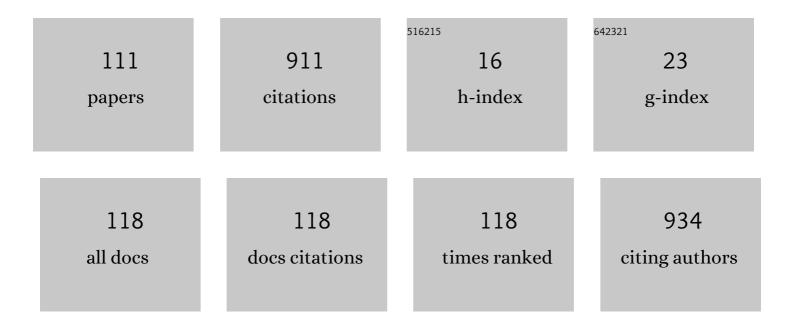
## Sergey M Zharkov

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Oxidation of Ag nanoparticles in aqueous media: Effect of particle size and capping. Applied Surface Science, 2014, 297, 75-83.	3.1	61
2	Formation of Bimetallic Au–Pd and Au–Pt Nanoparticles under Hydrothermal Conditions and Microwave Irradiation. Langmuir, 2011, 27, 11697-11703.	1.6	40
3	Systematic experimental investigation of filtration losses of drilling fluids containing silicon oxide nanoparticles. Journal of Natural Gas Science and Engineering, 2019, 71, 102984.	2.1	34
4	Electron microscopy studies of FCC carbon particles. Carbon, 1998, 36, 595-597.	5.4	33
5	Magnetic-field- and bias-sensitive conductivity of a hybrid Fe/SiO2/p-Si structure in planar geometry. Journal of Applied Physics, 2011, 109, .	1.1	33
6	Study of the structural and magnetic characteristics of epitaxial Fe3Si/Si(111) films. JETP Letters, 2014, 99, 527-530.	0.4	25
7	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. Vacuum, 2016, 128, 123-127.	1.6	25
8	Solid state synthesis and characterization of Fe–ZrO2 ferromagnetic nanocomposite thin films. Journal of Alloys and Compounds, 2015, 636, 223-228.	2.8	22
9	Ultrafine particles derived from mineral processing: A case study of the Pb–Zn sulfide ore with emphasis on lead-bearing colloids. Chemosphere, 2016, 147, 60-66.	4.2	21
10	Study of solid-state reactions and order-disorder transitions in Pd/α-Fe(001) thin films. JETP Letters, 2014, 99, 405-409.	0.4	19
11	Preparation and characterization of colloidal copper xanthate nanoparticles. New Journal of Chemistry, 2016, 40, 3059-3065.	1.4	19
12	On the nature of citrate-derived surface species on Ag nanoparticles: Insights from X-ray photoelectron spectroscopy. Applied Surface Science, 2018, 427, 687-694.	3.1	19
13	Amino-Functionalized Fe3O4@SiO2 Core-Shell Magnetic Nanoparticles for Dye Adsorption. Nanomaterials, 2021, 11, 2371.	1.9	19
14	Thermite synthesis and characterization of Co–ZrO2ferromagnetic nanocomposite thin films. Journal of Alloys and Compounds, 2016, 665, 197-203.	2.8	18
15	Magnetic and magneto-optical properties of Fe3O4 nanoparticles modified with Ag. Journal of Magnetism and Magnetic Materials, 2020, 493, 165692.	1.0	18
16	L10 ordered phase formation at solid state reactions in Cu/Au and Fe/Pd thin films. Journal of Solid State Chemistry, 2019, 269, 36-42.	1.4	17
17	Study of morphology, magnetic properties, and visible magnetic circular dichroism of Ni nanoparticles synthesized in SiO <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:msub><mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> by ion implantation. Physical Review B. 2013. 87	1.1	16
18	Dependence of magnetic properties on ferromagnetic layer thickness in trilayer Co/Ge/Co films with granular semiconducting spacer. Journal of Magnetism and Magnetic Materials, 2006, 306, 218-222.	1.0	15

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19	Formation of NiAl Shape Memory Alloy Thin Films by a Solid-State Reaction. Solid State Phenomena, 2008, 138, 377-384.	0.3	14
20	<i></i> Solid-State Reactions in Fe/Si Multilayer Nanofilms. Solid State Phenomena, 0, 215, 144-149.	0.3	14
21	Formation, evolution and characteristics of copper sulfide nanoparticles in the reactions of aqueous cupric and sulfide ions. Materials Chemistry and Physics, 2020, 255, 123600.	2.0	14
22	Bio-functionalization of phytogenic Ag and ZnO nanobactericides onto cellulose films for bactericidal activity against multiple drug resistant pathogens. Journal of Microbiological Methods, 2019, 159, 42-50.	0.7	13
