

# Igor Khlusov

## List of Publications by Year in descending order

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84  
papers

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citations

394286

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477173

29  
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89  
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89  
docs citations

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times ranked

974  
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid PHB-hydroxyapatite composite for biomedical application: production, in vitro and in vivo investigation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 481-498.	1.9	74
2	Effect of microplasma modes and electrolyte composition on micro-arc oxidation coatings on titanium for medical applications. <i>Surface and Coatings Technology</i> , 2010, 205, 1723-1729.	2.2	72
3	Zn-, Cu- or Ag-incorporated micro-arc coatings on titanium alloys: Properties and behavior in synthetic biological media. <i>Surface and Coatings Technology</i> , 2019, 369, 52-68.	2.2	60
4	The Structure and Physical and Mechanical Properties of a Novel Biocomposite Material, Nanostructured Titanium-Calcium-Phosphate Coating. <i>Composite Interfaces</i> , 2009, 16, 535-546.	1.3	48
5	Functional coatings formed on the titanium and magnesium alloys as implant materials by plasma electrolytic oxidation technology: fundamental principles and synthesis conditions. <i>Corrosion Reviews</i> , 2016, 34, 65-83.	1.0	44
6	Nanoparticles for magnetic biosensing systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 431, 249-254.	1.0	37
7	Formation and properties of bioactive surface layers on titanium. <i>Inorganic Materials: Applied Research</i> , 2011, 2, 474-481.	0.1	36
8	Physical, chemical and biological properties of micro-arc deposited calcium phosphate coatings on titanium and zirconium-niobium alloy. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013, 44, 188-197.	0.5	35
9	Nanoscale Electrical Potential and Roughness of a Calcium Phosphate Surface Promotes the Osteogenic Phenotype of Stromal Cells. <i>Materials</i> , 2018, 11, 978.	1.3	29
10	Comparative investigations of structure and properties of micro-arc wollastonite-calcium phosphate coatings on titanium and zirconium-niobium alloy. <i>Bioactive Materials</i> , 2017, 2, 177-184.	8.6	27
11	Study of physicochemical and biological properties of calcium phosphate coatings prepared by RF magnetron sputtering of silicon-substituted hydroxyapatite. <i>Journal of Surface Investigation</i> , 2011, 5, 863-869.	0.1	26
12	Zn- or Cu-Containing CaP-Based Coatings Formed by Micro-arc Oxidation on Titanium and Ti-40Nb Alloy: Part I-Microstructure, Composition and Properties. <i>Materials</i> , 2020, 13, 4116.	1.3	26
13	Water-Based Suspensions of Iron Oxide Nanoparticles with Electrostatic or Steric Stabilization by Chitosan: Fabrication, Characterization and Biocompatibility. <i>Sensors</i> , 2017, 17, 2605.	2.1	25
14	Osteogenic Potential of Mesenchymal Stem Cells from Bone Marrow in Situ: Role of Physicochemical Properties of Artificial Surfaces. <i>Bulletin of Experimental Biology and Medicine</i> , 2005, 140, 144-152.	0.3	24
15	In-vitro dissolution and structural and electrokinetic characteristics of titanium-oxynitride coatings formed via reactive magnetron sputtering. <i>Journal of Surface Investigation</i> , 2016, 10, 282-291.	0.1	23
16	Application of high-frequency magnetron sputtering to deposit thin calcium-phosphate biocompatible coatings on a titanium surface. <i>Journal of Surface Investigation</i> , 2007, 1, 679-682.	0.1	20
17	Physical properties and biocompatibility of UHMWPE-derived materials modified by synchrotron radiation. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1843-1852.	1.7	20
18	Pilot in vitro study of the parameters of artificial niche for osteogenic differentiation of human stromal stem cell pool. <i>Bulletin of Experimental Biology and Medicine</i> , 2011, 150, 535-542.	0.3	19

