Igor Khlusov

List of Publications by Year
in descending order

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84 papers	997 citations	394286 19 h-index	477173 29 g-index
89 all docs	89 docs citations	89 times ranked	974 citing authors

#	Article	IF	Citations
1	Compressive Strength Characteristics of Long Tubular Bones after Hyperthermal Ablation. Symmetry, 2022, 14, 303.	1.1	4
2	Study of the role of heparin in regulation of the morphofunctional properties of MSC <i>in vitro</i>. Drug Development and Registration, 2022, 11, 174-179.	0.2	0
3	Nitrogen-doped titanium dioxide films fabricated via magnetron sputtering for vascular stent biocompatibility improvement. Journal of Colloid and Interface Science, 2022, 626, 101-112.	5.0	9
4	Diatomite-based ceramic biocoating for magnesium implants. Ceramics International, 2022, 48, 28059-28071.	2.3	11
5	In Vitro Biodegradation of a-C:H:SiOx Films on Ti-6Al-4V Alloy. Materials, 2022, 15, 4239.	1.3	0
6	Elaboration and pilot study of 3D vaccines for oncotherapy. Voprosy Rekonstruktivnoj I PlastiÄeskoj Hirurgii, 2022, 25, 57-67.	0.0	0
7	UMAOH Calcium Phosphate Coatings Designed for Drug Delivery: Vancomycin, 5-Fluorouracil, Interferon Î±-2b Case. Materials, 2022, 15, 4643.	1.3	6
8	Biodegradable polymer composites with osteogenic potential. Bulletin of Siberian Medicine, 2021, 19, 119-129.	0.1	0
9	Effect of working gas on physicochemical and biological properties of CaP coatings deposited by RFMS. Biomedical Materials (Bristol), 2021, 16, 035012.	1.7	1
10	Osteogenic differentiation factors of multipotent mesenchymal stromal cells in the current understanding. Current Pharmaceutical Design, 2021, 27, 3741-3751.	0.9	1
11	Calcium Chelidonate: Semi-Synthesis, Crystallography, and Osteoinductive Activity In Vitro and In Vivo. Pharmaceuticals, 2021, 14, 579.	1.7	3
12	Amorphousâ€“Crystalline Calcium Phosphate Coating Promotes In Vitro Growth of Tumor-Derived Jurkat T Cells Activated by Anti-CD2/CD3/CD28 Antibodies. Materials, 2021, 14, 3693.	1.3	5
13	Patterns of conjunctival and scleral regeneration after intraoperative application of cyclosporin A solution in rabbits with steroid-induced glaucoma. Bulletin of Siberian Medicine, 2021, 20, 36-43.	0.1	1
14	Zn-Doped CaP-Based Coatings on Tiâ€“6Alâ€“4V and Tiâ€“6Alâ€“7Nb Alloys Prepared by Magnetron Sputtering: Controllable Biodegradation, Bacteriostatic, and Osteogenic Activities. Coatings, 2021, 11, 809.	1.2	18
15	Zn- or Cu-containing CaP-Based Coatings Formed by Micro-Arc Oxidation on Titanium and Ti-40Nb Alloy: Part IIâ€”Wettability and Biological Performance. Materials, 2020, 13, 4366.	1.3	16
16	Zn- or Cu-Containing CaP-Based Coatings Formed by Micro-arc Oxidation on Titanium and Ti-40Nb Alloy: Part Iâ€”Microstructure, Composition and Properties. Materials, 2020, 13, 4116.	1.3	26
17	Calcium Phosphate Coating Prepared by Microarc Oxidation Affects hTERT Expression, Molecular Presentation, and Cytokine Secretion in Tumor-Derived Jurkat T Cells. Materials, 2020, 13, 4307.	1.3	6
18	Costimulatory Effect of Rough Calcium Phosphate Coating and Blood Mononuclear Cells on Adipose-Derived Mesenchymal Stem Cells In Vitro as a Model of In Vivo Tissue Repair. Materials, 2020, 13, 4398.	1.3	11

