Aleksander Lozhkomoev

List of Publications by Year in Descending Order

67 papers	435 citations	11 h-index	18 g-index
90 ext. papers	643 ext. citations	2.2 avg, IF	3.75 L-index

#	Paper	IF	Citations
67	Application of Crumpled Aluminum Hydroxide Nanostructures for Cancer Treatment. *Springer Tracts in Mechanical Engineering*, **2021**, 211-223	0.3	1
66	Synthesis of Fe/Fe3O4 core-shell nanoparticles by electrical explosion of the iron wire in an oxygen-containing atmosphere. *Journal of Nanoparticle Research*, **2021**, 23, 1	2.3	5
65	Synthesis, Properties, and Antimicrobial Activity of AlOOH–ZnO–ZnO–LDH Nanostructures. *Russian Journal of Physical Chemistry A*, **2021**, 95, 1043-1050	0.7	2
64	Synthesis of Ta–Cu Bimetallic Nanoparticles and the Bulk Composite with Antimicrobial Activity. *Inorganic Materials: Applied Research*, **2021**, 12, 755-761	0.6	0
63	Structure, Morphology, and Antibacterial Properties of Mesoporous AlOOH–Metal Nanocomposites. *Inorganic Materials: Applied Research*, **2021**, 12, 767-775	0.6	0
62	Design and Preparation of Silver–Copper Nanoalloys for Antibacterial Applications. *Journal of Cluster Science*, **2021**, 32, 779-786	3	4
61	CYTOTOXIC PROPERTIES OF NANOSTRUCTURES BASED ON ALUMINUM OXIDE AND HYDROXIDE PHASES IN RELATION TO TUMOR CELLS. *Siberian Journal of Oncology*, **2021**, 20, 73-83	0.3	
60	Formation of Structural-Phase States in Ag–Cu Bimetallic Nanoparticles Produced By Electrical Explosion of Wires. *Russian Physics Journal*, **2021**, 63, 1557-1561	0.7	2
59	Ag–Cu/Pmma Nanocomposites Produced By Modification of PMMA with Bimetallic EEW-Nanoparticles. *Russian Physics Journal*, **2020**, 63, 926-931	0.7	
58	Bimetallic Al–Ag, Al–Cu and Al–Zn nanoparticles with controllable phase compositions prepared by the electrical explosion of two wires. *Powder Technology*, **2020**, 372, 136-147	5.2	7
57	Synthesis and antibacterial activity of cellulose acetate sheets modified with flower-shaped AlOOH/Ag. *Cellulose*, **2020**, 27, 6663-6676	5.5	5
56	Oxidation and oxidation products of encapsulated aluminum nanopowders. *Journal of Nanoparticle Research*, **2020**, 22, 1	2.3	1
55	Hierarchical Ø-alumina: From Pure Phase to Nanocomposites. *Recent Patents on Nanotechnology*, **2020**, 14, 92-101	1.2	1
54	Synergistic effect of antitumor activity of doxorubicin and bicomponent nanostructures based on aluminum oxide. *Siberian Journal of Oncology*, **2020**, 19, 82-89	0.3	1
53	Bimetallic Ag–Cu nanoparticles interaction with lipid and lipopolysaccharide membranes. *Computational Materials Science*, **2020**, 173, 109396	3.2	5
52	Effect of the Morphology of Ø-Al2O3 Nanosized Particles on Their Adsorption Properties. *Russian Journal of Physical Chemistry A*, **2020**, 94, 806-809	0.7	2
51	Design of antimicrobial composite nanoparticles ZnxMe(100-x)/O by electrical explosion of two wires in the oxygen-containing atmosphere. *Materials and Design*, **2019**, 183, 108099	8.1	9

