

Alexey Golovkin

List of Publications by Year in descending order

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68
papers

927
citations

394286

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552653

26
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69
all docs

69
docs citations

69
times ranked

1335
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro toxicity of Fe ₃ O ₄ , Fe ₃ O ₄ -SiO ₂ composite, and SiO ₂ -Fe ₃ O ₄ core-shell magnetic nanoparticles. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 593-603.	3.3	46
2	Modification of polylactic acid surface using RF plasma discharge with sputter deposition of a hydroxyapatite target for increased biocompatibility. <i>Applied Surface Science</i> , 2015, 329, 32-39.	3.1	45
3	Electrospun Bilayer Chitosan/Hyaluronan Material and Its Compatibility with Mesenchymal Stem Cells. <i>Materials</i> , 2019, 12, 2016.	1.3	41
4	Imbalanced Immune Response of T-Cell and B-Cell Subsets in Patients with Moderate and Severe COVID-19. <i>Viruses</i> , 2021, 13, 1966.	1.5	39
5	Association of TLR and TREM-1 gene polymorphisms with risk of coronary artery disease in a Russian population. <i>Gene</i> , 2014, 550, 101-109.	1.0	38
6	Apoptosis-mediated endothelial toxicity but not direct calcification or functional changes in anti-calcification proteins defines pathogenic effects of calcium phosphate bions. <i>Scientific Reports</i> , 2016, 6, 27255.	1.6	37
7	Different Notch signaling in cells from calcified bicuspid and tricuspid aortic valves. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 114, 211-219.	0.9	36
8	Association of TLR and TREM-1 gene polymorphisms with atherosclerosis severity in a Russian population. <i>Meta Gene</i> , 2016, 9, 76-89.	0.3	32
9	An association between single nucleotide polymorphisms within TLR and TREM-1 genes and infective endocarditis. <i>Cytokine</i> , 2015, 71, 16-21.	1.4	28
10	Mechanisms of Smooth Muscle Cell Differentiation Are Distinctly Altered in Thoracic Aortic Aneurysms Associated with Bicuspid or Tricuspid Aortic Valves. <i>Frontiers in Physiology</i> , 2017, 8, 536.	1.3	27
11	Heterogeneity of the nucleic acid repertoire of plasma extracellular vesicles demonstrated using high-sensitivity fluorescence-activated sorting. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1743139.	5.5	27
12	Surface modification of poly(L-lactide) and polycaprolactone bioresorbable polymers using RF plasma discharge with sputter deposition of a hydroxyapatite target. <i>Materials Letters</i> , 2014, 132, 281-284.	1.3	26
13	Dose-dependent mechanism of Notch action in promoting osteogenic differentiation of mesenchymal stem cells. <i>Cell and Tissue Research</i> , 2020, 379, 169-179.	1.5	25
14	Mucoadhesive cholesterol-chitosan self-assembled particles for topical ocular delivery of dexamethasone. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 811-818.	3.6	24
15	Osteoinductive composite coatings for flexible intramedullary nails. <i>Materials Science and Engineering C</i> , 2017, 75, 207-220.	3.8	23
16	The Significance of Phenotyping and Quantification of Plasma Extracellular Vesicles Levels Using High-Sensitivity Flow Cytometry during COVID-19 Treatment. <i>Viruses</i> , 2021, 13, 767.	1.5	22
17	Biological Effect of the Surface Modification of the Fibrous Poly(L-lactic acid) Scaffolds by Radio Frequency Magnetron Sputtering of Different Calcium-Phosphate Targets. <i>BioNanoScience</i> , 2017, 7, 50-57.	1.5	21
18	Dysregulated Immune Responses in SARS-CoV-2-Infected Patients: A Comprehensive Overview. <i>Viruses</i> , 2022, 14, 1082.	1.5	20

