

Sergey I Popkov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7712002/publications.pdf>

Version: 2024-02-01

72
papers

611
citations

623574

14
h-index

713332

21
g-index

72
all docs

72
docs citations

72
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	General Regularities and Differences in the Behavior of the Dynamic Magnetization Switching of Ferrimagnetic (CoFe ₂ O ₄) and Antiferromagnetic (NiO) Nanoparticles. <i>Physics of the Solid State</i> , 2020, 62, 1518-1524.	0.2	4
2	Synthesis and Magnetic Properties of the Core-Shell Fe ₃ O ₄ /CoFe ₂ O ₄ Nanoparticles. <i>Physics of the Solid State</i> , 2020, 62, 285-290.	0.2	6
3	Features of the Pulsed Magnetization Switching in a High-Coercivity Material Based on $\hat{\mu}$ -Fe ₂ O ₃ Nanoparticles. <i>Physics of the Solid State</i> , 2020, 62, 445-453.	0.2	4
4	Physical Properties of a Frustrated Quasi-One-Dimensional NaCuFe ₂ (VO ₄) ₃ Magnet and Effect of Chemical Pressure Induced by the Substitution of Sodium for Lithium. <i>Physics of the Solid State</i> , 2020, 62, 297-307.	0.2	1
5	Forming High-Temperature Superconducting Layers at the Interfaces between Nonsuperconducting Phases. <i>Technical Physics Letters</i> , 2020, 46, 1004-1007.	0.2	0
6	Dynamic Magnetization Switching in NiO Nanoparticles: Pulsed Field Magnetometry Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 405-411.	0.8	6
7	Size effects in the formation of an uncompensated ferromagnetic moment in NiO nanoparticles. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	27
8	Superconductivity on Interfaces of Nonsuperconducting Granules La ₂ CuO ₄ and La _{1.56} Sr _{0.44} CuO ₄ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 3867-3874.	0.8	6
9	Pulsed Field-Induced Magnetization Switching in Antiferromagnetic Ferrihydrite Nanoparticles. <i>Physics of the Solid State</i> , 2018, 60, 1973-1978.	0.2	13
10	Bacterial Ferrihydrite Nanoparticles: Preparation, Magnetic Properties, and Application in Medicine. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 2297-2304.	0.8	29
11	A Capacitive Dilatometer for Measuring the Magnetostriction, Piezoelectric Effect, and Linear Thermal-Expansion Coefficient. <i>Technical Physics Letters</i> , 2018, 44, 123-125.	0.2	4
12	Temperature behavior of the antiferromagnetic susceptibility of nanoferrihydrite from the measurements of the magnetization curves in fields of up to 250 kOe. <i>Physics of the Solid State</i> , 2017, 59, 1940-1946.	0.2	16
13	Magnetic properties of NiO nano particles: Contributions of the antiferromagnetic and ferromagnetic subsystems in different magnetic field ranges up to 250 kOe. <i>Physics of the Solid State</i> , 2017, 59, 1547-1552.	0.2	12
14	Exchange bias in nano-ferrihydrite. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	19
15	Specific features of magnetic properties of ferrihydrite nanoparticles of bacterial origin: A shift of the hysteresis loop. <i>Physics of the Solid State</i> , 2016, 58, 287-292.	0.2	10
16	Pulsed solenoid with nanostructured Cu-Nb wire winding. <i>Journal of Surface Investigation</i> , 2015, 9, 111-115.	0.1	6
17	Positive magnetoresistance of single-crystal bilayer manganites (La _{1-x} Zr _x Nd _z) _{1.4} Sr _{1.6} Mn ₂ O ₇ (z=0, 0.1). <i>Journal of Applied Physics</i> , 2015, 117, 163918.	1.1	3
18	Increase in the magnetization loop width in the Ba _{0.6} K _{0.4} BiO ₃ superconductor: Possible manifestation of phase separation. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 118, 104-110.	0.2	5