50	Cold Sintering of Fe□Ag and Fe□Cu Nanocomposites by Consolidation in the High-Pressure Gradient. *Russian Journal of Non-Ferrous Metals*, **2019**, 60, 162-168	0.8	1
49	Fabrication of Fe-Cu composites from electroexplosive bimetallic nanoparticles by spark plasma sintering. *Vacuum*, **2019**, 170, 108980	3.7	11
48	Synthesis of CuO□ZnO composite nanoparticles by electrical explosion of wires and their antibacterial activities. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 13209-13216	2.1	10
47	Synthesis of Bimetal Fe□Pb Janus Nanoparticles via the Electric Explosion of Iron and Lead Conductors. *Inorganic Materials: Applied Research*, **2019**, 10, 699-705	0.6	2
46	Cold Sintering of Ni□Ag Nanocomposite Particles Produced by Electric Explosion of Wires. *Inorganic Materials: Applied Research*, **2019**, 10, 691-698	0.6	1
45	Explosive Compaction of Bimetallic Nonconjugated Nanoparticles in Synthesis of Composite Materials. *Russian Physics Journal*, **2019**, 61, 2142-2143	0.7	2
44	Molecular dynamics study of bimetallic Fe□Cu Janus nanoparticles formation by electrical explosion of wires. *Philosophical Magazine*, **2019**, 99, 1121-1138	1.6	3
43	New approach to production of antimicrobial Al2O3-Ag nanocomposites by electrical explosion of two wires. *Materials Research Bulletin*, **2019**, 119, 110545	5.1	3
42	Cold sintering of Fe-Ag and Fe-Cu by consolidation in high pressure gradient. *Russian Journal of Non-Ferrous Metals*, **2019**, 67-74	0.1	
41	New magnetic bimetallic yanus-like Ag-Fe nanoparticles for antitumine therapy. *Siberian Journal of Oncology*, **2019**, 18, 65-70	0.3	
40	THE ROLE OF EPITHELIAL-TO-MESENCHYMAL TRANSITION AND AUTOPHAGY IN ANTITUMORAL RESPONSE OF MELANOMA CELL LINES TO TARGET INHIBITION OF MEK AND mTOR KINASES. *Siberian Journal of Oncology*, **2019**, 18, 64-70	0.3	0
39	Structural, Mechanical, and Tribological Characterization of Magnetic Pulse Compacted Fe□Cu Bimetallic Particles Produced by Electric Explosion of Dissimilar Metal Wires. *Metals*, **2019**, 9, 1287	2.3	4
38	Synthesis and antimicrobical activity of composite oxides nanoparticles based on ZnO. *IOP Conference Series: Materials Science and Engineering*, **2019**, 684, 012012	0.4	
37	Synthesis of W-Cu composite nanoparticles by the electrical explosion of two wires and their consolidation by spark plasma sintering. *Materials Research Express*, **2019**, 6, 1265i9	1.7	2
36	Application of hierarchical nanostructured aluminum oxyhydroxide for bleeding control **2019**,		1
35	The formation of Fe Cu composite based on bimetallic nanoparticles. *Vacuum*, **2019**, 159, 441-446	3.7	6
34	Preparation of aluminum hydroxide and oxide nanostructures with controllable morphology by wet oxidation of AlN/Al nanoparticles. *Materials Research Bulletin*, **2018**, 104, 97-103	5.1	10
33	Fe□Cu Nanocomposites by High Pressure Consolidation of Powders prepared by Electric Explosion of Wires. *Advanced Engineering Materials*, **2018**, 20, 1701024	3.5	15