23	In Situ Electron Diffraction and Resistivity Characterization of Solid State Reaction Process in Cu/Al Bilayer Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1428-1436.	1.1	13
24	Stress and growth of Ag monolayers on a Fe(100) whisker. Physical Review B, 2003, 68, .	1.1	12
25	Electron-beam-initiated crystallization of iron-carbon films. Physics of the Solid State, 2004, 46, 969-974.	0.2	12
26	FMR and TEM Studies of Co and Ni Nanoparticles Implanted in the SiO2 Matrix. Applied Magnetic Resonance, 2011, 40, 363-375.	0.6	12
27	Formation of the atomically ordered L10 structure with the [001] orientation during the solid-state reaction in Fe/Pd bilayer thin films. Physics of the Solid State, 2017, 59, 1233-1237.	0.2	12
28	Structural Phase Transformations in Al/Pt Bilayer Thin Films during the Solid-State Reaction. Physics of the Solid State, 2018, 60, 1413-1418.	0.2	12
29	Heterostructures based on Pd–Au nanoparticles and cobalt phthalocyanine for hydrogen chemiresistive sensors. International Journal of Hydrogen Energy, 2021, 46, 19682-19692.	3.8	12
30	Bio-hybridization of nanobactericides with cellulose films for effective treatment against members of ESKAPE multi-drug-resistant pathogens. Applied Nanoscience (Switzerland), 2018, 8, 1101-1110.	1.6	11
31	Structural Phase Transformations during a Solid-State Reaction in a Bilayer Al/Fe Thin-Film Nanosystem. Physics of the Solid State, 2020, 62, 200-205.	0.2	11
32	Carbon Double Coated Fe3O4@C@C Nanoparticles: Morphology Features, Magnetic Properties, Dye Adsorption. Nanomaterials, 2022, 12, 376.	1.9	11
33	Monitoring MCM-41 synthesis by X-ray mesostructure analysis. Microporous and Mesoporous Materials, 2014, 195, 21-30.	2.2	10
34	Colloidal and Deposited Products of the Interaction of Tetrachloroauric Acid with Hydrogen Selenide and Hydrogen Sulfide in Aqueous Solutions. Minerals (Basel, Switzerland), 2018, 8, 492.	0.8	10
35	Magnetic circular dichroism in the canted antiferromagnet α-Fe2O3: Bulk single crystal and nanocrystals. Journal of Magnetism and Magnetic Materials, 2020, 498, 166208.	1.0	10
36	New titania-based photocatalysts for hydrogen production from aqueous-alcoholic solutions of methylene blue. RSC Advances, 2020, 10, 34137-34148.	1.7	9

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37	Characterization of the iron oxide phases formed during the synthesis of core–shell Fe <sub>x</sub> O <sub>y</sub> @C nanoparticles modified with Ag. Nanotechnology, 2020, 31, 395703.	1.3	9
38	Quick ellipsometric technique for determining the thicknesses and optical constant profiles of Fe/SiO2/Si(100) nanostructures during growth. Technical Physics, 2012, 57, 1225-1229.	0.2	8
39	Structural and magnetic resonance investigations of CuCr2S4 nanoclusters and nanocrystals. Journal of Applied Physics, 2014, 116, .	1.1	8
40	Colloidal and Immobilized Nanoparticles of Lead Xanthates. ACS Omega, 2019, 4, 11472-11480.	1.6	8
41	The effect of microstructural features on the ferromagnetism of nickel oxide nanoparticles synthesized in a low-pressure arc plasma. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114352.	1.3	8
42	Valleriite, a Natural Two-Dimensional Composite: X-ray Absorption, Photoelectron, and Mössbauer Spectroscopy, and Magnetic Characterization. ACS Omega, 2021, 6, 7533-7543.	1.6	8
43	Hybrid Nanoparticles Based on Cobalt Ferrite and Gold: Preparation and Characterization. Metals, 2021, 11, 705.	1.0	8
