

Maxim A Abakumov

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

1,768
citations

304368

22
h-index

329751

37
g-index

103
all docs

103
docs citations

103
times ranked

2747
citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Cerebral Perfusion on Mesenchymal Stem Cells Distribution after Intra-Arterial Transplantation: A Quantitative MR Study. <i>Biomedicines</i> , 2022, 10, 353.	1.4	4
2	Cobalt Ferrite Nanoparticles for Tumor Therapy: Effective Heating versus Possible Toxicity. <i>Nanomaterials</i> , 2022, 12, 38.	1.9	19
3	New Approach to Non-Invasive Tumor Model Monitoring via Self-Assemble Iron Containing Protein Nanocompartments. <i>Nanomaterials</i> , 2022, 12, 1657.	1.9	4
4	Renal Artery Catheterization for Microcapsules™ Targeted Delivery to the Mouse Kidney. <i>Pharmaceutics</i> , 2022, 14, 1056.	2.0	5
5	Urokinase-Type Plasminogen Activator Enhances the Neuroprotective Activity of Brain-Derived Neurotrophic Factor in a Model of Intracerebral Hemorrhage. <i>Biomedicines</i> , 2022, 10, 1346.	1.4	2
6	Liposomal Form of 2,4-Dinitrophenol Lipophilic Derivatives as a Promising Therapeutic Agent for ATP Synthesis Inhibition. <i>Nanomaterials</i> , 2022, 12, 2162.	1.9	0
7	Pt(IV) Prodrugs with Non-Steroidal Anti-inflammatory Drugs in the Axial Position. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 8227-8244.	2.9	21
8	In Vivo Tracking for Oncolytic Adenovirus Interactions with Liver Cells. <i>Biomedicines</i> , 2022, 10, 1697.	1.4	3
9	Intravital imaging of liposome behavior upon repeated administration: A step towards the development of liposomal companion diagnostic for cancer nanotherapy. <i>Journal of Controlled Release</i> , 2021, 330, 244-256.	4.8	11
10	Synthesis and intensive analysis of antibody labeled single core magnetic nanoparticles for targeted delivery to the cell membrane. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 521, 167487.	1.0	11
11	Variation in tumor pH affects pH-triggered delivery of peptide-modified magnetic nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 32, 102317.	1.7	16
12	Magnetic Nanoparticles as a Tool for Remote DNA Manipulations at a Single-Molecule Level. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14458-14469.	4.0	14
13	Genetically Encoded Self-Assembling Iron Oxide Nanoparticles as a Possible Platform for Cancer-Cell Tracking. <i>Pharmaceutics</i> , 2021, 13, 397.	2.0	9
14	Intra-Arterial Stem Cell Transplantation in Experimental Stroke in Rats: Real-Time MR Visualization of Transplanted Cells Starting With Their First Pass Through the Brain With Regard to the Therapeutic Action. <i>Frontiers in Neuroscience</i> , 2021, 15, 641970.	1.4	22
15	Synthesis and Biological Evaluation of PSMA Ligands with Aromatic Residues and Fluorescent Conjugates Based on Them. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 4532-4552.	2.9	19
16	Effects of Macromolecular Crowding on Nanoparticle Diffusion: New Insights from Mössbauer Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6804-6811.	2.1	10
17	Fluorescently Labeled PLGA Nanoparticles for Visualization In Vitro and In Vivo: The Importance of Dye Properties. <i>Pharmaceutics</i> , 2021, 13, 1145.	2.0	12
18	FEASIBILITY STUDY OF MAGNETIC RESONANCE IMAGING APPLICATION IN EXPERIMENTAL RADIOLOGY FOR INTRAVITAL VERIFICATION OF LUNGS METASTASES IN MICE. , 2021, 20, 69-75.	0.3	0

