

Sergey M Zharkov

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105
papers

644
citations

14
h-index

19
g-index

118
ext. papers

770
ext. citations

2.4
avg, IF

4.03
L-index

#	Paper	IF	Citations
105	Oxidation of Ag nanoparticles in aqueous media: Effect of particle size and capping. <i>Applied Surface Science</i> , 2014 , 297, 75-83	6.7	51
104	Formation of bimetallic Au-Pd and Au-Pt nanoparticles under hydrothermal conditions and microwave irradiation. <i>Langmuir</i> , 2011 , 27, 11697-703	4	33
103	Electron microscopy studies of FCC carbon particles. <i>Carbon</i> , 1998 , 36, 595-597	10.4	32
102	Magnetic-field- and bias-sensitive conductivity of a hybrid Fe/SiO ₂ /p-Si structure in planar geometry. <i>Journal of Applied Physics</i> , 2011 , 109, 123924	2.5	31
101	The influence of oxygen concentration on the formation of CuO and Cu ₂ O crystalline phases during the synthesis in the plasma of low pressure arc discharge. <i>Vacuum</i> , 2016 , 128, 123-127	3.7	23
100	Study of the structural and magnetic characteristics of epitaxial Fe ₃ Si/Si(111) films. <i>JETP Letters</i> , 2014 , 99, 527-530	1.2	23
99	Solid state synthesis and characterization of Fe ₃ O ₄ /Fe ₂ O ₃ ferromagnetic nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2015 , 636, 223-228	5.7	19
98	Preparation and characterization of colloidal copper xanthate nanoparticles. <i>New Journal of Chemistry</i> , 2016 , 40, 3059-3065	3.6	18
97	On the nature of citrate-derived surface species on Ag nanoparticles: Insights from X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2018 , 427, 687-694	6.7	15
96	Ultrafine particles derived from mineral processing: A case study of the Pb-Zn sulfide ore with emphasis on lead-bearing colloids. <i>Chemosphere</i> , 2016 , 147, 60-6	8.4	15
95	Study of solid-state reactions and order-disorder transitions in Pd/Fe(001) thin films. <i>JETP Letters</i> , 2014 , 99, 405-409	1.2	15
94	Study of morphology, magnetic properties, and visible magnetic circular dichroism of Ni nanoparticles synthesized in SiO ₂ by ion implantation. <i>Physical Review B</i> , 2013 , 87,	3.3	15
93	Dependence of magnetic properties on ferromagnetic layer thickness in trilayer Co/Ge/Co films with granular semiconducting spacer. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 306, 218-222	2.8	15
92	Systematic experimental investigation of filtration losses of drilling fluids containing silicon oxide nanoparticles. <i>Journal of Natural Gas Science and Engineering</i> , 2019 , 71, 102984	4.6	14
91	Thermite synthesis and characterization of Co ₃ O ₄ /Fe ₂ O ₃ ferromagnetic nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2016 , 665, 197-203	5.7	12
90	Formation of NiAl Shape Memory Alloy Thin Films by a Solid-State Reaction. <i>Solid State Phenomena</i> , 2008 , 138, 377-384	0.4	12
89	L10 ordered phase formation at solid state reactions in Cu/Au and Fe/Pd thin films. <i>Journal of Solid State Chemistry</i> , 2019 , 269, 36-42	3.3	12