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19	Genetic predisposition to calcific aortic stenosis and mitral annular calcification. <i>Molecular Biology Reports</i> , 2014, 41, 5645-5663.	1.0	19
20	Synthesis and Characterization of Novel Succinyl Chitosan-Dexamethasone Conjugates for Potential Intravitreal Dexamethasone Delivery. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10960.	1.8	19
21	A Randomised, Controlled Study of Different Glycaemic Targets during Gestational Diabetes Treatment: Effect on the Level of Adipokines in Cord Blood and ANGPTL4 Expression in Human Umbilical Vein Endothelial Cells. <i>International Journal of Endocrinology</i> , 2018, 2018, 1-8.	0.6	17
22	Cytocompatibility of Bilayer Scaffolds Electrospun from Chitosan/Alginate-Chitin Nanowhiskers. <i>Biomedicines</i> , 2020, 8, 305.	1.4	17
23	Effect of Cholecalciferol Supplementation on the Clinical Features and Inflammatory Markers in Hospitalized COVID-19 Patients: A Randomized, Open-Label, Single-Center Study. <i>Nutrients</i> , 2022, 14, 2602.	1.7	16
24	T Cell Response in Patients with Implanted Biological and Mechanical Prosthetic Heart Valves. <i>Mediators of Inflammation</i> , 2016, 2016, 1-12.	1.4	13
25	Modification of the Ceramic Implant Surfaces from Zirconia by the Magnetron Sputtering of Different Calcium Phosphate Targets: A Comparative Study. <i>Materials</i> , 2018, 11, 1949.	1.3	13
26	Skeletal Muscle Resident Progenitor Cells Coexpress Mesenchymal and Myogenic Markers and Are Not Affected by Chronic Heart Failure-Induced Dysregulations. <i>Stem Cells International</i> , 2019, 2019, 1-11.	1.2	13
27	Perioperative Dynamics of TLR2, TLR4, and TREM-1 Expression in Monocyte Subpopulations in the Setting of On-Pump Coronary Artery Bypass Surgery. <i>ISRN Inflammation</i> , 2013, 2013, 1-8.	4.9	12
28	The formation of calcium phosphate coatings by pulse laser deposition on the surface of polymeric ferroelectric. <i>Applied Surface Science</i> , 2015, 349, 420-429.	3.1	12
29	The deposition of thin titanium-nitrogen coatings on the surface of PCL-based scaffolds for vascular tissue engineering. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	12
30	Vitamin D Status and Immune Response in Hospitalized Patients with Moderate and Severe COVID-19. <i>Pharmaceuticals</i> , 2022, 15, 305.	1.7	12
31	Cellular Mechanisms of Aortic Valve Calcification. <i>Bulletin of Experimental Biology and Medicine</i> , 2018, 164, 371-375.	0.3	11
32	Comparative Study of the Physical, Topographical and Biological Properties of Electrospinning PCL, PLLA, their Blend and Copolymer Scaffolds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 350, 012012.	0.3	11
33	Flexible intramedullary nails for limb lengthening: a comprehensive comparative study of three nails types. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 025005.	1.7	11
34	Application of high-sensitivity flow cytometry in combination with low-voltage scanning electron microscopy for characterization of nanosized objects during platelet concentrate storage. <i>Platelets</i> , 2020, 31, 226-235.	1.1	11
35	Bacterial Cellulose (<i>Komagataeibacter rhaeticus</i>) Biocomposites and Their Cytocompatibility. <i>Materials</i> , 2020, 13, 4558.	1.3	11
36	MODERN TECHNOLOGIES AND APPROACHES TO APOPTOSIS STUDIES IN EXPERIMENTAL BIOLOGY. <i>Medical Immunology (Russia)</i> , 2014, 14, 461.	0.1	11

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37	Nitrogen-Doped Titanium Dioxide Thin Films Formation on the Surface of PLLA Electrospun Microfibers Scaffold by Reactive Magnetron Sputtering Method. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 503-517.	1.1	10
38	â€œSolvent/non-solventâ€ treatment as a method for non-covalent immobilization of gelatin on the surface of poly(l-lactic acid) electrospun scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 137-140.	2.5	10
39	Hemolytic Activity, Cytotoxicity, and Antimicrobial Effects of Human Albumin- and Polysorbate-80-Coated Silver Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 1484.	1.9	10
40	Fabrication and properties of l-arginine-doped PCL electrospun composite scaffolds. <i>Materials Letters</i> , 2018, 214, 64-67.	1.3	7
41	CD73 Rather Than CD39 Is Mainly Involved in Controlling Purinergic Signaling in Calcified Aortic Valve Disease. <i>Frontiers in Genetics</i> , 2019, 10, 604.	1.1	7
42	PURINERGIC REGULATION OF BASIC PHYSIOLOGICAL AND PATHOLOGICAL PROCESSES. <i>Medical Immunology (Russia)</i> , 2018, 20, 463-476.	0.1	7
43	PURINERGIC SIGNALING RECEPTORS EXPRESSION ON PERIPHERAL T-LYMPHOCYTES OF HEALTHY DONORS. <i>Translational Medicine</i> , 2017, 4, 46-60.	0.1	7
44	CD39 ⁺ EXPRESSION BY REGULATORY T CELLS IN PULMONARY SARCOIDOSIS AND LOFGRENâ€™S SYNDROME. <i>Medical Immunology (Russia)</i> , 2019, 21, 467-478.	0.1	7
45	Calcifying nanoparticles: one face of distinct entities?. <i>Frontiers in Microbiology</i> , 2014, 5, 214.	1.5	6
46	Magnetron plasma mediated immobilization of hyaluronic acid for the development of functional double-sided biodegradable vascular graft. <i>Applied Surface Science</i> , 2020, 529, 147196.	3.1	6
47	The role of muscle tissue in the pathogenesis of chronic heart failure â€” the potential of exposure (FORMA study). <i>Russian Journal of Cardiology</i> , 2019, , 58-65.	0.4	6
48	Time- and Ventricular-Specific Expression Profiles of Genes Encoding Z-Disk Proteins in Pressure Overload Model of Left Ventricular Hypertrophy. <i>Frontiers in Genetics</i> , 2018, 9, 684.	1.1	5
49	Dysregulation of Notch signaling in cardiac mesenchymal cells of patients with tetralogy of Fallot. <i>Pediatric Research</i> , 2020, 88, 38-47.	1.1	5
50	Biophysical Characterization and Cytocompatibility of Cellulose Cryogels Reinforced with Chitin Nanowhiskers. <i>Polymers</i> , 2022, 14, 2694.	2.0	5
51	Intestinal Oxygenotherapy of Critical Conditions. <i>Obshchaya Reanimatologiya</i> , 2017, 13, 74-91.	0.2	4
52	ASSOCIATION OF TREM-1 GENE POLYMORPHISMS WITH INFECTIVE ENDOCARDITIS. <i>Russian Journal of Infection and Immunity</i> , 2016, 5, 331-338.	0.2	3
53	Osteogenic potential of adipose mesenchymal stem cells is not correlated with aortic valve calcification. <i>Biological Communications</i> , 2018, 63, 117-122.	0.4	3
54	METHODS FOR INVESTIGATION OF EXTRACELLULAR VESICLE SUBPOPULATIONS. <i>Tsitologiya</i> , 2018, 60, 487-497.	0.2	3

