

# Aleksander Lozhkomoev

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3144288/aleksander-lozhkomoev-publications-by-citations.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Synthesis of Al nanoparticles and Al/AlN composite nanoparticles by electrical explosion of aluminum wires in argon and nitrogen. <i>Powder Technology</i> , <b>2016</b> , 295, 307-314	5.2	71
66	Structures of binary metallic nanoparticles produced by electrical explosion of two wires from immiscible elements. <i>Powder Technology</i> , <b>2016</b> , 288, 371-378	5.2	59
65	Synthesis of core-shell ALOOH hollow nanospheres by reacting Al nanoparticles with water. <i>Nanotechnology</i> , <b>2016</b> , 27, 205603	3.4	30
64	Flower-shaped ALOOH nanostructures synthesized by the reaction of an AlN/Al composite nanopowder in water. <i>Advanced Powder Technology</i> , <b>2015</b> , 26, 1512-1519	4.6	26
63	Crumpled Aluminum Hydroxide Nanostructures as a Microenvironment Dysregulation Agent for Cancer Treatment. <i>Nano Letters</i> , <b>2018</b> , 18, 5401-5410	11.5	17
62	Fe/Cu Nanocomposites by High Pressure Consolidation of Powders prepared by Electric Explosion of Wires. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1701024	3.5	15
61	Development of Fe/Cu and Fe/Ag Bimetallic Nanoparticles for Promising Biodegradable Materials with Antimicrobial Effect. <i>Nanotechnologies in Russia</i> , <b>2018</b> , 13, 18-25	0.6	15
60	Fabrication of Fe-Cu composites from electroexplosive bimetallic nanoparticles by spark plasma sintering. <i>Vacuum</i> , <b>2019</b> , 170, 108980	3.7	11
59	On the possibility of soft matter nanostructure formation based on mesoporous aluminum hydroxide. Prospects for biomedical applications. <i>Physical Mesomechanics</i> , <b>2017</b> , 20, 134-141	1.6	11
58	Chemical behaviour of Al/Cu nanoparticles in water. <i>Progress in Natural Science: Materials International</i> , <b>2015</b> , 25, 1-5	3.6	11
57	Synthesis of Al <sub>2</sub> O <sub>3</sub> and Al/AlN Nanoparticle Composites Via Electric Explosion of Wires. <i>Russian Physics Journal</i> , <b>2016</b> , 59, 422-429	0.7	11
56	Synthesis of CuO/ZnO composite nanoparticles by electrical explosion of wires and their antibacterial activities. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 13209-13216	2.1	10
55	Preparation of aluminum hydroxide and oxide nanostructures with controllable morphology by wet oxidation of AlN/Al nanoparticles. <i>Materials Research Bulletin</i> , <b>2018</b> , 104, 97-103	5.1	10
54	Design of antimicrobial composite nanoparticles Zn <sub>x</sub> Me(100-x)/O by electrical explosion of two wires in the oxygen-containing atmosphere. <i>Materials and Design</i> , <b>2019</b> , 183, 108099	8.1	9
53	Cellulose acetate fibres surface modified with ALOOH/Cu particles: synthesis, characterization and antimicrobial activity. <i>Cellulose</i> , <b>2018</b> , 25, 4487-4497	5.5	8
52	Formation of micro/nanostructured ALOOH hollow spheres from aluminum nanoparticles. <i>Nanotechnologies in Russia</i> , <b>2015</b> , 10, 858-864	0.6	8
51	Bimetallic AlAg, AlCu and AlZn nanoparticles with controllable phase compositions prepared by the electrical explosion of two wires. <i>Powder Technology</i> , <b>2020</b> , 372, 136-147	5.2	7