88	Magnetic and magneto-optical properties of Fe ₃ O ₄ nanoparticles modified with Ag. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 493, 165692	2.8	11
87	Solid-State Reactions in Fe/Si Multilayer Nanofilms. <i>Solid State Phenomena</i> , 2014 , 215, 144-149	0.4	10
86	Electron-beam-initiated crystallization of iron-carbon films. <i>Physics of the Solid State</i> , 2004 , 46, 969-974	0.8	10
85	Stress and growth of Ag monolayers on a Fe(100) whisker. <i>Physical Review B</i> , 2003 , 68,	3.3	10
84	Formation of the atomically ordered L10 structure with the [001] orientation during the solid-state reaction in Fe/Pd bilayer thin films. <i>Physics of the Solid State</i> , 2017 , 59, 1233-1237	0.8	9
83	FMR and TEM Studies of Co and Ni Nanoparticles Implanted in the SiO ₂ Matrix. <i>Applied Magnetic Resonance</i> , 2011 , 40, 363-375	0.8	9
82	Colloidal and Immobilized Nanoparticles of Lead Xanthates. <i>ACS Omega</i> , 2019 , 4, 11472-11480	3.9	8
81	Quick ellipsometric technique for determining the thicknesses and optical constant profiles of Fe/SiO ₂ /Si(100) nanostructures during growth. <i>Technical Physics</i> , 2012 , 57, 1225-1229	0.5	8
80	In Situ Electron Diffraction and Resistivity Characterization of Solid State Reaction Process in Cu/Al Bilayer Thin Films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1428-1436	2.3	8
79	Heterostructures based on Pd/Au nanoparticles and cobalt phthalocyanine for hydrogen chemiresistive sensors. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19682-19692	6.7	8
78	Structural Phase Transformations in Al/Pt Bilayer Thin Films during the Solid-State Reaction. <i>Physics of the Solid State</i> , 2018 , 60, 1413-1418	0.8	8
77	Structural Phase Transformations during a Solid-State Reaction in a Bilayer Al/Fe Thin-Film Nanosystem. <i>Physics of the Solid State</i> , 2020 , 62, 200-205	0.8	7
76	Monitoring MCM-41 synthesis by X-ray mesostructure analysis. <i>Microporous and Mesoporous Materials</i> , 2014 , 195, 21-30	5.3	7
75	Structural and magnetic resonance investigations of CuCr ₂ S ₄ nanoclusters and nanocrystals. <i>Journal of Applied Physics</i> , 2014 , 116, 054302	2.5	7
74	Change in the particle size of highly dispersed palladium black in hydrochloric acid solutions at elevated temperatures. <i>Russian Journal of Physical Chemistry A</i> , 2007 , 81, 1303-1306	0.7	7
73	Bio-functionalization of phyto-genic Ag and ZnO nanobactericides onto cellulose films for bactericidal activity against multiple drug resistant pathogens. <i>Journal of Microbiological Methods</i> , 2019 , 159, 42-50	2.8	7
72	The Influence of CuO Dopant Nanoparticles, Prepared via the Arc Plasma Synthesis Method, on the Critical Current of YBa ₂ Cu ₃ O _{7-x} Composites. <i>Inorganic Materials: Applied Research</i> , 2019 , 10, 999-1002	0.6	6
71	Template synthesis of CMK-3 nanostructured carbon material and study of its properties. <i>Glass Physics and Chemistry</i> , 2014 , 40, 79-87	0.7	6

70	Colloidal and Deposited Products of the Interaction of Tetrachloroauric Acid with Hydrogen Selenide and Hydrogen Sulfide in Aqueous Solutions. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 492	2.4	6
69	Exchange bias in graphitic C/Co composites. <i>Carbon</i> , 2017 , 114, 642-648	10.4	5
68	Characterization of the iron oxide phases formed during the synthesis of core-shell FeO@C nanoparticles modified with Ag. <i>Nanotechnology</i> , 2020 , 31, 395703	3.4	5
67	Bio-hybridization of nanobactericides with cellulose films for effective treatment against members of ESKAPE multi-drug-resistant pathogens. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 1101-1110	3.3	5
66	Effect of visible and UV irradiation on the aggregation stability of CdTe quantum dots. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	5
65	Synthesis and magnetic states of cobalt in three-layer Co/Ge/Co films. <i>Physics of the Solid State</i> , 2014 , 56, 302-309	0.8	5
64	The effect of microstructural features on the ferromagnetism of nickel oxide nanoparticles synthesized in a low-pressure arc plasma. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114352	3	5
63	Formation, evolution and characteristics of copper sulfide nanoparticles in the reactions of aqueous cupric and sulfide ions. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123600	4.4	5
62	Iron silicide-based ferromagnetic metal/semiconductor nanostructures. <i>Physics of the Solid State</i> , 2016 , 58, 2277-2281	0.8	4
61	Fe-induced enhancement of antiferromagnetic spin correlations in Mn ₂ FexBO ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 90-99	2.8	4
60	The effect of silver ions electrolytically introduced into colloidal nanodiamond solution on its viscosity and thermal conductivity. <i>Colloid Journal</i> , 2017 , 79, 258-263	1.1	3
59	Giant hydrogen effect on the structure and physical properties of ZnO and Co-doped ZnO films fabricated by the RF magnetron sputtering in Ar + H ₂ atmosphere. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 489, 165461	2.8	3
58	Formation of Phases and Microstructure of ZnO and TiO ₂ Based Ceramic. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2015 , 72, 242-245	0.6	3
57	Effects of processing parameters on the morphology, structure, and magnetic properties of Cu _{1-x} FexCr ₂ Se ₄ nanoparticles synthesized with chemical methods. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 887-895	5.7	3
56	Agglomeration behavior of lipid-capped gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	3
55	Controlling the microporosity of SBA-15 silicate material by background salt solution. <i>Glass Physics and Chemistry</i> , 2014 , 40, 69-78	0.7	3
54	Redox potentials of gold-palladium powders in aqueous solutions of H ₂ PdCl ₄ . <i>Russian Journal of Physical Chemistry A</i> , 2012 , 86, 484-488	0.7	3
53	Microstructure and magneto-optics of silicon oxide with implanted nickel nanoparticles. <i>Journal of Experimental and Theoretical Physics</i> , 2011 , 113, 1040-1049	1	3