32	Crumpled Aluminum Hydroxide Nanostructures as a Microenvironment Dysregulation Agent for Cancer Treatment. *Nano Letters*, **2018**, 18, 5401-5410	11.5	17
31	Structural-Phase States of Fe□Cu and Fe□Ag Bimetallic Particles Produced by Electric Explosion of Two Wires. *Russian Physics Journal*, **2018**, 61, 14-18	0.7	4
30	Cellulose acetate fibres surface modified with AlOOH/Cu particles: synthesis, characterization and antimicrobial activity. *Cellulose*, **2018**, 25, 4487-4497	5.5	8
29	Estimation of the influence of porous nanostructured materials on blood chemistry values. *IOP Conference Series: Materials Science and Engineering*, **2018**, 447, 012072	0.4	0
28	AlOOH-Ag nanostructure formation in water oxidation of Al/Ag binary nanoparticles **2018**,		1
27	Patterns of the Formation of Antimicrobial Micro/Nanocomposites during the Oxidation of Bimetallic Al/Zn Nanoparticles. *Russian Journal of Physical Chemistry A*, **2018**, 92, 2530-2534	0.7	4
26	Synthesis, characterization and properties of porous micro/nanostructures obtained by oxidizing aluminum nanoparticles with water in the presence of glass fibers. *Materials Research Express*, **2018**, 5, 115011	1.7	
25	Investigation of Characteristics of Alloys Manufactured by Shock-Wave Compaction on Bimetallic Fe-Cu Powders. *Russian Physics Journal*, **2018**, 61, 949-954	0.7	3
24	Development of Fe/Cu and Fe/Ag Bimetallic Nanoparticles for Promising Biodegradable Materials with Antimicrobial Effect. *Nanotechnologies in Russia*, **2018**, 13, 18-25	0.6	15
23	On the possibility of soft matter nanostructure formation based on mesoporous aluminum hydroxide. Prospects for biomedical applications. *Physical Mesomechanics*, **2017**, 20, 134-141	1.6	11
22	Acid-base and adsorption properties of the AlOOH 2D nanostructures as factors for regulating parameters of model biological solutions. *Nanotechnologies in Russia*, **2016**, 11, 506-511	0.6	4
21	Role of metal oxide nanostructures in extracellular pH regulations **2016**,		1
20	Structures of binary metallic nanoparticles produced by electrical explosion of two wires from immiscible elements. *Powder Technology*, **2016**, 288, 371-378	5.2	59
19	Synthesis of Al□Al2O3 and Al□AlN Nanoparticle Composites Via Electric Explosion of Wires. *Russian Physics Journal*, **2016**, 59, 422-429	0.7	11
18	Synthesis of core-shell AlOOH hollow nanospheres by reacting Al nanoparticles with water. *Nanotechnology*, **2016**, 27, 205603	3.4	30
17	Iron oxide and gold nanoparticles in cancer therapy **2016**,		2
16	Synthesis of Al nanoparticles and Al/AlN composite nanoparticles by electrical explosion of aluminum wires in argon and nitrogen. *Powder Technology*, **2016**, 295, 307-314	5.2	71
15	The Influence of Precursor Disaggregation During Synthesis of Low-Dimensional AlOOH Structures on their Morphology. *Russian Physics Journal*, **2015**, 57, 1669-1675	0.7	5

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14	Flower-shaped ALOOH nanostructures synthesized by the reaction of an AlN/Al composite nanopowder in water. *Advanced Powder Technology*, **2015**, 26, 1512-1519	4.6	26
13	Investigation of porous structure of SiO2/Al2O3aerogel by the method of low-temperature adsorption of nitrogen and high-resolution spectroscopy **2015**,		1
12	Specific features of aluminum nanoparticle water and wet air oxidation **2015**,		4
11	Cytotoxicity of oxidation products of Al nanoparticles to Neuro-2a and L929 cells **2015**,		5
10	Formation regularities of AlOOH hollow spheres during aluminum nanopowder water oxidation **2015**,		2
9	Effect of low-dimensional alumina structures on viability of L 929 cells **2015**,		4
8	Chemical behaviour of Al/Cu nanoparticles in water. *Progress in Natural Science: Materials International*, **2015**, 25, 1-5	3.6	11
7	Formation of micro/nanostructured AlOOH hollow spheres from aluminum nanoparticles. *Nanotechnologies in Russia*, **2015**, 10, 858-864	0.6	8
6	Synthesis of low-size flower-like AlOOH structures **2014**,		3
5	Antimicrobial activity of nanostructured composites produced in Al/Zn nanoparticle oxidation in aqueous-alcoholic solutions **2014**,		3
4	Modification of the polymer fiber surface by dreplasma for adhesion of aluminum oxyhydroxide particles. *Russian Physics Journal*, **2013**, 56, 384-388	0.7	1
3	Adsorption of microorganisms and bacterial endotoxin on modified polymer fibers. *Inorganic Materials: Applied Research*, **2011**, 2, 488-492	0.6	1
2	Adsorption of negative eosin ions, Tannin molecules, and latex spheres on aluminum oxohydroxide nanofibers. *Russian Journal of Applied Chemistry*, **2009**, 82, 581-586	0.8	3
1	Influence of Morphology and Textural Characteristics of Al2O3 Nanostructures on the Potentiation of Doxorubicin. *Journal of Cluster Science*,1	3	