

# Sergey I Popkov

## List of Publications by Year in descending order

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docs citations

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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | General Regularities and Differences in the Behavior of the Dynamic Magnetization Switching of Ferrimagnetic (CoFe <sub>2</sub> O <sub>4</sub> ) and Antiferromagnetic (NiO) Nanoparticles. Physics of the Solid State, 2020, 62, 1518-1524.           | 0.6 | 4         |
| 2  | Synthesis and Magnetic Properties of the Core-Shell Fe <sub>3</sub> O <sub>4</sub> /CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles. Physics of the Solid State, 2020, 62, 285-290.   | 0.6 | 6         |
| 3  | Features of the Pulsed Magnetization Switching in a High-Coercivity Material Based on $\mu$ -Fe <sub>2</sub> O <sub>3</sub> Nanoparticles. Physics of the Solid State, 2020, 62, 445-453.  | 0.6 | 4         |
| 4  | Physical Properties of a Frustrated Quasi-One-Dimensional NaCuFe <sub>2</sub> (VO <sub>4</sub> ) <sub>3</sub> Magnet and Effect of Chemical Pressure Induced by the Substitution of Sodium for Lithium. Physics of the Solid State, 2020, 62, 297-307. | 0.6 | 1         |
| 5  | Forming High-Temperature Superconducting Layers at the Interfaces between Nonsuperconducting Phases. Technical Physics Letters, 2020, 46, 1004-1007.   | 0.7 | 0         |
| 6  | Dynamic Magnetization Switching in NiO Nanoparticles: Pulsed Field Magnetometry Study. Journal of Superconductivity and Novel Magnetism, 2019, 32, 405-411.  | 1.8 | 6         |
| 7  | Size effects in the formation of an uncompensated ferromagnetic moment in NiO nanoparticles. Journal of Applied Physics, 2019, 126, .  | 2.5 | 27        |
| 8  | Superconductivity on Interfaces of Nonsuperconducting Granules La <sub>2</sub> CuO <sub>4</sub> and La <sub>1.56</sub> Sr <sub>0.44</sub> CuO <sub>4</sub> . Journal of Superconductivity and Novel Magnetism, 2018, 31, 3867-3874.                    | 1.8 | 6         |
| 9  | Pulsed Field-Induced Magnetization Switching in Antiferromagnetic Ferrihydrite Nanoparticles. Physics of the Solid State, 2018, 60, 1973-1978.   | 0.6 | 13        |
| 10 | Bacterial Ferrihydrite Nanoparticles: Preparation, Magnetic Properties, and Application in Medicine. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2297-2304.  | 1.8 | 29        |
| 11 | A Capacitive Dilatometer for Measuring the Magnetostriction, Piezoelectric Effect, and Linear Thermal-Expansion Coefficient. Technical Physics Letters, 2018, 44, 123-125.   | 0.7 | 4         |
| 12 | Temperature behavior of the antiferromagnetic susceptibility of nanoferrihydrite from the measurements of the magnetization curves in fields of up to 250 kOe. Physics of the Solid State, 2017, 59, 1940-1946.  | 0.6 | 16        |
| 13 | Magnetic properties of NiO nano particles: Contributions of the antiferromagnetic and ferromagnetic subsystems in different magnetic field ranges up to 250 kOe. Physics of the Solid State, 2017, 59, 1547-1552.                                      | 0.6 | 12        |
| 14 | Exchange bias in nano-ferrihydrite. Journal of Applied Physics, 2016, 120, .   | 2.5 | 19        |
| 15 | Specific features of magnetic properties of ferrihydrite nanoparticles of bacterial origin: A shift of the hysteresis loop. Physics of the Solid State, 2016, 58, 287-292.   | 0.6 | 10        |
| 16 | Pulsed solenoid with nanostructured Cu-Nb wire winding. Journal of Surface Investigation, 2015, 9, 111-115.  | 0.5 | 6         |
| 17 | Positive magnetoresistance of single-crystal bilayer manganites (La <sub>1-x</sub> Zr <sub>x</sub> Nd <sub>z</sub> ) <sub>1.4</sub> Sr <sub>1.6</sub> Mn <sub>2</sub> O <sub>7</sub> (z=0, 0.1). Journal of Applied Physics, 2015, 117, 163918.        | 2.5 | 3         |
| 18 | Increase in the magnetization loop width in the Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> superconductor: Possible manifestation of phase separation. Journal of Experimental and Theoretical Physics, 2014, 118, 104-110.                   | 0.9 | 5         |