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55	Extracellular vesicles therapy: opportunities, mechanisms and perspectives. Russian Journal of Cardiology, 2020, 25, 4081.	0.4	3
56	Impact of various modifications of biodegradable membranous scaffolds surface on multipotent mesenchymal stromal cells adhesion and viability. Bulletin of Siberian Medicine, 2012, 11, 5-12.	0.1	2
57	sTREM-1 as a Prognostic Marker of Postoperative Complications in Cardiac Surgery. ISRN Inflammation, 2012, 2012, 1-5.	4.9	2
58	APPROACHES TO BIOMATERIALS TESTING ACCORDING TO MODERN BIOCOMPATIBILITY PARADIGM. Translational Medicine, 2017, 4, 29-40.	0.1	2
59	Organ-specific LPS-induced inflammatory gene expression in adult Zebrafish. Medical Immunology (Russia), 2021, 23, 1069-1078.	0.1	2
60	Markers of calcium and phosphate metabolism and osteopenic syndrome in patients with coronary artery disease. Panminerva Medica, 2016, 58, 253-262.	0.2	2
61	IMPACT OF INNATE IMMUNITY GENES IN DEVELOPMENT OF CRITICAL POSTOPERATIVE COMPLICATIONS AFTER CORONARY ARTERY BYPASSES GRAFTING. Translational Medicine, 2017, 4, 15-27.	0.1	1
62	O-09 Soluble triggering receptor expressed on myeloid cells (TREM-1) as a marker of noninfection systemic inflammatory response syndrome (SIRS). Journal of Cardiothoracic and Vascular Anesthesia, 2011, 25, S4.	0.6	0
63	Proliferative and secretory activity of human umbilical endothelial cells cultivated under various hypoxia conditions. Cell and Tissue Biology, 2014, 8, 204-212.	0.2	0
64	Insights Image for "Dysregulation of Notch signaling in cardiac mesenchymal cells of patients with Tetralogy of Fallot". Pediatric Research, 2020, 88, 139-139.	1.1	0
65	ASSOCIATION OF THE INDIVIDUAL VARIABLE SITES TLRs GENES WITH THE SEVERITY OF CHD IN YOUNGER PATIENTS. Siberian Medical Review, 2016, , 32-41.	0.1	0
66	The role of calcium and phosphorus bionic elements in pathogenesis of atherosclerosis: lack of direct calcification of tissues and change of conformation of anticalcificating proteins. Medical Almanac, 2016, , 135-139.	0.1	0
67	Changes in the expression of the MADD gene in experimental models of myocardial hypertrophy. Arterial Hypertension (Russian Federation), 2020, 25, 489-497.	0.1	0
68	Biocompatibility of electrospinning polycaprolactone, polylactic acid, their blends and copolymers scaffolds in in vitro tests if mesenchyme stem cells. Translational Medicine, 2022, 8, 38-49.	0.1	0