#	ARTICLE	IF	CITATIONS
19	Magnetic and dielectric properties of the PbFeBO ₄ single crystal. Journal of Magnetism and Magnetic Materials, 2014, 353, 23-28.	1.0	17
20	Magneto-resistance of porous polycrystalline HTSC: Effect of the transport current on magnetic flux compression in intergranular medium. Physics of the Solid State, 2014, 56, 1542-1547.	0.2	8
21	Current-conducting properties of paper consisting of multiwall carbon nanotubes. Journal of Experimental and Theoretical Physics, 2013, 116, 860-865.	0.2	3
22	Magnetic phase diagram of the olivine-type Mn ₂ GeO ₄ single crystal estimated from magnetic, resonance and thermodynamic properties. Journal of Physics Condensed Matter, 2013, 25, 136003.	0.7	6
23	Specific features in the hysteretic behavior of the magneto-resistance of granular high-temperature superconductors. Physics of the Solid State, 2012, 54, 2155-2164.	0.2	13
24	Relaxation of magneto-resistance of single-crystalline (La _{0.5} Eu _{0.5}) _{0.7} Pb _{0.3} MnO ₃ in a pulsed magnetic field. Technical Physics Letters, 2012, 38, 1080-1082.	0.2	1
25	Magneto-resistance of substituted lanthanum manganites La _{0.7} Ca _{0.3} MnO ₃ upon nonequilibrium overheating of carriers. Journal of Applied Physics, 2011, 109, 083711.	1.1	2
26	General regularities of magneto-resistive effects in the polycrystalline yttrium and bismuth high-temperature superconductor systems. Physics of the Solid State, 2011, 53, 922-932.	0.2	29
27	Current-voltage characteristics of polycrystalline (La _{0.5} Eu _{0.5}) _{0.7} Pb _{0.3} MnO ₃ at low temperatures. Physics of the Solid State, 2011, 53, 2455-2458.	0.2	1
28	Pinning in a porous high-temperature superconductor Bi ₂ 223. Physics of the Solid State, 2011, 53, 2409-2414.	0.2	13
29	Contributions from Inter-grain Boundaries to the Magneto-resistive Effect in Polycrystalline High-T C Superconductors. The Underlying Reason of Different Behavior for YBCO and BSCCO Systems. Journal of Superconductivity and Novel Magnetism, 2011, 24, 2129-2136.	0.8	10
30	Low-temperature resistance and magneto-resistance hysteresis in polycrystalline (La _{0.5} Eu _{0.5}) _{0.7} Pb _{0.3} MnO ₃ . Journal of Applied Physics, 2011, 109, 053711.	1.1	6
31	Compression of a magnetic flux in the intergrain medium of a YBa ₂ Cu ₃ O ₇ granular superconductor from magnetic and magneto-resistive measurements. Journal of Applied Physics, 2011, 110, 093918.	1.1	20
32	Magnetization asymmetry of type-II superconductors in high magnetic fields. Journal of Applied Physics, 2011, 109, .	1.1	40
33	Relaxation of low-temperature magneto-resistance and magnetization of polycrystalline (La _{0.5} Eu _{0.5}) _{0.7} Pb _{0.3} MnO ₃ . Journal Physics D: Applied Physics, 2011, 44, 255001.	1.3	1
34	Low-temperature resistivity of polycrystalline (La _{0.5} Eu _{0.5}) _{0.7} Pb _{0.3} MnO ₃ in a magnetic fields. Journal of Physics: Conference Series, 2010, 200, 052025.	0.3	6
35	Nonmonotonic behavior of magneto-resistance, R(H) hysteresis, and low-temperature heat capacity of the BaPb _{0.75} Bi _{0.25} O ₃ superconductor in a magnetic field: Possible manifestations of phase separation. Journal of Experimental and Theoretical Physics, 2010, 110, 584-593.	0.2	4
36	Asymmetry of magnetization curves of textured BSCCO. Physica C: Superconductivity and Its Applications, 2010, 470, S870-S872.	0.6	0

