Alexander Y Petrenko

List of Publications by Year
in descending order

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59	1,458	430442	329751
papers	citations	18 h-index	37 g-index

63	63	63	1807
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generation of bone grafts using cryopreserved mesenchymal stromal cells and macroporous collagenâ€nanohydroxyapatite cryogels. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 489-499.	1.6	7
2	Coaxial Alginate Hydrogels: From Self-Assembled 3D Cellular Constructs to Long-Term Storage. International Journal of Molecular Sciences, 2021, 22, 3096.	1.8	11
3	Effect of â€˜in airâ€™ freezing on post-thaw recovery of Callithrix jacchus mesenchymal stromal cells and properties of 3D collagen-hydroxyapatite scaffolds. Cryobiology, 2020, 92, 215-230.	0.3	13
4	Dimethyl sulfoxide: a central player since the dawn of cryobiology, is efficacy balanced by toxicity?. Regenerative Medicine, 2020, 15, 1463-1491.	0.8	118
5	Chitinous Scaffolds from Marine Sponges for Tissue Engineering. Springer Series in Biomaterials Science and Engineering, 2019, , 285-307.	0.7	2
6	Human organs come out of the deep cold. Nature Biotechnology, 2019, 37, 1127-1128.	9.4	9
7	Toward a Molecular Reorganization Energy-Based Analysis of Third-Order Nonlinear Optical Properties of Polymethine Dyes and J-Aggregates. Journal of Physical Chemistry A, 2019, 123, 9321-9327.	1.1	6
8	Clinically Relevant Solution for the Hypothermic Storage and Transportation of Human Multipotent Mesenchymal Stromal Cells. Stem Cells International, 2019, 2019, 1-11.	1.2	24
9	Organ Preservation into the 2020s: The Era of Dynamic Intervention. Transfusion Medicine and Hemotherapy, 2019, 46, 151-172.	0.7	63
10	Novel Cryopreservation Approach Providing Off-the-Shelf Availability of Human Multipotent Mesenchymal Stromal Cells for Clinical Applications. Stem Cells International, 2019, 2019, 1-11.	1.2	16
11	Multiple Injections of Cryopreserved Fetal Liver Cells to Ageing Rats Prevent Age-Related Antioxidant System Changes and Increase Lifespan. Problems of Cryobiology and Cryomedicine, 2019, 29, 221-236.	0.3	0
12	Cryostructuring of polymer systems. 47. Preparation of wide porous gelatin-based cryostructurates in sterilizing organic media and assessment of the suitability of thus formed matrices as spongy scaffolds for 3D cell culturing. E-Polymers, 2018, 18, 175-186.	1.3	21
13	Blood Plasma-Based Macroporous Scaffolds as Biocompatible Coatings to Restore Full-Thickness Excision Wounds. Problems of Cryobiology and Cryomedicine, 2018, 28, 044-048.	0.3	2
14	Perfusion bioreactor-based cryopreservation of 3D human mesenchymal stromal cell tissue grafts. Cryobiology, 2017, 76, 150-153.	0.3	24
15	Novel chitin scaffolds derived from marine sponge Ianthella basta for tissue engineering approaches based on human mesenchymal stromal cells: Biocompatibility and cryopreservation. International Journal of Biological Macromolecules, 2017, 104, 1955-1965.	3.6	75
16	3D chitinous scaffolds derived from cultivated marine demosponge Aplysina aerophoba for tissue engineering approaches based on human mesenchymal stromal cells. International Journal of Biological Macromolecules, 2017, 104, 1966-1974.	3.6	59
17	DMSO-free cryopreservation of adipose-derived mesenchymal stromal cells: expansion medium affects post-thaw survival. Cytotechnology, 2017, 69, 265-276.	0.7	26
18	Distal [FeS]-Cluster Coordination in [NiFe]-Hydrogenase Facilitates Intermolecular Electron Transfer. International Journal of Molecular Sciences, 2017, 18, 100.	1.8	10

