Sergey M Zharkov

List of Publications by Year in Descending Order

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644 105 14 19 h-index g-index citations papers 118 2.4 4.03 770 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
105	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	
104	Valleriite, a Natural Two-Dimensional Composite: X-ray Absorption, Photoelectron, and Misbauer Spectroscopy, and Magnetic Characterization. <i>ACS Omega</i> , 2021 , 6, 7533-7543	3.9	О
103	Hybrid Nanoparticles Based on Cobalt Ferrite and Gold: Preparation and Characterization. <i>Metals</i> , 2021 , 11, 705	2.3	3
102	MBsbauer and MCD spectroscopy of the Fe3S4 nanoparticles synthesized by the thermal decomposition method with two different surfactants. <i>Current Applied Physics</i> , 2021 , 25, 55-61	2.6	О
101	Heterostructures based on PdAu nanoparticles and cobalt phthalocyanine for hydrogen chemiresistive sensors. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19682-19692	6.7	8
100	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
99	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
98	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	O
97	Amino-Functionalized FeO@SiO Core-Shell Magnetic Nanoparticles for Dye Adsorption. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
96	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
95	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	
94	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
93	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
92	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
91	Experimental Study of Transport Coefficients of Aqueous Suspensions of Nanodiamonds. <i>Colloid Journal</i> , 2020 , 82, 705-712	1.1	
90	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
89	In Situ Electron Diffraction Investigation of Solid State Synthesis of Co-In2O3 Ferromagnetic Nanocomposite Thin Films. <i>Jom</i> , 2020 , 72, 2139-2145	2.1	2

(2018-2020)

88	Magnetic circular dichroism in the canted antiferromagnet Fe2O3: Bulk single crystal and nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166208	2.8	2	
87	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	
86	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	
85	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	
84	Magnetic and Resonance Properties of the Y0.5Sr0.5Cr0.5Mn0.5O3 Polycrystal. <i>Physics of the Solid State</i> , 2020 , 62, 1350-1354	0.8	1	
83	Magnetic and magneto-optical properties of Fe3O4 nanoparticles modified with Ag. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 493, 165692	2.8	11	
82	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	
81	Giant hydrogen effect on the structure and physical properties of ZnO and Co-doped ZnO films fabricated by the RF magnetron sputtering in Ar + H2 atmosphere. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 489, 165461	2.8	3	
80	The Influence of CuO Dopant Nanoparticles, Prepared via the Arc Plasma Synthesis Method, on the Critical Current of YBa2Cu3O7 © Composites. <i>Inorganic Materials: Applied Research</i> , 2019 , 10, 999-1002	0.6	6	
79	Colloidal and Immobilized Nanoparticles of Lead Xanthates. ACS Omega, 2019 , 4, 11472-11480	3.9	8	
78	Bio-functionalization of phytogenic 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	
77	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	
76	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	
75	Agglomeration behavior of lipid-capped gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	3	
74	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	
73	Magnetic resonance studies of mixed chalcospinel CuCr2SxSe4 \overline{B} (x = 0; 2) and CoxCu1 \overline{B} Cr2S4 (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	
72	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	
71	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	

70	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
69	Fe-induced enhancement of antiferromagnetic spin correlations in Mn2\(\mathbb{B}\)FexBO4. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 90-99	2.8	4
68	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
67	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
66	Pressure-induced metallization of the Mott insulator FeXMn1IXS system. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 465, 775-779	2.8	1
65	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
64	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
63	Electron spin resonance in Cu1\(\mathbb{R}\)FexCr2Se4 nanoparticles synthesized with the thermal decomposition method. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 436, 21-30	2.8	1
62	Exchange bias in graphitic C/Co composites. <i>Carbon</i> , 2017 , 114, 642-648	10.4	5
61	Neutron investigations of the magnetic properties of Fe x Mn1 $\mbox{$\mathbb{N}$}$ S under pressure up to 4.2 GPa. <i>JETP Letters</i> , 2017 , 106, 498-502	1.2	2
60	Particular Charactristics 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
59	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	
58	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	
57	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
56	Iron silicide-based ferromagnetic metal/semiconductor nanostructures. <i>Physics of the Solid State</i> , 2016 , 58, 2277-2281	0.8	4
55	The influence of oxygen concentration on the formation of CuO and Cu2O crystalline phases during the synthesis in the plasma of low pressure arc discharge. <i>Vacuum</i> , 2016 , 128, 123-127	3.7	23
54	Preparation and characterization of colloidal copper xanthate nanoparticles. <i>New Journal of Chemistry</i> , 2016 , 40, 3059-3065	3.6	18
53	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

(2014-2016)

