to Laminar Shear Stress. <i>Tissue Engineering - Part A</i> , 2014, 20, 2253-2264.	3.1	10
11	The Effect of Various Surface Treatments of Ti6Al4V on the Growth and Osteogenic Differentiation of Adipose Tissue-Derived Stem Cells. <i>Coatings</i> , 2020, 10, 762.	2.6	8
12	Bioreactor Processed Stromal Cell Seeding and Cultivation on Decellularized Pericardium Patches for Cardiovascular Use. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5473.	2.5	7
13	Growth Factors VEGF-A165 and FGF-2 as Multifunctional Biomolecules Governing Cell Adhesion and Proliferation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1843.	4.1	7
14	Uniaxial Tensile Testing Device for Measuring Mechanical Properties of Biological Tissue with Stress-Relaxation Test under a Confocal Microscope. <i>Manufacturing Technology</i> , 2018, 18, 866-872.	1.4	7
15	Vascular Remodeling of Clinically Used Patches and Decellularized Pericardial Matrices Recellularized with Autologous or Allogeneic Cells in a Porcine Carotid Artery Model. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3310.	4.1	7
16	<i>In vitro</i> evaluation of a novel nanostructured Ti-36Nb-6Ta alloy for orthopedic applications. <i>Nanomedicine</i> , 2020, 15, 1843-1859.	3.3	6
17	Retrograde Oxygen Persufflation of Kidney â€“ Experiment on an Animal. <i>In Vivo</i> , 2016, 30, 801-806.	1.3	5
18	Human decellularized and crosslinked pericardium coated with bioactive molecular assemblies. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 015008.	3.3	4

#	ARTICLE	IF	CITATIONS
19	Perfusion of a Kidney Graft From a Donor After Cardiac Death Based on Immediately Started Pulsatile Machine Perfusion – An Experimental Study on a Small Animal. Transplantation Proceedings, 2018, 50, 1544-1548.	0.6	3
20	Nanocrystalline diamond-based impedance sensors for real-time monitoring of adipose tissue-derived stem cells. Colloids and Surfaces B: Biointerfaces, 2019, 177, 130-136.	5.0	2
21	Real-Time Monitoring of Stem Cells by Diamond-Based Impedance Sensors – Proceedings (mdpi), 2017, 1, 515.	0.2	1
22	Real-Time Monitoring of Stem Cells by Diamond-Based Impedance Sensors. Proceedings (mdpi), 2017, 1, 515.	0.2	1
23	Automated dynamic bioreactor for 2D endothelial structures. , 2013, , .		0
24	11th International Congress on Coronary Artery Disease (ICCAD), Florence, Italy November 29 - December 2, 2015: Abstracts. Cardiology, 2015, 132, 1-312.	1.4	0
25	The Effect of Different Thawing Rates on Cryopreserved Human Iliac Arteries Allografts™s Structural Damage and Mechanical Properties. BioMed Research International, 2020, 2020, 1-7.	1.9	0
26	Perfusion of a Kidney Graft from a Donor After Cardiac Death Based on Immediately Started Machine Perfusion: An Experimental Study on a Big Animal. Transplantation Proceedings, 2021, 53, 2082-2090.	0.6	0