44	Change in the particle size of highly dispersed palladium black in hydrochloric acid solutions at elevated temperatures. Russian Journal of Physical Chemistry A, 2007, 81, 1303-1306.	0.1	7
45	Template synthesis of CMK-3 nanostructured carbon material and study of its properties. Glass Physics and Chemistry, 2014, 40, 79-87.	0.2	7
46	Synthesis and magnetic states of cobalt in three-layer Co/Ge/Co films. Physics of the Solid State, 2014, 56, 302-309.	0.2	6
47	Effect of visible and UV irradiation on the aggregation stability of CdTe quantum dots. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	6
48	Exchange bias in graphitic C/Co composites. Carbon, 2017, 114, 642-648.	5.4	6
49	Fe-induced enhancement of antiferromagnetic spin correlations in Mn2â^'xFexBO4. Journal of Magnetism and Magnetic Materials, 2018, 452, 90-99.	1.0	6
50	The Influence of CuO Dopant Nanoparticles, Prepared via the Arc Plasma Synthesis Method, on the Critical Current of YBa2Cu3O7 –l´Composites. Inorganic Materials: Applied Research, 2019, 10, 999-1002.	0.1	6
51	In Situ Electron Diffraction Investigation of Solid State Synthesis of Co-In2O3 Ferromagnetic Nanocomposite Thin Films. Jom, 2020, 72, 2139-2145.	0.9	6
52	Synthesis and characterization of nanoscale composite particles formed by 2D layers of Cu–Fe sulfide and Mg-based hydroxide. Journal of Materials Chemistry A, 2022, 10, 9621-9634.	5.2	6
53	Microstructure and properties of Co-Sm-O nanogranular films. Physics of the Solid State, 2003, 45, 2303-2308.	0.2	5
54	Iron silicide-based ferromagnetic metal/semiconductor nanostructures. Physics of the Solid State, 2016, 58, 2277-2281.	0.2	5

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55	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. Journal of Magnetism and Magnetic Materials, 2019, 489, 165461.	1.0	5
56	Structure and physical properties of hydrogenated (CoÂ+ÂAl)-doped ZnO films: Comparative study with co-doped ZnO films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114943.	1.7	5
57	Peculiarities of Intermetallic Phase Formation in the Process of a Solid State Reaction in (Al/Cu)n Multilayer Thin Films. Jom, 2021, 73, 580-588.	0.9	5
58	Kinetic study of a solid-state reaction in Ag/Al multilayer thin films by in situ electron diffraction and simultaneous thermal analysis. Journal of Alloys and Compounds, 2021, 871, 159474.	2.8	5
59	Microstructure and magnetooptics of silicon oxide with implanted nickel nanoparticles. Journal of Experimental and Theoretical Physics, 2011, 113, 1040-1049.	0.2	4
60	Redox potentials of gold-palladium powders in aqueous solutions of H2PdCl4. Russian Journal of Physical Chemistry A, 2012, 86, 484-488.	0.1	4
61	Formation of Phases and Microstructure of ZnO and TiO2 Based Ceramic. Glass and Ceramics (English) Tj ETQq	1 0.7843	314 rgBT /Ove
62	Magnetic resonance studies of mixed chalcospinel CuCr2SxSe4â^'x (x = 0; 2) and CoxCu1â^'xCr2S4 (x =a Materials, 2018, 452, 297-305.	â€ <sup>-</sup> 0.1;) Tj 1.0	ETQq0 0 0 rg 4
63	Induced magnetic anisotropy of Co-P thin films obtained by electroless deposition. Journal of Magnetism and Magnetic Materials, 2021, 537, 168129.	1.0	4
64	Microstructure and phase composition of the two-phase ceramic synthesized from titanium oxide and zinc oxide. Science of Sintering, 2018, 50, 173-181.	0.5	4
65	Structural self-organization and the formation of perpendicular magnetic anisotropy in Co50Pd50 nanocrystalline films. Physics of the Solid State, 2001, 43, 1543-1548.	0.2	3
66	Nickel-containing carbon nanotubes and nanoparticles prepared in a high-frequency arc plasma. Physics of the Solid State, 2009, 51, 1972-1975.	0.2	3