52	Thermite synthesis and characterization of CodrO2ferromagnetic nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2016 , 665, 197-203	5.7	12	
51	Solid state synthesis and characterization of Fe🛽rO2 ferromagnetic nanocomposite thin films. Journal of Alloys and Compounds, 2015 , 636, 223-228	5.7	19	
50	Formation of Phases and Microstructure of ZnO and TiO2 Based Ceramic. <i>Glass and Ceramics</i> (English Translation of Steklo I Keramika), 2015 , 72, 242-245	0.6	3	
49	Effects of processing parameters on the morphology, structure, and magnetic properties of Cu1\(NFexCr2Se4 nanoparticles synthesized with chemical methods. \(\text{Journal of Alloys and Compounds, 2015, 650, 887-895 \)	5.7	3	
48	Magnetic Resonance in CuCr2S4 Nanoclusters and Nanocrystals. <i>Solid State Phenomena</i> , 2015 , 233-234, 542-545	0.4		
47	Indium E in oxide films obtained by extraction pyrolysis. <i>Theoretical Foundations of Chemical Engineering</i> , 2015 , 49, 721-725	0.9	1	
46	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	
45	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	
44	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	
43	Monitoring MCM-41 synthesis by X-ray mesostructure analysis. <i>Microporous and Mesoporous Materials</i> , 2014 , 195, 21-30	5.3	7	
42	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	
41	Structural and magnetic resonance investigations of CuCr2S4 nanoclusters and nanocrystals. <i>Journal of Applied Physics</i> , 2014 , 116, 054302	2.5	7	
40	Study of the structural and magnetic characteristics of epitaxial Fe3Si/Si(111) films. <i>JETP Letters</i> , 2014 , 99, 527-530	1.2	23	
39	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	
38	Study of solid-state reactions and order-disorder transitions in Pd/毌e(001) thin films. <i>JETP Letters</i> , 2014 , 99, 405-409	1.2	15	
37	Solid-State Reactions in Fe/Si Multilayer Nanofilms. Solid State Phenomena, 2014 , 215, 144-149	0.4	10	
36	Magneto-Optics of Cobalt and Nickel Nanoparticles Implanted in SiO2: Comparative Study. <i>Solid State Phenomena</i> , 2014 , 215, 214-217	0.4	1	
35	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		

34	Morphology and Structure of the Interface Layers in Ni/Ge Thin Films. <i>Solid State Phenomena</i> , 2014 , 215, 259-263	0.4	1
33	Magnetic resonance in a Cu-Cr-S structure. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 879-884	1	2
32	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
31	Study of morphology, magnetic properties, and visible magnetic circular dichroism of Ni nanoparticles synthesized in SiO2 by ion implantation. <i>Physical Review B</i> , 2013 , 87,	3.3	15
30	Redox potentials of gold-palladium powders in aqueous solutions of H2PdCl4. <i>Russian Journal of Physical Chemistry A</i> , 2012 , 86, 484-488	0.7	3
29	Quick ellipsometric technique for determining the thicknesses and optical constant profiles of Fe/SiO2/Si(100) nanostructures during growth. <i>Technical Physics</i> , 2012 , 57, 1225-1229	0.5	8
28	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
27	Magnetic-field- and bias-sensitive conductivity of a hybrid Fe/SiO2/p-Si structure in planar geometry. <i>Journal of Applied Physics</i> , 2011 , 109, 123924	2.5	31
26	Formation of bimetallic Au-Pd and Au-Pt nanoparticles under hydrothermal conditions and microwave irradiation. <i>Langmuir</i> , 2011 , 27, 11697-703	4	33
25	The thermodynamic characteristics of aggregation of fine-dispersed palladium. <i>Russian Journal of Physical Chemistry A</i> , 2011 , 85, 35-40	0.7	1
24	Microstructure and magnetooptics of silicon oxide with implanted nickel nanoparticles. <i>Journal of Experimental and Theoretical Physics</i> , 2011 , 113, 1040-1049	1	3
23	Magnetooptics 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	
22	FMR and TEM Studies of Co and Ni Nanoparticles Implanted in the SiO2 Matrix. <i>Applied Magnetic Resonance</i> , 2011 , 40, 363-375	0.8	9
21	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
20	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
19	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
18	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
17	The Dependence of the PdCl2½/Pd0 Electrode Potential on the Dispersity of Metallic Palladium. <i>Russian Journal of Physical Chemistry A</i> , 2008 , 82, 647-650	0.7	1

LIST OF PUBLICATIONS

16	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
15	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
14	Sequence of phase formation during solid-state synthesis in Al/Ni films (Al: Ni = 60: 40 at %). Bulletin of the Russian Academy of Sciences: Physics, 2007 , 71, 611-613	0.4	
13	Iron-Fullerene Clusters. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 499-502	1.8	2
12	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
11	Electron-beam-initiated crystallization of iron-carbon films. <i>Physics of the Solid State</i> , 2004 , 46, 969-974	0.8	10
10	Effect of Gas Pressure on the Properties of Electric-Arc Titanium Nitride Powders. <i>Inorganic Materials</i> , 2003 , 39, 271-275	0.9	1
9	Microstructure and properties of Co-Sm-O nanogranular films. <i>Physics of the Solid State</i> , 2003 , 45, 2303-	2388	3
8	Stress and growth of Ag monolayers on a Fe(100) whisker. <i>Physical Review B</i> , 2003 , 68,	3.3	10
7	Explosive crystallization initiated in nanocrystalline iron-carbon films by an electron beam. <i>Doklady Physics</i> , 2002 , 47, 281-285	0.8	
6	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
5	Structural self-organization and the formation of perpendicular magnetic anisotropy in Co50Pd50 nanocrystalline films. <i>Physics of the Solid State</i> , 2001 , 43, 1543-1548	0.8	2
4	Electron microscopy studies of FCC carbon particles. <i>Carbon</i> , 1998 , 36, 595-597	10.4	32
3	Study of nanocrystalline nickel films deposited in a nitrogen atmosphere. <i>Technical Physics</i> , 1998 , 43, 1130-1132	0.5	1
2	Cluster structure and superlattices in Co and Fe films. <i>JETP Letters</i> , 1997 , 65, 915-918	1.2	1
1	Magnetooptics of Nanocomposites Based on Iron Chalcogenide Nanoparticles. <i>Solid State Phenomena</i> ,312, 160-165	0.4	