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19	Photochemical synthesis, intercalation with DNA and antitumor evaluation in vitro of benzo[d]thiazolo[3,2-a]quinolin-10-ium derivatives. <i>Bioorganic Chemistry</i> , 2021, 115, 105267.	2.0	5
20	Non-magnetic shell coating of magnetic nanoparticles as key factor of toxicity for cancer cells in a low frequency alternating magnetic field. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 206, 111931.	2.5	16
21	Biocompatible dextran-coated gadolinium-doped cerium oxide nanoparticles as MRI contrast agents with high T_1 relaxivity and selective cytotoxicity to cancer cells. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6586-6599.	2.9	24
22	Encapsulin Based Self-Assembling Iron-Containing Protein Nanoparticles for Stem Cells MRI Visualization. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12275.	1.8	10
23	Synthesis and Mössbauer study of anomalous magnetic behavior of Fe ₂ O ₃ nanoparticle-montmorillonite nanocomposites. <i>Hyperfine Interactions</i> , 2020, 241, 1.	0.2	1
24	Impact of forsterite addition on mechanical and biological properties of composites. <i>Journal of Asian Ceramic Societies</i> , 2020, 8, 1051-1065.	1.0	15
25	Multifunctional Fe ₃ O ₄ -Au Nanoparticles for the MRI Diagnosis and Potential Treatment of Liver Cancer. <i>Nanomaterials</i> , 2020, 10, 1646.	1.9	27
26	Studying the Effect of Brownian Motion on the Mössbauer Spectra of Nanoparticles in a Medium Simulating Cell Cytoplasm. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2020, 84, 1399-1402.	0.1	3
27	Study of the Brownian Broadening in the Mössbauer Spectra of Magnetic Nanoparticles in Colloids with Different Viscosities. <i>Crystallography Reports</i> , 2020, 65, 398-403.	0.1	5
28	Synthesis and In Vitro Study of the Biodegradation Resistance of Magnetic Nanoparticles Designed for Studying the Viscoelasticity of Cytoplasm. <i>Crystallography Reports</i> , 2020, 65, 381-386.	0.1	1
29	Enzyme Release from Polyion Complex by Extremely Low Frequency Magnetic Field. <i>Scientific Reports</i> , 2020, 10, 4745.	1.6	9
30	Unravelling the nucleation, growth, and faceting of magnetite-gold nanohybrids. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3886-3895.	2.9	5
31	Encapsulins-Bacterial Protein Nanocompartments: Structure, Properties, and Application. <i>Biomolecules</i> , 2020, 10, 966.	1.8	29
32	Expression of the Reverse Transcriptase Domain of Telomerase Reverse Transcriptase Induces Lytic Cellular Response in DNA-Immunized Mice and Limits Tumorigenic and Metastatic Potential of Murine Adenocarcinoma 4T1 Cells. <i>Vaccines</i> , 2020, 8, 318.	2.1	2
33	Versatile seed-mediated method of CoFe ₃ O ₄ nanoparticles synthesis in glycol media via thermal decomposition. <i>Materials Letters</i> , 2020, 276, 128210.	1.3	5
34	Temperature-controlled magnetic nanoparticles hyperthermia inhibits primary tumor growth and metastases dissemination. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 25, 102171.	1.7	53
35	Neutrophil-mediated transport is crucial for delivery of short-circulating magnetic nanoparticles to tumors. <i>Acta Biomaterialia</i> , 2020, 104, 176-187.	4.1	32
36	In Vitro and In Vivo Electrochemical Measurement of Reactive Oxygen Species After Treatment with Anticancer Drugs. <i>Analytical Chemistry</i> , 2020, 92, 8010-8014.	3.2	58