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|----|--|-----|-----------|
| 19 | Magnetic and dielectric properties of the PbFeBO <sub>4</sub> single crystal. Journal of Magnetism and Magnetic Materials, 2014, 353, 23-28.   | 2.3 | 17        |
| 20 | Magnetoresistance 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.   | 0.6 | 8         |
| 21 | Current-conducting properties of paper consisting of multiwall carbon nanotubes. Journal of Experimental and Theoretical Physics, 2013, 116, 860-865.  | 0.9 | 3         |
| 22 | Magnetic phase diagram of the olivine-type Mn <sub>2</sub> GeO <sub>4</sub> single crystal estimated from magnetic, resonance and thermodynamic properties. Journal of Physics Condensed Matter, 2013, 25, 136003.   | 1.8 | 6         |
| 23 | Specific features in the hysteretic behavior of the magnetoresistance of granular high-temperature superconductors. Physics of the Solid State, 2012, 54, 2155-2164.   | 0.6 | 13        |
| 24 | Relaxation of magnetoresistance of single-crystalline (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> in a pulsed magnetic field. Technical Physics Letters, 2012, 38, 1080-1082.   | 0.7 | 1         |
| 25 | Magnetoresistance of substituted lanthanum manganites La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> upon nonequilibrium overheating of carriers. Journal of Applied Physics, 2011, 109, 083711.   | 2.5 | 2         |
| 26 | General regularities of magnetoresistive effects in the polycrystalline yttrium and bismuth high-temperature superconductor systems. Physics of the Solid State, 2011, 53, 922-932.  | 0.6 | 29        |
| 27 | Current-voltage characteristics of polycrystalline (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> at low temperatures. Physics of the Solid State, 2011, 53, 2455-2458.  | 0.6 | 1         |
| 28 | Pinning in a porous high-temperature superconductor Bi <sub>2</sub> 223. Physics of the Solid State, 2011, 53, 2409-2414.  | 0.6 | 13        |
| 29 | Contributions from Inter-grain Boundaries to the Magneto-resistive Effect in Polycrystalline High-T <sub>c</sub> Superconductors. The Underlying Reason of Different Behavior for YBCO and BSCCO Systems. Journal of Superconductivity and Novel Magnetism, 2011, 24, 2129-2136.                                   | 1.8 | 10        |
| 30 | Low-temperature resistance and magnetoresistance hysteresis in polycrystalline (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> . Journal of Applied Physics, 2011, 109, 053711.   | 2.5 | 6         |
| 31 | Compression of a magnetic flux in the intergrain medium of a YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> granular superconductor from magnetic and magnetoresistive measurements. Journal of Applied Physics, 2011, 110, 093918.   | 2.5 | 20        |
| 32 | Magnetization asymmetry of type-II superconductors in high magnetic fields. Journal of Applied Physics, 2011, 109, .   | 2.5 | 40        |
| 33 | Relaxation of low-temperature magnetoresistance and magnetization of polycrystalline (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> . Journal Physics D: Applied Physics, 2011, 44, 255001.  | 2.8 | 1         |
| 34 | Low-temperature resistivity of polycrystalline (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> in a magnetic fields. Journal of Physics: Conference Series, 2010, 200, 052025.  | 0.4 | 6         |
| 35 | Nonmonotonic behavior of magnetoresistance, R(H) hysteresis, and low-temperature heat capacity of the BaPb <sub>0.75</sub> Bi <sub>0.25</sub> O <sub>3</sub> superconductor in a magnetic field: Possible manifestations of phase separation. Journal of Experimental and Theoretical Physics, 2010, 110, 584-593. | 0.9 | 4         |
| 36 | Asymmetry of magnetization curves of textured BSCCO. Physica C: Superconductivity and Its Applications, 2010, 470, S870-S872.  | 1.2 | 0         |