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19	Ferroelectric polymer scaffolds based on a copolymer of tetrafluoroethylene with vinylidene fluoride: Fabrication and properties. <i>Materials Science and Engineering C</i> , 2014, 40, 32-41.	3.8	19
20	Morphological changes of the red blood cells treated with metal oxide nanoparticles. <i>Toxicology in Vitro</i> , 2016, 37, 34-40.	1.1	19
21	Adhesion of <i>Staphylococcus aureus</i> to implants with different physicochemical characteristics. <i>Bulletin of Experimental Biology and Medicine</i> , 2002, 134, 277-280.	0.3	18
22	Zn-Doped CaP-Based Coatings on Ti-6Al-4V and Ti-6Al-7Nb Alloys Prepared by Magnetron Sputtering: Controllable Biodegradation, Bacteriostatic, and Osteogenic Activities. <i>Coatings</i> , 2021, 11, 809.	1.2	18
23	Relationship between osteogenic characteristics of bone marrow cells and calcium phosphate surface relief and solubility. <i>Bulletin of Experimental Biology and Medicine</i> , 2006, 141, 99-103.	0.3	16
24	Detection In Vitro and Quantitative Estimation of Artificial Microterritories Which Promote Osteogenic Differentiation and Maturation of Stromal Stem Cells. <i>Methods in Molecular Biology</i> , 2013, 1035, 103-119.	0.4	16
25	Zn- or Cu-containing CaP-Based Coatings Formed by Micro-Arc Oxidation on Titanium and Ti-40Nb Alloy: Part II—Wettability and Biological Performance. <i>Materials</i> , 2020, 13, 4366.	1.3	16
26	Concept of Hematopoietic and Stromal Niches for Cell-Based Diagnostics and Regenerative Medicine (a) Tj ETQq0 0,0 rgBT /Overlock 10	0.9	13
27	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
28	Chelidonic Acid and Its Derivatives from <i>Saussurea Controversa</i> : Isolation, Structural Elucidation and Influence on the Osteogenic Differentiation of Multipotent Mesenchymal Stromal Cells In Vitro. <i>Biomolecules</i> , 2019, 9, 189.	1.8	13
29	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. <i>Materials</i> , 2020, 13, 4398.	1.3	11
30	Diatomite-based ceramic biocoating for magnesium implants. <i>Ceramics International</i> , 2022, 48, 28059-28071.	2.3	11
31	Design of Conductive Microwire Systems for Manipulation of Biological Cells. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	1.2	9
32	Two-stage approach for surgical treatment of tetralogy of Fallot in underweight children: Clinical and morphological outcomes. <i>Journal of Cardiac Surgery</i> , 2019, 34, 293-299.	0.3	9
33	Nitrogen-doped titanium dioxide films fabricated via magnetron sputtering for vascular stent biocompatibility improvement. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 101-112.	5.0	9
34	Imbalance of morphofunctional responses of Jurkat T lymphoblasts at short-term culturing with relief zinc- or copper-containing calcium phosphate coating on titanium. <i>Doklady Biochemistry and Biophysics</i> , 2017, 472, 35-39.	0.3	8
35	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. <i>Materials</i> , 2018, 11, 360.	1.3	8
36	Colony-forming activity of unipotent hemopoietic precursors under the effect of nanosized ferrites in a constant magnetic field in vitro. <i>Bulletin of Experimental Biology and Medicine</i> , 2008, 145, 151-157.	0.3	7

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37	Nonwoven Polylactide Scaffolds Obtained by Solution Blow Spinning and the <i>In Vitro</i> Degradation Dynamics. <i>Advanced Materials Research</i> , 2013, 872, 257-262.	0.3	7
38	Comparative In Vitro Evaluation of Antibacterial and Osteogenic Activity of Polysaccharide and Flavonoid Fractions Isolated from the leaves of <i>Saussurea controversa</i> . <i>Molecules</i> , 2019, 24, 3680.	1.7	7
39	Anticorrosion coatings for Ti and NiTi implants. <i>Materials Technology</i> , 2016, 31, 203-209.	1.5	6
40	Calcium Phosphate Coating Prepared by Microarc Oxidation Affects hTERT Expression, Molecular Presentation, and Cytokine Secretion in Tumor-Derived Jurkat T Cells. <i>Materials</i> , 2020, 13, 4307.	1.3	6
41	Gene Expression Regulation and Secretory Activity of Mesenchymal Stem Cells upon In Vitro Contact with Microarc Calcium Phosphate Coating. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7682.	1.8	6
42	UMAOH Calcium Phosphate Coatings Designed for Drug Delivery: Vancomycin, 5-Fluorouracil, Interferon $\beta$ Case. <i>Materials</i> , 2022, 15, 4643.	1.3	6
43	Dependence of the proliferation of hemopoietic adrenergic precursors under the influence of cytostatics. <i>Bulletin of Experimental Biology and Medicine</i> , 1997, 123, 555-558.	0.3	5
44	Artificial Niches for Stromal Stem Cells as a Potential Instrument for the Design of the Surface of Biomimetic Osteogenic Materials. <i>Russian Physics Journal</i> , 2014, 56, 1206-1211.	0.2	5
45	Influence of the Structure of the Titanium Oxide Coating Surface on Immunocompetent Tumor Cells. <i>Russian Physics Journal</i> , 2016, 58, 1527-1533.	0.2	5
46	Granulocyte-macrophage progenitor cells response to magnetite nanoparticles in a static magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 84-91.	1.0	5
47	Amorphous–Crystalline Calcium Phosphate Coating Promotes In Vitro Growth of Tumor-Derived Jurkat T Cells Activated by Anti-CD2/CD3/CD28 Antibodies. <i>Materials</i> , 2021, 14, 3693.	1.3	5
48	The role of the sympatheticoadrenal structures in hematopoiesis regulation under cytostatic myelodepression. <i>Bulletin of Experimental Biology and Medicine</i> , 1993, 115, 392-395.	0.3	4
49	Structural and Functional State of the Bone Marrow during Its In Vitro Interaction with Ferromagnetic Nanoparticles. <i>Bulletin of Experimental Biology and Medicine</i> , 2011, 151, 473-476.	0.3	4
50	Short review of the biomedical properties and application of magnesium alloys for bone tissue bioengineering. <i>Bulletin of Siberian Medicine</i> , 2019, 18, 274-286.	0.1	4
51	Cellular and Molecular Basis of Osteoblastic and Vascular Niches in the Processes of Hematopoiesis and Bone Remodeling (A Short Review of Modern Views). <i>Current Pharmaceutical Design</i> , 2019, 25, 663-669.	0.9	4
52	Compressive Strength Characteristics of Long Tubular Bones after Hyperthermal Ablation. <i>Symmetry</i> , 2022, 14, 303.	1.1	4
53	Stability of $\text{HfSiO}_x$ coating on polypropylene to chemical sterilization. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49570.	1.3	3
54	Calcium Chelidonate: Semi-Synthesis, Crystallography, and Osteoinductive Activity In Vitro and In Vivo. <i>Pharmaceuticals</i> , 2021, 14, 579.	1.7	3