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37	Progressive lysosomal membrane permeabilization induced by iron oxide nanoparticles drives hepatic cell autophagy and apoptosis. <i>Nano Convergence</i> , 2020, 7, 17.	6.3	19
38	Advances and Challenges of Nanoparticle-Based Macrophage Reprogramming for Cancer Immunotherapy. <i>Biochemistry (Moscow)</i> , 2019, 84, 729-745.	0.7	8
39	Contrast Agents Based on Iron Oxide Nanoparticles for Clinical Magnetic Resonance Imaging. <i>Bulletin of Experimental Biology and Medicine</i> , 2019, 167, 272-274.	0.3	2
40	Extravasating Neutrophils Open Vascular Barrier and Improve Liposomes Delivery to Tumors. <i>ACS Nano</i> , 2019, 13, 12599-12612.	7.3	39
41	Hyperthermal Effect of Cubic Magnetic Nanoparticles. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019, 83, 1294-1299.	0.1	6
42	Comparison of the Efficiency of Transplantation of Rat and Human Olfactory Ensheathing Cells in Posttraumatic Cysts of the Spinal Cord. <i>Bulletin of Experimental Biology and Medicine</i> , 2019, 167, 536-540.	0.3	2
43	Magnetic properties of biofunctionalized iron oxide nanoparticles as magnetic resonance imaging contrast agents. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1964-1972.	1.5	16
44	Relaxation Properties of Contrast Media for MRI Based on Iron Oxide Nanoparticles in Different Magnetic Fields. <i>Bulletin of Experimental Biology and Medicine</i> , 2019, 167, 97-99.	0.3	2
45	Intravital microscopy reveals a novel mechanism of nanoparticles excretion in kidney. <i>Journal of Controlled Release</i> , 2019, 307, 368-378.	4.8	40
46	Preparation and Testing of Cells Expressing Fluorescent Proteins for Intravital Imaging of Tumor Microenvironment. <i>Bulletin of Experimental Biology and Medicine</i> , 2019, 167, 123-130.	0.3	6
47	Electrodeposition of cobalt-substituted calcium phosphate coatings on Ti22Nb6Zr alloy for bone implant applications. <i>Journal of Alloys and Compounds</i> , 2019, 793, 576-582.	2.8	20
48	Magnetic and Optical Properties of Gold-Coated Iron Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4987-4993.	0.9	6
49	Evaluation of cyclic luciferin as a substrate for luminescence measurements in inÂvitro and inÂvivo applications. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 535-539.	1.0	5
50	Immobilization of a pH-low insertion peptide onto SiO2/aminosilane-coated magnetite nanoparticles. <i>Mendeleev Communications</i> , 2019, 29, 631-634.	0.6	13
51	Synthesis of iron oxide nanorods for enhanced magnetic hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 469, 443-449.	1.0	47
52	Human serum albumin as an effective coating for hydrophobic photosensitizers immobilization on magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 475, 108-114.	1.0	6
53	Synthesis and characterization of bacteriochlorin loaded magnetic nanoparticles (MNP) for personalized MRI guided photosensitizers delivery to tumor. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 132-141.	5.0	30
54	Magnetic resonance imaging for predicting personalized antitumor nanomedicine efficacy. <i>Bulletin of Russian State Medical University</i> , 2019, , 21-24.	0.3	0