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|----|--|-----|-----------|
| 37 | Non-linear current-voltage characteristics of (La <sub>0.5</sub> Eu <sub>0.5</sub> ) <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> single crystals: Possible manifestation of the internal heating of chargecarriers. Physica B: Condensed Matter, 2010, 405, 4961-4965.   | 2.7 | 4         |
| 38 | Magnetoresistance hysteresis of bulk textured Bi <sub>1.8</sub> Pb <sub>0.3</sub> Sr <sub>1.9</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> +Ag ceramics and its anisotropy. Physica C: Superconductivity and Its Applications, 2010, 470, 61-67.   | 1.2 | 16        |
| 39 | Features of the low-temperature specific heat in underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6</sub> + x single crystals. JETP Letters, 2010, 92, 332-337.  | 1.4 | 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.  | 0.9 | 28        |
| 41 | Mechanism of formation of a negative magnetoresistance region in granular high-temperature superconductors. Physics of the Solid State, 2009, 51, 1105-1109.   | 0.6 | 13        |
| 42 | Increase in the diamagnetic response from low-density Bi <sub>1.8</sub> Pb <sub>0.3</sub> Sr <sub>1.9</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> high-temperature superconductors and Bi <sub>1.8</sub> Pb <sub>0.3</sub> Sr <sub>1.9</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> + Ag composites. Technical Physics, 2009, 54, 1130-1134.        | 0.7 | 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.   | 0.4 | 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.  | 1.8 | 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.  | 1.9 | 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.   | 0.6 | 7         |
| 47 | Pinning enhancement by heterovalent substitution in Y <sub>1-x</sub> RE <sub>x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . Superconductor Science and Technology, 2008, 21, 085015.   | 3.5 | 11        |
| 48 | Preparation, microstructure, magnetic and transport properties of bulk textured Bi <sub>1.8</sub> Pb <sub>0.3</sub> Sr <sub>1.9</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> and Bi <sub>1.8</sub> Pb <sub>0.3</sub> Sr <sub>1.9</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> +Ag ceramics. Superconductor Science and Technology, 2008, 21, 105019. | 3.5 | 11        |
| 49 | Thermally activated dissipation in a novel foamed Bi-based oxide superconductor in magnetic fields. Superconductor Science and Technology, 2007, 20, 491-494.  | 3.5 | 17        |
| 50 | Hysteretic behavior of the magnetoresistance and the critical current of bulk Y <sub>3</sub> /4Lu <sub>1</sub> /4Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> +CuO composites in a magnetic field. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1307-1308.  | 1.2 | 1         |
| 51 | Time relaxation of residual resistance of HTSC-based composites. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1309-1310.  | 1.2 | 5         |
| 52 | Crossover from S to F junctions in composites Y <sub>3</sub> /4Lu <sub>1</sub> /4Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> +Y <sub>3</sub> (Al <sub>1-x</sub> Fex) <sub>5</sub> O <sub>12</sub> . Physica C: Superconductivity and Its Applications, 2007, 460-462, 1311-1312.  | 1.2 | 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.  | 0.9 | 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.  | 0.7 | 3         |

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|----|--|-----|-----------|
| 55 | Current-voltage characteristics of break junctions of high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2007, 467, 80-84.  | 1.2 | 4         |
| 56 | Magnetization loop and critical current of porous Bi-based HTS. Physica C: Superconductivity and Its Applications, 2006, 434, 135-137.   | 1.2 | 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.   | 1.2 | 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.  | 1.2 | 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.   | 1.0 | 0         |
| 60 | Magnetic properties of a low-density Bi-based HTSC. Physics of Metals and Metallography, 2006, 101, S29-S32.   | 1.0 | 1         |
| 61 | Current-voltage characteristics of a foamed Bi <sub>1.8</sub> Pb <sub>0.3</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> high-temperature superconductor with fractal cluster structure. Physics of the Solid State, 2006, 48, 207-212.  | 0.6 | 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.   | 0.6 | 4         |
| 63 | Investigation of the Josephson coupling through a magnetoactive barrier (ferrimagnet, paramagnet) in Y <sub>3</sub> /4Lu <sub>1</sub> /4Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> + Y <sub>3</sub> (Al <sub>1-x</sub> Fe <sub>x</sub> ) <sub>5</sub> O <sub>12</sub> composites. Physics of the Solid State, 2006, 48, 2046-2055. | 0.6 | 0         |
| 64 | The synthesis, microstructure, transport and magnetic properties of Bi-based low density HTSC. Journal of Materials Processing Technology, 2005, 161, 58-61.   | 6.3 | 4         |
| 65 | Magnetoresistive effect in bulk composites 1-2-3 YBCO + CuO and 1-2-3 YBCO + BaPb <sub>1-x</sub> Sr <sub>x</sub> O <sub>3</sub> and their application as magnetic field sensors at 77 K. Superconductor Science and Technology, 2004, 17, 175-181.   | 3.5 | 20        |
| 66 | Title is missing!. Journal of Low Temperature Physics, 2003, 130, 347-381.   | 1.4 | 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.   | 1.9 | 0         |
| 68 | Controlled magnetoresistance in Y <sub>3</sub> /4Lu <sub>1</sub> /4Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> -CuO composites at 77 K. Technical Physics Letters, 2003, 29, 578-581.   | 0.7 | 1         |
| 69 | Transport and magnetic properties of Y <sub>3</sub> /4Lu <sub>1</sub> /4Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> + Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> composites representing a Josephson-type superconductor-ferrimagnet-superconductor weak-link network. Physics of the Solid State, 2003, 45, 1866-1873.         | 0.6 | 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.  | 0.7 | 14        |
| 71 | Anomalous transport properties of a paramagnetic NiTiO <sub>3</sub> + HTSC two-phase system representing a random Josephson junction network. JETP Letters, 2002, 75, 138-141.   | 1.4 | 0         |
| 72 | High-temperature superconductor based composites: Large magnetoresistance in weak magnetic fields. Technical Physics Letters, 2001, 27, 952-955.   | 0.7 | 6         |