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55	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
56	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
57	Reaction of adrenal medulla to extreme factors of various nature. Bulletin of Experimental Biology and Medicine, 1997, 123, 255-256.	0.3	2
58	Cell effects of xenon n vitro under hypothermal conditions. Bulletin of Experimental Biology and Medicine, 2007, 143, 510-513.	0.3	2
59	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
60	Titanium surface modification by microarc oxidation in electrolyte based on wollastonite and hydroxyapatite. AIP Conference Proceedings, 2015, , .	0.3	2
61	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
62	<title>Phototherapy of adenoid disease in children</title>. , 2004, , .		1
63	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
64	Effect of working gas on physicochemical and biological properties of CaP coatings deposited by RFMS. Biomedical Materials (Bristol), 2021, 16, 035012.	1.7	1
65	Osteogenic differentiation factors of multipotent mesenchymal stromal cells in the current understanding. Current Pharmaceutical Design, 2021, 27, 3741-3751.	0.9	1
66	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
67	Poly(lactic acid) based polymer composites for biomedicine. AIP Conference Proceedings, 2020, , .	0.3	1
68	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
69	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
70	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
71	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
72	Effect of endogenic phototherapy on intestinal microflora and immunity of a man. , 2001, 4244, 310.		0

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73	<title>Autonomous microdevices for phototherapy</title> . , 2001, , .		0
74	Magneto-sensitive lipid composites encapsulated by cytostatic agent. preparation, sterilization conditions, properties. , 2012, , .		0
75	Diagnostics of 3D Scaffolds by the Method of X-Ray Phase Contrast Visualization. Russian Physics Journal, 2014, 56, 1116-1123.	0.2	0
76	The Biomaterial Surface Nanoscaled Electrical Potential Promotes Osteogenesis of the Stromal Cell. IFMBE Proceedings, 2019, , 139-142.	0.2	0
77	Biodegradable polymer composites with osteogenic potential. Bulletin of Siberian Medicine, 2021, 19, 119-129.	0.1	0
78	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
79	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
80	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
81	The study of platelet reaction on a-C:H:SiO <sub>x</sub> coatings obtained via plasma enhanced chemical vapor deposition with bipolar bias voltage. Bulletin of Siberian Medicine, 2020, 19, 15-21.	0.1	0
82	Study of the role of heparin in regulation of the morphofunctional properties of MSC &lt;i>in vitro&/i>. Drug Development and Registration, 2022, 11, 174-179.	0.2	0
83	In Vitro Biodegradation of a-C:H:SiO <sub>x</sub> Films on Ti-6Al-4V Alloy. Materials, 2022, 15, 4239.	1.3	0
84	Elaboration and pilot study of 3D vaccines for oncotherapy. Voprosy Rekonstruktivnoj I PlastiÄeskoj Hirurgii, 2022, 25, 57-67.	0.0	0