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55	Lipidoid iron oxide nanoparticles are a platform for nucleic acid delivery to the liver. Bulletin of Russian State Medical University, 2019, , 40-48.	0.3	0
56	Effect of Iron Oxide Nanoparticle Shape on Doxorubicin Drug Delivery Toward LNCaP and PC-3 Cell Lines. BioNanoScience, 2018, 8, 394-406.	1.5	13
57	Multimodal doxorubicin loaded magnetic nanoparticles for VEGF targeted theranostics of breast cancer. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1733-1742.	1.7	56
58	Design of Conductive Microwire Systems for Manipulation of Biological Cells. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	9
59	Synthesis of Iron Oxide Nanoclusters by Thermal Decomposition. Langmuir, 2018, 34, 4640-4650.	1.6	29
60	Multilayer polyion complex nanoformulations of superoxide dismutase 1 for acute spinal cord injury. Journal of Controlled Release, 2018, 270, 226-236.	4.8	45
61	Diffusion Tensor Imaging in Diagnosis of Post-Traumatic Syringomyelia in Spinal Cord Injury in Rats. Medical Science Monitor, 2018, 24, 177-182.	0.5	5
62	Genetically encodable bioluminescent system from fungi. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12728-12732.	3.3	130
63	Effect of Magnetite Nanoparticle Morphology on the Parameters of MRI Relaxivity. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 1214-1221.	0.1	7
64	Survival and Migration of Rat Olfactory Ensheathing Cells after Transplantation into Posttraumatic Cysts in the Spinal Cord. Bulletin of Experimental Biology and Medicine, 2018, 166, 118-123.	0.3	4
65	Nanocarbon colloid produced by electro-spark discharge in ethanol for seeding the substrates in MPACVD synthesis of polycrystalline diamond films. Journal of Physics: Conference Series, 2018, 1094, 012030.	0.3	1
66	HSA-Coated Magnetic Nanoparticles for MRI-Guided Photodynamic Cancer Therapy. Pharmaceutics, 2018, 10, 284.	2.0	15
67	Toxicity of iron oxide nanoparticles: Size and coating effects. Journal of Biochemical and Molecular Toxicology, 2018, 32, e22225.	1.4	82
68	Biodistribution and Tumors MRI Contrast Enhancement of Magnetic Nanocubes, Nanoclusters, and Nanorods in Multiple Mice Models. Contrast Media and Molecular Imaging, 2018, 2018, 1-12.	0.4	15
69	Size-selected Fe ₃ O ₄ -Au hybrid nanoparticles for improved magnetism-based theranostics. Beilstein Journal of Nanotechnology, 2018, 9, 2684-2699.	1.5	32
70	Anisotropic Iron-Oxide Nanoparticles for Diagnostic MRI: Synthesis and Contrast Properties. Pharmaceutical Chemistry Journal, 2018, 52, 231-235.	0.3	2
71	Magnetite-Gold nanohybrids as ideal all-in-one platforms for theranostics. Scientific Reports, 2018, 8, 11295.	1.6	77
72	Codon optimization and improved delivery/immunization regimen enhance the immune response against wild-type and drug-resistant HIV-1 reverse transcriptase, preserving its Th2-polarity. Scientific Reports, 2018, 8, 8078.	1.6	20

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73	Isolation of Rat Olfactory Ensheathing Cells and Their Use in the Therapy of Posttraumatic Cysts of the Spinal Cord. Bulletin of Experimental Biology and Medicine, 2018, 165, 132-135.	0.3	10
74	Assessment of the Parameters of Adaptive Cell-Mediated Immunity in Na ⁺ -ve Common Marmosets (Callithrix jacchus). Acta Naturae, 2018, 10, 63-69.	1.7	4
75	Study of the contrasting effectiveness of various tumors types using cubic magnetite nanoparticles. Bulletin of Siberian Medicine, 2018, 17, 139-148.	0.1	0
76	Evaluation of absorbed dose distribution in melanoma B16F10 during contrast enhanced radiotherapy with intratumoral administration of dose-enhancing agent. Bulletin of Russian State Medical University, 2018, , 60-64.	0.3	0
77	Assessment of the Parameters of Adaptive Cell-Mediated Immunity in Na ⁺ -ve Common Marmosets (Callithrix jacchus). Acta Naturae, 2018, 10, 63-69.	1.7	0
78	Stress plays provoking role in hypertension-related stroke: injuries of blood-brain barrier function. Proceedings of SPIE, 2017, , .	0.8	1
79	Synthesis, characterization and MRI application of magnetite water-soluble cubic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 441, 6-13.	1.0	33
80	Magnetic Resonance Imaging of Tumors with the Use of Iron Oxide Magnetic Nanoparticles as a Contrast Agent. Bulletin of Experimental Biology and Medicine, 2017, 162, 808-811.	0.3	11
81	Luciferase Expression Allows Bioluminescence Imaging But Imposes Limitations on the Orthotopic Mouse (4T1) Model of Breast Cancer. Scientific Reports, 2017, 7, 7715.	1.6	89
82	Synthesis and Investigation of Photophysical and Biological Properties of Novel S ⁺ -Containing Bacteriopurpurinimides. Journal of Medicinal Chemistry, 2017, 60, 10220-10230.	2.9	12
83	Study of iodine, gadolinium and bismuth quantification possibility with micro-CT IVIS spectrumct in vivo imaging system. Journal of Physics: Conference Series, 2017, 784, 012043.	0.3	2
84	Methodological aspects of MRI of transplanted superparamagnetic iron oxide-labeled mesenchymal stem cells in live rat brain. PLoS ONE, 2017, 12, e0186717.	1.1	18
85	Stress Plays Provoking Role in Hypertension-Related Stroke: Injuries of Blood-Brain Barrier Function. , 2016, , .		0
86	The Stress and Vascular Catastrophes in Newborn Rats: Mechanisms Preceding and Accompanying the Brain Hemorrhages. Frontiers in Physiology, 2016, 7, 210.	1.3	6
87	Relationship between the Size of Magnetic Nanoparticles and Efficiency of MRT Imaging of Cerebral Glioma in Rats. Bulletin of Experimental Biology and Medicine, 2016, 161, 292-295.	0.3	5
88	Pulsed Dendritic Cells for the Therapy of Experimental Glioma. Bulletin of Experimental Biology and Medicine, 2016, 161, 792-796.	0.3	1
89	Critical changes in the brain leads to the intracranial hemorrhages in newborn rats. , 2016, , .		0
90	Connexin 43-targeted T ₁ contrast agent for MRI diagnosis of glioma. Contrast Media and Molecular Imaging, 2016, 11, 15-23.	0.4	10