50	The formation of Fe Cu composite based on bimetallic nanoparticles. <i>Vacuum</i> , <b>2019</b> , 159, 441-446	3.7	6
49	The Influence of Precursor Disaggregation During Synthesis of Low-Dimensional ALOOH Structures on their Morphology. <i>Russian Physics Journal</i> , <b>2015</b> , 57, 1669-1675	0.7	5
48	Synthesis and antibacterial activity of cellulose acetate sheets modified with flower-shaped ALOOH/Ag. <i>Cellulose</i> , <b>2020</b> , 27, 6663-6676	5.5	5
47	Cytotoxicity of oxidation products of Al nanoparticles to Neuro-2a and L929 cells <b>2015</b> ,		5
46	Bimetallic AgCu nanoparticles interaction with lipid and lipopolysaccharide membranes. <i>Computational Materials Science</i> , <b>2020</b> , 173, 109396	3.2	5
45	Synthesis of Fe/Fe <sub>3</sub> O <sub>4</sub> core-shell nanoparticles by electrical explosion of the iron wire in an oxygen-containing atmosphere. <i>Journal of Nanoparticle Research</i> , <b>2021</b> , 23, 1	2.3	5
44	Acid-base and adsorption properties of the ALOOH 2D nanostructures as factors for regulating parameters of model biological solutions. <i>Nanotechnologies in Russia</i> , <b>2016</b> , 11, 506-511	0.6	4
43	Structural-Phase States of FeCu and FeAg Bimetallic Particles Produced by Electric Explosion of Two Wires. <i>Russian Physics Journal</i> , <b>2018</b> , 61, 14-18	0.7	4
42	Specific features of aluminum nanoparticle water and wet air oxidation <b>2015</b> ,		4
41	Effect of low-dimensional alumina structures on viability of L 929 cells <b>2015</b> ,		4
40	Structural, Mechanical, and Tribological Characterization of Magnetic Pulse Compacted FeCu Bimetallic Particles Produced by Electric Explosion of Dissimilar Metal Wires. <i>Metals</i> , <b>2019</b> , 9, 1287	2.3	4
39	Design and Preparation of SilverCopper Nanoalloys for Antibacterial Applications. <i>Journal of Cluster Science</i> , <b>2021</b> , 32, 779-786	3	4
38	Patterns of the Formation of Antimicrobial Micro/Nanocomposites during the Oxidation of Bimetallic Al/Zn Nanoparticles. <i>Russian Journal of Physical Chemistry A</i> , <b>2018</b> , 92, 2530-2534	0.7	4
37	Molecular dynamics study of bimetallic FeCu Janus nanoparticles formation by electrical explosion of wires. <i>Philosophical Magazine</i> , <b>2019</b> , 99, 1121-1138	1.6	3
36	New approach to production of antimicrobial Al <sub>2</sub> O <sub>3</sub> -Ag nanocomposites by electrical explosion of two wires. <i>Materials Research Bulletin</i> , <b>2019</b> , 119, 110545	5.1	3
35	Synthesis of low-size flower-like ALOOH structures <b>2014</b> ,		3
34	Antimicrobial activity of nanostructured composites produced in Al/Zn nanoparticle oxidation in aqueous-alcoholic solutions <b>2014</b> ,		3
33	Adsorption of negative eosin ions, Tannin molecules, and latex spheres on aluminum oxohydroxide nanofibers. <i>Russian Journal of Applied Chemistry</i> , <b>2009</b> , 82, 581-586	0.8	3

32	Investigation of Characteristics of Alloys Manufactured by Shock-Wave Compaction on Bimetallic Fe-Cu Powders. <i>Russian Physics Journal</i> , <b>2018</b> , 61, 949-954	0.7	3
31	Synthesis of Bimetal FePb Janus Nanoparticles via the Electric Explosion of Iron and Lead Conductors. <i>Inorganic Materials: Applied Research</i> , <b>2019</b> , 10, 699-705	0.6	2
30	Explosive Compaction of Bimetallic Nonconjugated Nanoparticles in Synthesis of Composite Materials. <i>Russian Physics Journal</i> , <b>2019</b> , 61, 2142-2143	0.7	2
29	Formation regularities of AlOOH hollow spheres during aluminum nanopowder water oxidation <b>2015</b> ,		2
28	Synthesis, Properties, and Antimicrobial Activity of AlOOH <sub>n</sub> ZnO <sub>n</sub> DH Nanostructures. <i>Russian Journal of Physical Chemistry A</i> , <b>2021</b> , 95, 1043-1050	0.7	2
27	Iron oxide and gold nanoparticles in cancer therapy <b>2016</b> ,		2
26	Synthesis of W-Cu composite nanoparticles by the electrical explosion of two wires and their consolidation by spark plasma sintering. <i>Materials Research Express</i> , <b>2019</b> , 6, 126519	1.7	2
25	Effect of the Morphology of Al <sub>2</sub> O <sub>3</sub> Nanosized Particles on Their Adsorption Properties. <i>Russian Journal of Physical Chemistry A</i> , <b>2020</b> , 94, 806-809	0.7	2
24	Formation of Structural-Phase States in AgCu Bimetallic Nanoparticles Produced By Electrical Explosion of Wires. <i>Russian Physics Journal</i> , <b>2021</b> , 63, 1557-1561	0.7	2
23	Cold Sintering of FeAg and FeCu Nanocomposites by Consolidation in the High-Pressure Gradient. <i>Russian Journal of Non-Ferrous Metals</i> , <b>2019</b> , 60, 162-168	0.8	1
22	Cold Sintering of NiAg Nanocomposite Particles Produced by Electric Explosion of Wires. <i>Inorganic Materials: Applied Research</i> , <b>2019</b> , 10, 691-698	0.6	1
21	Oxidation and oxidation products of encapsulated aluminum nanopowders. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	1
20	Role of metal oxide nanostructures in extracellular pH regulations <b>2016</b> ,		1
19	Modification of the polymer fiber surface by dielectric barrier discharge for adhesion of aluminum oxyhydroxide particles. <i>Russian Physics Journal</i> , <b>2013</b> , 56, 384-388	0.7	1
18	Investigation of porous structure of SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> aerogel by the method of low-temperature adsorption of nitrogen and high-resolution spectroscopy <b>2015</b> ,		1
17	Adsorption of microorganisms and bacterial endotoxin on modified polymer fibers. <i>Inorganic Materials: Applied Research</i> , <b>2011</b> , 2, 488-492	0.6	1
16	Hierarchical Al <sub>2</sub> O <sub>3</sub> : From Pure Phase to Nanocomposites. <i>Recent Patents on Nanotechnology</i> , <b>2020</b> , 14, 92-101	1.2	1
15	Application of Crumpled Aluminum Hydroxide Nanostructures for Cancer Treatment. <i>Springer Tracts in Mechanical Engineering</i> , <b>2021</b> , 211-223	0.3	1