67	In situ electron microscopy investigations of solid-state synthesis in Al/Au thin bilayer films. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1004-1007.	0.1	3
68	Controlling the microporosity of SBA-15 silicate material by background salt solution. Glass Physics and Chemistry, 2014, 40, 69-78.	0.2	3
69	Effects of processing parameters on the morphology, structure, and magnetic properties of Cu1â^'xFexCr2Se4 nanoparticles synthesized with chemical methods. Journal of Alloys and Compounds, 2015, 650, 887-895.	2.8	3
70	The effect of silver ions electrolytically introduced into colloidal nanodiamond solution on its viscosity and thermal conductivity. Colloid Journal, 2017, 79, 258-263.	0.5	3
71	Agglomeration behavior of lipid-capped gold nanoparticles. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	3
72	Effect of the Structural Properties on the Electrical Resistivity of the Al/Ag Thin Films during the Solid-State Reaction. Physics of the Solid State, 2020, 62, 708-713.	0.2	3

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73	Mössbauer and MCD spectroscopy of the Fe3S4 nanoparticles synthesized by the thermal decomposition method with two different surfactants. Current Applied Physics, 2021, 25, 55-61.	1.1	3
74	The Dependence of the PdCl2â^'4/Pd0 Electrode Potential on the Dispersity of Metallic Palladium. Russian Journal of Physical Chemistry A, 2008, 82, 647-650.	0.1	3
75	Heterostructures Based on Cobalt Phthalocyanine Films Decorated with Gold Nanoparticles for the Detection of Low Concentrations of Ammonia and Nitric Oxide. Biosensors, 2022, 12, 476.	2.3	3
76	Formation of tetrahedrally close-packed structures in Tb-Fe and Co-Pd nanocrystalline films. Physics of the Solid State, 2002, 44, 1117-1121.	0.2	2
77	Ironâ€Fullerene Clusters. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 499-502.	1.0	2
78	Crystalline texture and magnetic anisotropy of Co-P films prepared by chemical deposition. Physics of Metals and Metallography, 2007, 103, 466-469.	0.3	2
79	Synthesis and magneto-optical properties of nanogranular Co-Ti-O films. Physics of the Solid State, 2009, 51, 1866-1869.	0.2	2
80	Solid-state synthesis and atomic ordering in thin Cu/Au films (atomic ratio, Cu : Au = 3 : 1). Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1149-1151.	0.1	2
81	Magnetic resonance in a Cu-Cr-S structure. Journal of Experimental and Theoretical Physics, 2013, 117, 879-884.	0.2	2
82	Analysis of the structure and magnetic properties of an interface in multilayered (Fe/Si) N nanostructures with the surface-sensitive XMCD method. JETP Letters, 2014, 99, 706-711.	0.4	2
83	Electron spin resonance in Cu 1â^'x Fe x Cr 2 Se 4 nanoparticles synthesized with the thermal decomposition method. Journal of Magnetism and Magnetic Materials, 2017, 436, 21-30.	1.0	2
84	Neutron investigations of the magnetic properties of Fe x Mn1â^'x S under pressure up to 4.2 GPa. JETP Letters, 2017, 106, 498-502.	0.4	2
85	Particular Charactristics of the Synthesis of Titanium Nitride Nanopowders in the Plasma of Low Pressure Arc Discharge. IOP Conference Series: Materials Science and Engineering, 2017, 255, 012006.	0.3	2
86	Magnetic circular dichroism of CdTe nanoparticles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 980-983.	0.9	2
87	Pressure-induced metallization of the Mott insulator FeXMn1â~'XS system. Journal of Magnetism and Magnetic Materials, 2018, 465, 775-779.	1.0	2
88	Phytogenic Synthesis of Ag Bionano-Antibiotics Against ESKAPE Drug Resistant Communities in Krasnoyarsk, Siberia. Journal of Cluster Science, 2019, 30, 589-597.	1.7	2