#	ARTICLE	IF	CITATIONS
37	Non-linear current-voltage characteristics of (La _{0.5} Eu _{0.5}) _{0.7} Pb _{0.3} MnO ₃ single crystals: Possible manifestation of the internal heating of chargecarriers. Physica B: Condensed Matter, 2010, 405, 4961-4965.	1.3	4
38	Magnetoresistance hysteresis of bulk textured Bi _{1.8} Pb _{0.3} Sr _{1.9} Ca ₂ Cu ₃ O _x +Ag ceramics and its anisotropy. Physica C: Superconductivity and Its Applications, 2010, 470, 61-67.	0.6	16
39	Features of the low-temperature specific heat in underdoped YBa ₂ Cu ₃ O ₆ + x single crystals. JETP Letters, 2010, 92, 332-337.	0.4	4
40	Mechanism of the hysteretic behavior of the magnetoresistance of granular HTSCs: The universal nature of the width of the magnetoresistance hysteresis loop. Journal of Experimental and Theoretical Physics, 2009, 108, 241-248.	0.2	28
41	Mechanism of formation of a negative magnetoresistance region in granular high-temperature superconductors. Physics of the Solid State, 2009, 51, 1105-1109.	0.2	13
42	Increase in the diamagnetic response from low-density Bi _{1.8} Pb _{0.3} Sr _{1.9} Ca ₂ Cu ₃ O _x high-temperature superconductors and Bi _{1.8} Pb _{0.3} Sr _{1.9} Ca ₂ Cu ₃ O _x + Ag composites. Technical Physics, 2009, 54, 1130-1134.	0.2	4
43	The effect of magnetisation relaxation of superconducting grains on time relaxation of the resistance of granular HTSC in constant applied magnetic field. Journal of Physics: Conference Series, 2009, 150, 052012.	0.3	0
44	Magnetic Field Dependence of Intergrain Pinning Potential in Bulk Granular Composites YBCO + CuO Demonstrating Large Magneto-Resistive Effect. Journal of Superconductivity and Novel Magnetism, 2008, 21, 243-247.	0.8	10
45	Peculiarities of the time evolution of magnetoresistance of granular HTSC in a constant applied magnetic field. Solid State Communications, 2008, 147, 284-287.	0.9	1
46	Relaxation of the remanent resistance of granular HTSC Y-Ba-Cu-O + CuO composites after magnetic field treatment. Physics of the Solid State, 2008, 50, 1014-1021.	0.2	7
47	Pinning enhancement by heterovalent substitution in Y _{1-x} RE _x Ba ₂ Cu ₃ O _{7-δ} . Superconductor Science and Technology, 2008, 21, 085015.	1.8	11
48	Preparation, microstructure, magnetic and transport properties of bulk textured Bi _{1.8} Pb _{0.3} Sr _{1.9} Ca ₂ Cu ₃ O _x and Bi _{1.8} Pb _{0.3} Sr _{1.9} Ca ₂ Cu ₃ O _x +Ag ceramics. Superconductor Science and Technology, 2008, 21, 105019.	1.8	11
49	Thermally activated dissipation in a novel foamed Bi-based oxide superconductor in magnetic fields. Superconductor Science and Technology, 2007, 20, 491-494.	1.8	17
50	Hysteretic behavior of the magnetoresistance and the critical current of bulk Y _{3/4} Lu _{1/4} Ba ₂ Cu ₃ O ₇ +CuO composites in a magnetic field. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1307-1308.	0.6	1
51	Time relaxation of residual resistance of HTSC-based composites. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1309-1310.	0.6	5
52	Crossover from S to F junctions in composites Y _{3/4} Lu _{1/4} Ba ₂ Cu ₃ O ₇ +Y ₃ (Al _{1-x} Fex) ₅ O ₁₂ . Physica C: Superconductivity and Its Applications, 2007, 460-462, 1311-1312.	0.6	0
53	Magnetoresistance hysteresis in granular HTSCs as a manifestation of the magnetic flux trapped by superconducting grains in YBCO + CuO composites. Journal of Experimental and Theoretical Physics, 2007, 105, 1174-1183.	0.2	27
54	Highly textured bismuth-containing high-temperature superconductor ceramics obtained by uniaxial pressing in liquid medium: Fabrication and properties. Technical Physics Letters, 2007, 33, 740-743.	0.2	3