14	Synergistic effect of antitumor activity of doxorubicin and bicomponent nanostructures based on aluminum oxide. <i>Siberian Journal of Oncology</i> , <b>2020</b> , 19, 82-89	0.3	1
13	Application of hierarchical nanostructured aluminum oxyhydroxide for bleeding control <b>2019</b> ,		1
12	AlOOH-Ag nanostructure formation in water oxidation of Al/Ag binary nanoparticles <b>2018</b> ,		1
11	THE ROLE OF EPITHELIAL-TO-MESENCHYMAL TRANSITION AND AUTOPHAGY IN ANTITUMORAL RESPONSE OF MELANOMA CELL LINES TO TARGET INHIBITION OF MEK AND mTOR KINASES. <i>Siberian Journal of Oncology</i> , <b>2019</b> , 18, 64-70	0.3	0
10	Synthesis of Ta/Cu Bimetallic Nanoparticles and the Bulk Composite with Antimicrobial Activity. <i>Inorganic Materials: Applied Research</i> , <b>2021</b> , 12, 755-761	0.6	0
9	Structure, Morphology, and Antibacterial Properties of Mesoporous AlOOH/Metal Nanocomposites. <i>Inorganic Materials: Applied Research</i> , <b>2021</b> , 12, 767-775	0.6	0
8	Estimation of the influence of porous nanostructured materials on blood chemistry values. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 447, 012072	0.4	0
7	Ag/Cu/PMMA Nanocomposites Produced By Modification of PMMA with Bimetallic EEW-Nanoparticles. <i>Russian Physics Journal</i> , <b>2020</b> , 63, 926-931	0.7	
6	Cold sintering of Fe-Ag and Fe-Cu by consolidation in high pressure gradient. <i>Russian Journal of Non-Ferrous Metals</i> , <b>2019</b> , 67-74	0.1	
5	New magnetic bimetallic yabus-like Ag-Fe nanoparticles for antitumine therapy. <i>Siberian Journal of Oncology</i> , <b>2019</b> , 18, 65-70	0.3	
4	Synthesis and antimicrobial activity of composite oxides nanoparticles based on ZnO. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 684, 012012	0.4	
3	Influence of Morphology and Textural Characteristics of Al <sub>2</sub> O <sub>3</sub> Nanostructures on the Potentiation of Doxorubicin. <i>Journal of Cluster Science</i> , 1	3	
2	Synthesis, characterization and properties of porous micro/nanostructures obtained by oxidizing aluminum nanoparticles with water in the presence of glass fibers. <i>Materials Research Express</i> , <b>2018</b> , 5, 115011	1.7	
1	CYTOTOXIC PROPERTIES OF NANOSTRUCTURES BASED ON ALUMINUM OXIDE AND HYDROXIDE PHASES IN RELATION TO TUMOR CELLS. <i>Siberian Journal of Oncology</i> , <b>2021</b> , 20, 73-83	0.3	