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19	Gene Expression Regulation and Secretory Activity of Mesenchymal Stem Cells upon In Vitro Contact with Microarc Calcium Phosphate Coating. International Journal of Molecular Sciences, 2020, 21, 7682.	1.8	6
20	Stability of <scp>aâ€C</scp>:H:<scp>SiO_x</scp> coating on polypropylene to chemical sterilization. Journal of Applied Polymer Science, 2020, 137, 49570.	1.3	3
21	Poly(lactic acid) based polymer composites for biomedicine. AIP Conference Proceedings, 2020, , .	0.3	1
22	The study of platelet reaction on a-C:H:SiOx coatings obtained via plasma enhanced chemical vapor deposition with bipolar bias voltage. Bulletin of Siberian Medicine, 2020, 19, 15-21.	0.1	0
23	The Biomaterial Surface Nanoscaled Electrical Potential Promotes Osteogenesis of the Stromal Cell. IFMBE Proceedings, 2019, , 139-142.	0.2	0
24	Comparative In Vitro Evaluation of Antibacterial and Osteogenic Activity of Polysaccharide and Flavonoid Fractions Isolated from the leaves of Saussurea controversa. Molecules, 2019, 24, 3680.	1.7	7
25	Chelidonic Acid and Its Derivatives from Saussurea Controversa: Isolation, Structural Elucidation and Influence on the Osteogenic Differentiation of Multipotent Mesenchymal Stromal Cells In Vitro. Biomolecules, 2019, 9, 189.	1.8	13
26	Zn-, Cu- or Ag-incorporated micro-arc coatings on titanium alloys: Properties and behavior in synthetic biological media. Surface and Coatings Technology, 2019, 369, 52-68.	2.2	60
27	Twoâ€stage approach for surgical treatment of tetralogy of Fallot in underweight children: Clinical and morphological outcomes. Journal of Cardiac Surgery, 2019, 34, 293-299.	0.3	9
28	Short review of the biomedical properties and application of magnesium alloys for bone tissue bioengineering. Bulletin of Siberian Medicine, 2019, 18, 274-286.	0.1	4
29	Cellular and Molecular Basis of Osteoblastic and Vascular Niches in the Processes of Hematopoiesis and Bone Remodeling (A Short Review of Modern Views). Current Pharmaceutical Design, 2019, 25, 663-669.	0.9	4
30	Pathomorphological features of conjunctival and scleral regeneration associated with intraoperative application of Cyclosporin A. Bulletin of Siberian Medicine, 2019, 18, 46-52.	0.1	0
31	Pathomorphological features of conjunctival and scleral regeneration associated with intraoperative application of Cyclosporin A. Bulletin of Siberian Medicine, 2019, 18, 46-52.	0.1	0
32	Design of Conductive Microwire Systems for Manipulation of Biological Cells. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	9
33	Granulocyte-macrophage progenitor cells response to magnetite nanoparticles in a static magnetic field. Journal of Magnetism and Magnetic Materials, 2018, 459, 84-91.	1.0	5
34	Concept of Hematopoietic and Stromal Niches for Cell-Based Diagnostics and Regenerative Medicine (a) Tj ETQq0 0 0 rgBT /Overlock 10	0.9	13
35	Modification of the Ceramic Implant Surfaces from Zirconia by the Magnetron Sputtering of Different Calcium Phosphate Targets: A Comparative Study. Materials, 2018, 11, 1949.	1.3	13
36	Rough Titanium Oxide Coating Prepared by Micro-Arc Oxidation Causes Down-Regulation of hTERT Expression, Molecular Presentation, and Cytokine Secretion in Tumor Jurkat T Cells. Materials, 2018, 11, 360.	1.3	8