52	Nickel-containing carbon nanotubes and nanoparticles prepared in a high-frequency arc plasma. <i>Physics of the Solid State</i> , 2009 , 51, 1972-1975	0.8	3
51	Microstructure and properties of Co-Sm-O nanogranular films. <i>Physics of the Solid State</i> , 2003 , 45, 2303-2308	3.3	3
50	New titania-based photocatalysts for hydrogen production from aqueous-alcoholic solutions of methylene blue.. <i>RSC Advances</i> , 2020 , 10, 34137-34148	3.7	3
49	Hybrid Nanoparticles Based on Cobalt Ferrite and Gold: Preparation and Characterization. <i>Metals</i> , 2021 , 11, 705	2.3	3
48	Structure and physical properties of hydrogenated (Co + Al)-doped ZnO films: Comparative study with co-doped ZnO films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 264, 114943	3.1	3
47	Amino-Functionalized FeO@SiO Core-Shell Magnetic Nanoparticles for Dye Adsorption. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
46	Effect of the Structural Properties on the Electrical Resistivity of the Al/Ag Thin Films during the Solid-State Reaction. <i>Physics of the Solid State</i> , 2020 , 62, 708-713	0.8	2
45	Magnetic circular dichroism of CdTe nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 980-983	2.3	2
44	Magnetic resonance studies of mixed chalcospinel $\text{CuCr}_2\text{S}_x\text{Se}_{4-x}$ ($x = 0; 2$) and $\text{Co}_x\text{Cu}_{1-x}\text{Cr}_2\text{S}_4$ ($x = 0.1; 0.2$) nanocrystals with strong interparticle interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 297-305	2.8	2
43	Analysis of the structure and magnetic properties of an interface in multilayered (Fe/Si) N nanostructures with the surface-sensitive XMCD method. <i>JETP Letters</i> , 2014 , 99, 706-711	1.2	2
42	Magnetic resonance in a Cu-Cr-S structure. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 879-884	1	2
41	In situ electron microscopy investigations of solid-state synthesis in Al/Au thin bilayer films. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013 , 77, 1004-1007	0.4	2
40	Neutron investigations of the magnetic properties of $\text{Fe}_x\text{Mn}_{1-x}\text{S}$ under pressure up to 4.2 GPa. <i>JETP Letters</i> , 2017 , 106, 498-502	1.2	2
39	Particular Characteristics of the Synthesis of Titanium Nitride Nanopowders in the Plasma of Low Pressure Arc Discharge. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 255, 012006	0.4	2
38	Solid-state synthesis and atomic ordering in thin Cu/Au films (atomic ratio, Cu : Au = 3 : 1). <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 1149-1151	0.4	2
37	Synthesis and magneto-optical properties of nanogranular Co-Ti-O films. <i>Physics of the Solid State</i> , 2009 , 51, 1866-1869	0.8	2
36	Crystalline texture and magnetic anisotropy of Co-P films prepared by chemical deposition. <i>Physics of Metals and Metallography</i> , 2007 , 103, 466-469	1.2	2
35	Iron-Fullerene Clusters. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 499-502	1.8	2