89	Magnetic and Resonance Properties of the Y0.5Sr0.5Cr0.5Mn0.5O3 Polycrystal. Physics of the Solid State, 2020, 62, 1350-1354.	0.2	2
90	Experimental Study of Transport Coefficients of Aqueous Suspensions of Nanodiamonds. Colloid Journal, 2020, 82, 705-712.	0.5	2

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#	Article	IF	CITATIONS
91	Cluster structure and superlattices in Co and Fe films. JETP Letters, 1997, 65, 915-918.	0.4	1
92	Study of nanocrystalline nickel films deposited in a nitrogen atmosphere. Technical Physics, 1998, 43, 1130-1132.	0.2	1
93	Effect of Gas Pressure on the Properties of Electric-Arc Titanium Nitride Powders. Inorganic Materials, 2003, 39, 271-275.	0.2	1
94	Structure and the magnetic and magneto-optical properties of Co-Sm-O nanogranular films. Physics of the Solid State, 2008, 50, 2109-2114.	0.2	1
95	The thermodynamic characteristics of aggregation of fine-dispersed palladium. Russian Journal of Physical Chemistry A, 2011, 85, 35-40.	0.1	1
96	Morphology and Structure of the Interface Layers in Ni/Ge Thin Films. Solid State Phenomena, 2014, 215, 259-263.	0.3	1
97	Magneto-Optics of Cobalt and Nickel Nanoparticles Implanted in SiO <sub>2</sub> : Comparative Study. Solid State Phenomena, 2014, 215, 214-217.	0.3	1
98	Indium–tin oxide films obtained by extraction pyrolysis. Theoretical Foundations of Chemical Engineering, 2015, 49, 721-725.	0.2	1
99	The influence of magnetic field on the rate of cathode erosion at vacuum arc spraying. IOP Conference Series: Materials Science and Engineering, 2017, 255, 012007.	0.3	1
100	Contribution of the Multiplicity Fluctuation in the Temperature Dependence of Phonon Spectra of Rare-Earth Cobaltites. Molecules, 2020, 25, 4316.	1.7	1
101	Iron Sulfide Nanoparticles: Preparation, Structure, Magnetic Properties. Journal of Siberian Federal University - Mathematics and Physics, 2017, 10, 244-247.	0.2	1
102	Explosive crystallization initiated in nanocrystalline iron-carbon films by an electron beam. Doklady Physics, 2002, 47, 281-285.	0.2	0
103	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.	0.1	0
104	Magnetooptics and magnetic ordering in ferrite nanoparticles in glass doped with iron and rare-earth elements. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 707-709.	0.1	0
105	Synthesis of 6H-SiC single-crystal nanowires in a flow of carbon-silicon high-frequency arc plasma. Physics of the Solid State, 2014, 56, 2107-2111.	0.2	0
106	Magnetic Resonance in CuCr <sub>2</sub> S <sub>4</sub> Nanoclusters and Nanocrystals. Solid State Phenomena, 2015, 233-234, 542-545.	0.3	0
107	The investigation of the influence of oxygen concentration in the gas mixture on nanodispersed oxides synthesis. IOP Conference Series: Materials Science and Engineering, 2017, 255, 012008.	0.3	0
108	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. Inorganic Materials: Applied Research, 2021, 12, 142-146.	0.1	0

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109	Synthesis, Morphology, and Visible Magnetic Circular dichroism of Ni-C nanoparticles. Journal of Siberian Federal University - Mathematics and Physics, 2016, 9, 481-484.	0.2	0
110	Magnetooptics of Nanocomposites Based on Iron Chalcogenide Nanoparticles. Solid State Phenomena, 0, 312, 160-165.	0.3	0
111	Ferromagnetic resonance line broadening and shift effect in nanocrystalline thin magnetic films: Relation with crystalline and magnetic structure. Journal of Alloys and Compounds, 2022, 900, 163416.	2.8	0