

Roman MatÄ›jka

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Accelerated in vitro recellularization of decellularized porcine pericardium for cardiovascular grafts. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 025024.	3.3	11
5	Perfusion of a Kidney Graft from a Donor After Cardiac Death Based on Immediately Started Machine Perfusion: An Experimental Study on a Big Animal. <i>Transplantation Proceedings</i> , 2021, 53, 2082-2090.	0.6	0
6	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
7	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
8	<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
9	The Effect of Different Thawing Rates on Cryopreserved Human Iliac Arteries Allografts™s Structural Damage and Mechanical Properties. <i>BioMed Research International</i> , 2020, 2020, 1-7.	1.9	0
10	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
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	Applications of Nanocellulose/Nanocarbon Composites: Focus on Biotechnology and Medicine. <i>Nanomaterials</i> , 2020, 10, 196.	4.1	117
13	Human decellularized and crosslinked pericardium coated with bioactive molecular assemblies. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 015008.	3.3	4
14	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
15	Nanocrystalline diamond-based impedance sensors for real-time monitoring of adipose tissue-derived stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 130-136.	5.0	2
16	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
17	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. <i>Transplantation Proceedings</i> , 2018, 50, 1544-1548.	0.6	3
18	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

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19	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
20	Real-Time Monitoring of Stem Cells by Diamond-Based Impedance Sensors â€. <i>Proceedings (mdpi)</i> , 2017, 1, 515.	0.2	1
21	Real-Time Monitoring of Stem Cells by Diamond-Based Impedance Sensors. <i>Proceedings (mdpi)</i> , 2017, 1, 515.	0.2	1
22	Retrograde Oxygen Persufflation of Kidney â€“ Experiment on an Animal. <i>In Vivo</i> , 2016, 30, 801-806.	1.3	5
23	11th International Congress on Coronary Artery Disease (ICCAD), Florence, Italy November 29 - December 2, 2015: Abstracts. <i>Cardiology</i> , 2015, 132, 1-312.	1.4	0
24	Cellular Responses Modulated by FGF-2 Adsorbed on Albumin/Heparin Layer-by-Layer Assemblies. <i>PLoS ONE</i> , 2015, 10, e0125484.	2.5	15
25	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
26	Automated dynamic bioreactor for 2D endothelial structures. , 2013, , .		0