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37	Nanoscale Electrical Potential and Roughness of a Calcium Phosphate Surface Promotes the Osteogenic Phenotype of Stromal Cells. Materials, 2018, 11, 978.	1.3	29
38	Modeling of the mesenchymal stem cell microenvironment as a prospective approach to tissue bioengineering and regenerative medicine (a short review). Bulletin of Siberian Medicine, 2018, 17, 217-228.	0.1	3
39	Imbalance of morphofunctional responses of Jurkat T lymphoblasts at short-term culturing with relief zinc- or copper-containing calcium phosphate coating on titanium. Doklady Biochemistry and Biophysics, 2017, 472, 35-39.	0.3	8
40	Comparative investigations of structure and properties of micro-arc wollastonite-calcium phosphate coatings on titanium and zirconium-niobium alloy. Bioactive Materials, 2017, 2, 177-184.	8.6	27
41	Nanoparticles for magnetic biosensing systems. Journal of Magnetism and Magnetic Materials, 2017, 431, 249-254.	1.0	37
42	Water-Based Suspensions of Iron Oxide Nanoparticles with Electrostatic or Steric Stabilization by Chitosan: Fabrication, Characterization and Biocompatibility. Sensors, 2017, 17, 2605.	2.1	25
43	In-vitro dissolution and structural and electrokinetic characteristics of titanium-oxynitride coatings formed via reactive magnetron sputtering. Journal of Surface Investigation, 2016, 10, 282-291.	0.1	23
44	Influence of the Structure of the Titanium Oxide Coating Surface on Immunocompetent Tumor Cells. Russian Physics Journal, 2016, 58, 1527-1533.	0.2	5
45	Morphological changes of the red blood cells treated with metal oxide nanoparticles. Toxicology in Vitro, 2016, 37, 34-40.	1.1	19
46	Functional coatings formed on the titanium and magnesium alloys as implant materials by plasma electrolytic oxidation technology: fundamental principles and synthesis conditions. Corrosion Reviews, 2016, 34, 65-83.	1.0	44
47	Anticorrosion coatings for Ti and NiTi implants. Materials Technology, 2016, 31, 203-209.	1.5	6
48	Titanium surface modification by microarc oxidation in electrolyte based on wollastonite and hydroxyapatite. AIP Conference Proceedings, 2015, , .	0.3	2
49	Ferroelectric polymer scaffolds based on a copolymer of tetrafluoroethylene with vinylidene fluoride: Fabrication and properties. Materials Science and Engineering C, 2014, 40, 32-41.	3.8	19
50	Artificial Niches for Stromal Stem Cells as a Potential Instrument for the Design of the Surface of Biomimetic Osteogenic Materials. Russian Physics Journal, 2014, 56, 1206-1211.	0.2	5
51	Diagnostics of 3D Scaffolds by the Method of X-Ray Phase Contrast Visualization. Russian Physics Journal, 2014, 56, 1116-1123.	0.2	0
52	Modulating Effect of Matrices with Calcium Phosphate Coating on Cytotoxicity of Strontium Ranelate and Ibandronic Acid In Vitro. Bulletin of Experimental Biology and Medicine, 2014, 157, 215-219.	0.3	2
53	Physical properties and biocompatibility of UHMWPE-derived materials modified by synchrotron radiation. Journal of Materials Science: Materials in Medicine, 2014, 25, 1843-1852.	1.7	20
54	Detection In Vitro and Quantitative Estimation of Artificial Microterritories Which Promote Osteogenic Differentiation and Maturation of Stromal Stem Cells. Methods in Molecular Biology, 2013, 1035, 103-119.	0.4	16