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19	Morphological Features of Thyroid Gland in Rats with Experimental Autoimmune Thyroiditis After Administering Cryopreserved Allogeneic Fetal Cells. Problems of Cryobiology and Cryomedicine, 2017, 27, 356-366.	0.3	2
20	Cryosensitivity of Mesenchymal Stromal Cells Cryopreserved Within Marine Sponge Ianthella basta Skeleton-Based Carriers. Problems of Cryobiology and Cryomedicine, 2016, 26, 13-23.	0.3	7
21	Effect of Encapsulation into Alginate Microspheres on Viability of Mesenchymal Stromal Cells after Exposure with Penetrating Cryoprotectants. Problems of Cryobiology and Cryomedicine, 2016, 26, 213-220.	0.3	0
22	Bioregulators of stem and progenitor cells in preservation solution reduce cold ischemiaâ€•reperfusion injury of isolated rat livers. BioFactors, 2016, 42, 287-295.	2.6	2
23	Molecular Reorganization Energy as a Key Determinant of J-Band Formation in J-Aggregates of Polymethine Dyes. Journal of Physical Chemistry A, 2015, 119, 6773-6780.	1.1	17
24	Rates and Routes of Electron Transfer of [NiFe]-Hydrogenase in an Enzymatic Fuel Cell. Journal of Physical Chemistry B, 2015, 119, 13870-13882.	1.2	11
25	TRANSPLANTATION OF CRYOPRESERVED FETAL LIVER CELLS SEEDED INTO MACROPOROUS ALGINATE-GELATIN SCAFFOLDS IN RATS WITH LIVER FAILURE. Vestnik Transplantologii I Iskusstvennykh Organov, 2015, 17, 50-57.	0.1	3
26	Adhesion and proliferation of adipose derived mesenchymal stromal cells on chitosan scaffolds with different degree of deacetylation. Biopolymers and Cell, 2014, 30, 135-140.	0.1	2
27	Towards ready-to-use 3-D scaffolds for regenerative medicine: adhesion-based cryopreservation of human mesenchymal stem cells attached and spread within alginateâ€“gelatin cryogel scaffolds. Journal of Materials Science: Materials in Medicine, 2014, 25, 857-871.	1.7	63
28	Skin stem cells as an object for cryopreservation. 1. Skin stem reserve. Problems of Cryobiology and Cryomedicine, 2014, 24, 3-15.	0.3	3
29	Liver structure in rats with experimental hepatic failure following implantation of macroporous carrier seeded with cryopreserved fetal liver cells. Problems of Cryobiology and Cryomedicine, 2014, 24, 292-301.	0.3	1
30	Isolation and identification of chitin in three-dimensional skeleton of Aplysina fistularis marine sponge. International Journal of Biological Macromolecules, 2013, 62, 94-100.	3.6	91
31	Cryopreservation of alginate encapsulated mesenchymal stromal cells. Cryobiology, 2013, 66, 215-222.	0.3	62
32	Phenotypical properties and ability to multilineage differentiation of adipose tissue stromal cells during subculturing. Cytology and Genetics, 2012, 46, 36-40.	0.2	3
33	Mitochondria-targeted plastoquinone derivative SkQ1 decreases ischemia-reperfusion injury during liver hypothermic storage for transplantation. Biochemistry (Moscow), 2011, 76, 1022-1029.	0.7	9
34	Capacity of Bioregulators of Stem and Progenitor Cells to Strongly Affect Liver Redox-Dependent Processes. Rejuvenation Research, 2011, 14, 661-667.	0.9	3
35	Coupling of gelatin to inner surfaces of pore walls in spongy alginate-based scaffolds facilitates the adhesion, growth and differentiation of human bone marrow mesenchymal stromal cells. Journal of Materials Science: Materials in Medicine, 2011, 22, 1529-1540.	1.7	61
36	Comparison of the methods for seeding human bone marrow mesenchymal stem cells to macroporous alginate cryogel carriers. Bulletin of Experimental Biology and Medicine, 2011, 150, 543-546.	0.3	25