34	Formation of tetrahedrally close-packed structures in Tb-Fe and Co-Pd nanocrystalline films. <i>Physics of the Solid State</i> , 2002 , 44, 1117-1121	0.8	2
33	Structural self-organization and the formation of perpendicular magnetic anisotropy in Co ₅₀ Pd ₅₀ nanocrystalline films. <i>Physics of the Solid State</i> , 2001 , 43, 1543-1548	0.8	2
32	In Situ Electron Diffraction Investigation of Solid State Synthesis of Co-In ₂ O ₃ Ferromagnetic Nanocomposite Thin Films. <i>Jom</i> , 2020 , 72, 2139-2145	2.1	2
31	Magnetic circular dichroism in the canted antiferromagnet γ -Fe ₂ O ₃ : Bulk single crystal and nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166208	2.8	2
30	Phytogenic Synthesis of Ag Bionano-Antibiotics Against ESKAPE Drug Resistant Communities in Krasnoyarsk, Siberia. <i>Journal of Cluster Science</i> , 2019 , 30, 589-597	3	2
29	Peculiarities of Intermetallic Phase Formation in the Process of a Solid State Reaction in (Al/Cu) _n Multilayer Thin Films. <i>Jom</i> , 2021 , 73, 580-588	2.1	2
28	Electron spin resonance in Cu _{1-x} Fe _x Cr ₂ Se ₄ nanoparticles synthesized with the thermal decomposition method. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 436, 21-30	2.8	1
27	Magneto-Optics of Cobalt and Nickel Nanoparticles Implanted in SiO ₂ : Comparative Study. <i>Solid State Phenomena</i> , 2014 , 215, 214-217	0.4	1
26	Indium ^{III} oxide films obtained by extraction pyrolysis. <i>Theoretical Foundations of Chemical Engineering</i> , 2015 , 49, 721-725	0.9	1
25	Morphology and Structure of the Interface Layers in Ni/Ge Thin Films. <i>Solid State Phenomena</i> , 2014 , 215, 259-263	0.4	1
24	The thermodynamic characteristics of aggregation of fine-dispersed palladium. <i>Russian Journal of Physical Chemistry A</i> , 2011 , 85, 35-40	0.7	1
23	Cluster structure and superlattices in Co and Fe films. <i>JETP Letters</i> , 1997 , 65, 915-918	1.2	1
22	Study of nanocrystalline nickel films deposited in a nitrogen atmosphere. <i>Technical Physics</i> , 1998 , 43, 1130-1132	0.5	1
21	Structure and the magnetic and magneto-optical properties of Co-Sm-O nanogranular films. <i>Physics of the Solid State</i> , 2008 , 50, 2109-2114	0.8	1
20	Effect of Gas Pressure on the Properties of Electric-Arc Titanium Nitride Powders. <i>Inorganic Materials</i> , 2003 , 39, 271-275	0.9	1
19	The Dependence of the PdCl ₂ /Pd ₀ Electrode Potential on the Dispersity of Metallic Palladium. <i>Russian Journal of Physical Chemistry A</i> , 2008 , 82, 647-650	0.7	1
18	Microstructure and phase composition of the two-phase ceramic synthesized from titanium oxide and zinc oxide. <i>Science of Sintering</i> , 2018 , 50, 173-181	0.7	1
17	Magnetic and Resonance Properties of the Y _{0.5} Sr _{0.5} Cr _{0.5} Mn _{0.5} O ₃ Polycrystal. <i>Physics of the Solid State</i> , 2020 , 62, 1350-1354	0.8	1

16	Pressure-induced metallization of the Mott insulator FeXMn δ S system. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 465, 775-779	2.8	1
15	Valleriite, a Natural Two-Dimensional Composite: X-ray Absorption, Photoelectron, and Mössbauer Spectroscopy, and Magnetic Characterization. <i>ACS Omega</i> , 2021 , 6, 7533-7543	3.9	0
14	Mössbauer and MCD spectroscopy of the Fe ₃ S ₄ nanoparticles synthesized by the thermal decomposition method with two different surfactants. <i>Current Applied Physics</i> , 2021 , 25, 55-61	2.6	0
13	Kinetic study of a solid-state reaction in Ag/Al multilayer thin films by in situ electron diffraction and simultaneous thermal analysis. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159474	5.7	0
12	Induced magnetic anisotropy of Co-P thin films obtained by electroless deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 537, 168129	2.8	0
11	The influence of magnetic field on the rate of cathode erosion at vacuum arc spraying. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 255, 012007	0.4	
10	The investigation of the influence of oxygen concentration in the gas mixture on nanodispersed oxides synthesis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 255, 012008	0.4	
9	Magnetic Resonance in CuCr ₂ S ₄ Nanoclusters and Nanocrystals. <i>Solid State Phenomena</i> , 2015 , 233-234, 542-545	0.4	
8	Synthesis of 6H-SiC single-crystal nanowires in a flow of carbon-silicon high-frequency arc plasma. <i>Physics of the Solid State</i> , 2014 , 56, 2107-2111	0.8	
7	Magneto-optics and magnetic ordering in ferrite nanoparticles in glass doped with iron and rare-earth elements. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 707-709	0.4	
6	Sequence of phase formation during solid-state synthesis in Al/Ni films (Al: Ni = 60: 40 at %). <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007 , 71, 611-613	0.4	
5	Explosive crystallization initiated in nanocrystalline iron-carbon films by an electron beam. <i>Doklady Physics</i> , 2002 , 47, 281-285	0.8	
4	Experimental Study of Transport Coefficients of Aqueous Suspensions of Nanodiamonds. <i>Colloid Journal</i> , 2020 , 82, 705-712	1.1	
3	Magneto-optics of Nanocomposites Based on Iron Chalcogenide Nanoparticles. <i>Solid State Phenomena</i> , 2012 , 160-165	0.4	
2	Ferromagnetic resonance line broadening and shift effect in nanocrystalline thin magnetic films: Relation with crystalline and magnetic structure. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163416	5.7	
1	Investigation of Microstructural Features, Phase Composition, and Magnetic Characteristics of YBCO-Based Composites and Additives of CuO Non-Superconducting Component Prepared in Low-Pressure Arc Discharge Plasma. <i>Inorganic Materials: Applied Research</i> , 2021 , 12, 142-146	0.6	