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55	Physical, chemical and biological properties of micro-arc deposited calcium phosphate coatings on titanium and zirconium-niobium alloy. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 188-197.	0.5	35
56	Nonwoven Polylactide Scaffolds Obtained by Solution Blow Spinning and the In Vitro Degradation Dynamics. Advanced Materials Research, 2013, 872, 257-262.	0.3	7
57	Magnetosensitive lipid composites encapsulated by cytostatic agent. preparation, sterilization conditions, properties. , 2012, , .		0
58	Formation and properties of bioactive surface layers on titanium. Inorganic Materials: Applied Research, 2011, 2, 474-481.	0.1	36
59	Study of physicochemical and biological properties of calcium phosphate coatings prepared by RF magnetron sputtering of silicon-substituted hydroxyapatite. Journal of Surface Investigation, 2011, 5, 863-869.	0.1	26
60	Pilot in vitro study of the parameters of artificial niche for osteogenic differentiation of human stromal stem cell pool. Bulletin of Experimental Biology and Medicine, 2011, 150, 535-542.	0.3	19
61	Structural and Functional State of the Bone Marrow during Its In Vitro Interaction with Ferromagnetic Nanoparticles. Bulletin of Experimental Biology and Medicine, 2011, 151, 473-476.	0.3	4
62	Effect of microplasma modes and electrolyte composition on micro-arc oxidation coatings on titanium for medical applications. Surface and Coatings Technology, 2010, 205, 1723-1729.	2.2	72
63	The Structure and Physical and Mechanical Properties of a Novel Biocomposite Material, Nanostructured Titaniumâ€“Calcium-Phosphate Coating. Composite Interfaces, 2009, 16, 535-546.	1.3	48
64	Colony-forming activity of unipotent hemopoietic precursors under the effect of nanosized ferrites in a constant magnetic field in vitro. Bulletin of Experimental Biology and Medicine, 2008, 145, 151-157.	0.3	7
65	Application of high-frequency magnetron sputtering to deposit thin calcium-phosphate biocompatible coatings on a titanium surface. Journal of Surface Investigation, 2007, 1, 679-682.	0.1	20
66	Cell effects of xenon n vitro under hypothermal conditions. Bulletin of Experimental Biology and Medicine, 2007, 143, 510-513.	0.3	2
67	Relationship between osteogenic characteristics of bone marrow cells and calcium phosphate surface relief and solubility. Bulletin of Experimental Biology and Medicine, 2006, 141, 99-103.	0.3	16
68	A hybrid PHBâ€“hydroxyapatite composite for biomedical application: production, in vitro and in vivo investigation. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 481-498.	1.9	74
69	Morphofunctional Characteristics of Blood Mononuclear Cells during in Vitro Culturing under Dynamic Conditions. Bulletin of Experimental Biology and Medicine, 2005, 139, 374-376.	0.3	1
70	Osteogenic Potential of Mesenchymal Stem Cells from Bone Marrow in Situ: Role of Physicochemical Properties of Artificial Surfaces. Bulletin of Experimental Biology and Medicine, 2005, 140, 144-152.	0.3	24
71	<title>Phototherapy of adenoid disease in children</title>. , 2004, , .		1
72	Adhesion of Staphylococcus aureus to implants with different physicochemical characteristics. Bulletin of Experimental Biology and Medicine, 2002, 134, 277-280.	0.3	18

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73	Effect of endogenic phototherapy on intestinal microflora and immunity of a man. , 2001, 4244, 310.		0
74	<title>Autonomous microdevices for phototherapy</title>. , 2001, , .		0
75	Activity of sympathoadrenal system and myelokaryocyte death during aging in AKR/JY mice. Bulletin of Experimental Biology and Medicine, 2000, 129, 519-521.	0.3	0
76	Reaction of adrenal medulla to extreme factors of various nature. Bulletin of Experimental Biology and Medicine, 1997, 123, 255-256.	0.3	2
77	Dependence of the proliferation of hemopoietic adrenergic precursors under the influence of cytostatics. Bulletin of Experimental Biology and Medicine, 1997, 123, 555-558.	0.3	5
78	Adrenergic control of production of humoral regulators of hemopoiesis in cytostatic myelodepression. Bulletin of Experimental Biology and Medicine, 1995, 119, 127-131.	0.3	2
79	Adrenergic mechanisms for controlling the proliferation and differentiation of hemopoietic precursors in immobilization stress. Bulletin of Experimental Biology and Medicine, 1993, 116, 1325-1328.	0.3	0
80	Production of humoral factors by bone marrow cells subjected to different extreme conditions. Bulletin of Experimental Biology and Medicine, 1993, 116, 1066-1068.	0.3	0
81	Mechanisms of D-glucuronic acid stimulation of bone marrow granulomonocytopoiesis under conditions of cytostatic myelodepression. Bulletin of Experimental Biology and Medicine, 1993, 115, 364-366.	0.3	1
82	The role of the sympatheticoadrenal structures in hematopoiesis regulation under cytostatic myelodepression. Bulletin of Experimental Biology and Medicine, 1993, 115, 392-395.	0.3	4
83	Role of the thymus in regulation of stromal cells transferring the hematopoiesis-inducing microenvironment in stress. Bulletin of Experimental Biology and Medicine, 1989, 108, 1766-1768.	0.3	0
84	Development of Titanium Implants with a Rough Calcium Phosphate Surface to Control the Morphofunctional State of Stem Cells. Key Engineering Materials, 0, 887, 40-45.	0.4	0