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37	The Use of Catalytic Carbon Deposits as 3D Carriers for Human Bone Marrow Stromal Cells. Bulletin of Experimental Biology and Medicine, 2011, 151, 539-542.	0.3	1
38	Organ Preservation: Current Concepts and New Strategies for the Next Decade. Transfusion Medicine and Hemotherapy, 2011, 38, 125-142.	0.7	251
39	Reversible mitochondrial uncoupling in the cold phase during liver preservation/reperfusion reduces oxidative injury in the rat model. Cryobiology, 2010, 60, 293-300.	0.3	15
40	Growth and adipogenic differentiation of mesenchymal stromal bone marrow cells during culturing in 3D macroporous agarose cryogel sponges. Bulletin of Experimental Biology and Medicine, 2008, 146, 129-132.	0.3	10
41	Osteogenic and adipogenic capacity of fibroblast-like progenitor cells derived from human fetal liver. Cell and Tissue Biology, 2008, 2, 140-145.	0.2	1
42	Functional hepatic recovery after xenotransplantation of cryopreserved fetal liver cells or soluble cellâ€factor administration in a cirrhotic rat model: Are viable cells necessary?. Journal of Gastroenterology and Hepatology (Australia), 2008, 23, e275-82.	1.4	5
43	Cryopreservation of Stem Cells. NATO Science for Peace and Security Series A: Chemistry and Biology, 2008, , 223-231.	0.5	1
44	Cryopreservation of human fetal liver hematopoietic stem/progenitor cells using sucrose as an additive to the cryoprotective medium. Cryobiology, 2008, 57, 195-200.	0.3	41
45	Choice of conditions of human bone marrow stromal cells seeding into polymer macroporus sponges. Biopolymers and Cell, 2008, 24, 399-405.	0.1	5
46	Positive effects of cryopreserved adult or fetal liver cell transplants on hypercholesterolemia and hepatic antioxidant defenses in cholesterol-fed rabbits. Cryobiology, 2007, 55, 72-79.	0.3	2
47	Ab Initio Prediction of Tryptophan Fluorescence Quenching by Protein Electric Field Enabled Electron Transfer. Journal of Physical Chemistry B, 2007, 111, 10335-10339.	1.2	59
48	Cryopreserved Fetal Liver Cell Transplants Support the Chronic Failing Liver in Rats with CCl4-Induced Cirrhosis. Cell Transplantation, 2006, 15, 23-33.	1.2	13
49	Hepatoprotective effect of fetal tissue cytosol and its thermostable fraction in rats with carbon tetrachloride-induced hepatitis. Bulletin of Experimental Biology and Medicine, 2006, 141, 544-547.	0.3	6
50	Supplementation with Fetal-Specific Factors Ameliorates Oxidative Liver Damage During Hypothermic Storage and Reperfusion in a Rat Model. Cell Preservation Technology, 2005, 3, 201-209.	0.8	7
51	The osmotic characteristics of human fetal liver-derived hematopoietic stem cell candidates. Cryobiology, 2004, 48, 333-340.	0.3	11
52	A SIMPLE NON-ENZYMATIC METHOD FOR THE ISOLATION OF HIGH YIELDS OF FUNCTIONAL RAT HEPATOCYTES. Cell Biology International, 2002, 26, 1003-1006.	1.4	13
53	Respiratory Activity of Isolated Rat Hepatocytes Following Cold Storage and Subsequent Rewarming: A Comparison of Sucrose-Based and University of Wisconsin Solutions. Cryobiology, 2001, 42, 218-221.	0.3	16
54	Effect of transplantation of human fetal tissues on prooxidant-antioxidant equilibrium in the liver and blood rats after partial hepatectomy in rats. Bulletin of Experimental Biology and Medicine, 2001, 132, 950-952.	0.3	0

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55	Intracellular Ice Formation Is Affected by Cell Interactions. Cryobiology, 1999, 38, 363-371.	0.3	106
56	Separation of intact and damaged hepatocytes in sucrose following non-enzymatic liver perfusion. Cytotechnology, 1995, 17, 127-131.	0.7	0
57	Inhibition of Biotransformation of Xenobiotic p-Nitroanisole after Cryopreservation of Isolated Rat Hepatocytes. Cryobiology, 1993, 30, 158-163.	0.3	5
58	A mechanism of latent cryoinjury and reparation of mitochondria. Cryobiology, 1992, 29, 144-152.	0.3	13
59	Isolation of intact mitochondria and hepatocytes using vibration. Analytical Biochemistry, 1991, 194, 326-329.	1.1	21