#	ARTICLE	IF	CITATIONS
55	Current-voltage characteristics of break junctions of high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2007, 467, 80-84.	0.6	4
56	Magnetization loop and critical current of porous Bi-based HTS. Physica C: Superconductivity and Its Applications, 2006, 434, 135-137.	0.6	20
57	Study of current-voltage characteristics of Bi-based high-temperature superconductors with fractal cluster structure. Physica C: Superconductivity and Its Applications, 2006, 435, 19-22.	0.6	4
58	The mechanisms responsible for broadening of the resistive transition under magnetic field in the Josephson junction network realized in bulk YBCO+CuO composites. Physica C: Superconductivity and Its Applications, 2006, 435, 12-15.	0.6	9
59	Current-controlled magneto-resistive effect in bulk Y-Ba-Cu-O + CuO composites and their application as magnetic-field sensors at 77 K. Physics of Metals and Metallography, 2006, 101, S24-S26.	0.3	0
60	Magnetic properties of a low-density Bi-based HTSC. Physics of Metals and Metallography, 2006, 101, S29-S32.	0.3	1
61	Current-voltage characteristics of a foamed Bi _{1.8} Pb _{0.3} Sr ₂ Ca ₂ Cu ₃ O _x high-temperature superconductor with fractal cluster structure. Physics of the Solid State, 2006, 48, 207-212.	0.2	9
62	Mechanisms of dissipation in a Josephson medium based on a high-temperature superconductor in a magnetic field. Physics of the Solid State, 2006, 48, 826-832.	0.2	4
63	Investigation of the Josephson coupling through a magnetoactive barrier (ferrimagnet, paramagnet) in Y ₃ /4Lu ₁ /4Ba ₂ Cu ₃ O ₇ + Y ₃ (Al _{1-x} Fe _x) ₅ O ₁₂ composites. Physics of the Solid State, 2006, 48, 2046-2055.	0.2	0
64	The synthesis, microstructure, transport and magnetic properties of Bi-based low density HTSC. Journal of Materials Processing Technology, 2005, 161, 58-61.	3.1	4
65	Magneto-resistive effect in bulk composites 1-2-3 YBCO + CuO and 1-2-3 YBCO + BaPb _{1-x} Sn _x O ₃ and their application as magnetic field sensors at 77 K. Superconductor Science and Technology, 2004, 17, 175-181.	1.8	20
66	Title is missing!. Journal of Low Temperature Physics, 2003, 130, 347-381.	0.6	1
67	The effect of ferrimagnetic ordering in insulating component of composites HTSC+Yttrium Iron Garnet on its transport properties. Solid State Communications, 2003, 125, 281-285.	0.9	0
68	Controlled magnetoresistance in Y ₃ /4Lu ₁ /4Ba ₂ Cu ₃ O ₇ -CuO composites at 77 K. Technical Physics Letters, 2003, 29, 578-581.	0.2	1
69	Transport and magnetic properties of Y ₃ /4Lu ₁ /4Ba ₂ Cu ₃ O ₇ + Y ₃ Fe ₅ O ₁₂ composites representing a Josephson-type superconductor-ferrimagnet-superconductor weak-link network. Physics of the Solid State, 2003, 45, 1866-1873.	0.2	1
70	Synthesis, microstructure, and the transport and magnetic properties of Bi-containing high-temperature superconductors with a porous structure. Technical Physics Letters, 2003, 29, 986-988.	0.2	14
71	Anomalous transport properties of a paramagnetic NiTiO ₃ + HTSC two-phase system representing a random Josephson junction network. JETP Letters, 2002, 75, 138-141.	0.4	0
72	High-temperature superconductor based composites: Large magnetoresistance in weak magnetic fields. Technical Physics Letters, 2001, 27, 952-955.	0.2	6