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91	Contrast enhanced MRI of tumors using gadopentetic acid linked to cyclodextrin by an ester bond. Bulletin of Russian State Medical University, 2016, , 34-39.	0.3	1
92	Synthesis and characterization of PEG-silane functionalized iron oxide(II, III) nanoparticles for biomedical application. Nanotechnologies in Russia, 2015, 10, 896-903.	0.7	5
93	Core-shell corona doxorubicin-loaded superparamagnetic Fe ₃ O ₄ nanoparticles for cancer theranostics. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1073-1080.	2.5	59
94	VEGF-targeted magnetic nanoparticles for MRI visualization of brain tumor. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 825-833.	1.7	101
95	Site-Directed Delivery of VEGF-Targeted Liposomes into Intracranial C6 Glioma. Bulletin of Experimental Biology and Medicine, 2015, 158, 371-376.	0.3	15
96	Modeling and Integral X-Ray, Optical, and MRI Visualization of Multiorgan Metastases of Orthotopic 4T1 Breast Carcinoma in BALB/c Mice. Bulletin of Experimental Biology and Medicine, 2015, 158, 581-588.	0.3	14
97	Development of bacteriochlorophyll a-based near-infrared photosensitizers conjugated to gold nanoparticles for photodynamic therapy of cancer. Biochemistry (Moscow), 2015, 80, 752-762.	0.7	22
98	Precise Delivery Into Chronic Spinal Cord Injury Syringomyelic Cysts with Magnetic Nanoparticles MRI Visualization. Medical Science Monitor, 2015, 21, 3179-3185.	0.5	23
99	Targeted Delivery of Cisplatin by ðionnexin 43 Vector Nanogels to the Focus of Experimental Glioma C6. Bulletin of Experimental Biology and Medicine, 2014, 157, 524-529.	0.3	15
100	Visualization of Experimental Glioma C6 by MRI with Magnetic Nanoparticles Conjugated with Monoclonal Antibodies to Vascular Endothelial Growth Factor. Bulletin of Experimental Biology and Medicine, 2012, 154, 274-277.	0.3	16
101	Tumor-Specific Contrast Agent Based on Ferric Oxide Superparamagnetic Nanoparticles for Visualization of Gliomas by Magnetic Resonance Tomography. Bulletin of Experimental Biology and Medicine, 2012, 153, 89-93.	0.3	3
102	Magnetic Resonance Imaging of Endothelial Cells with Vectorized Iron Oxide Nanoparticles. Bulletin of Experimental Biology and Medicine, 2011, 151, 726-730.	0.3	1