

# Sergiy Khartsev

## List of Publications by Year in descending order

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68  
papers

1,296  
citations

471509

17  
h-index

377865

34  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1309  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Epitaxial Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> (001) films grown by pulsed laser deposition and reactive ion beam sputtering techniques. Journal of Applied Physics, 2000, 88, 2734-2739.   | 2.5 | 119       |
| 2  | Tailoring the colossal magnetoresistivity: La <sub>0.7</sub> (Pb <sub>0.63</sub> Sr <sub>0.37</sub> ) <sub>0.3</sub> MnO <sub>3</sub> thin-film uncooled bolometer. Applied Physics Letters, 2000, 77, 756-758.  | 3.3 | 88        |
| 3  | Pulsed laser deposited Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> films: Nature of magnetic anisotropy I. Journal of Applied Physics, 2009, 106, .   | 2.5 | 80        |
| 4  | Epitaxial colossal magnetoresistive La <sub>0.67</sub> (Sr,Ca) <sub>0.33</sub> MnO <sub>3</sub> films on Si. Applied Physics Letters, 2003, 82, 4295-4297.   | 3.3 | 76        |
| 5  | Colossal magnetoresistance in ultrathin epitaxial La <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> films. Journal of Applied Physics, 2000, 87, 2394-2399.   | 2.5 | 68        |
| 6  | Epitaxial ferroelectric/giant magnetoresistive heterostructures for magnetosensitive memory cell. Applied Physics Letters, 1999, 74, 1015-1017.  | 3.3 | 54        |
| 7  | High-performance epitaxial Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> thin films by magnetron sputtering. Applied Physics Letters, 2002, 81, 337-339.   | 3.3 | 54        |
| 8  | Optical waveguiding in magnetron-sputtered Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> thin films on sapphire substrates. Applied Physics Letters, 2003, 82, 439-441.  | 3.3 | 54        |
| 9  | [Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> •Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> ] <sub>m</sub> magneto-optical photonic crystals. Applied Physics Letters, 2005, 87, 122504.   | 3.3 | 52        |
| 10 | Thickness- and temperature-dependent magnetodynamic properties of yttrium iron garnet thin films. Journal of Applied Physics, 2015, 117, .   | 2.5 | 46        |
| 11 | 980nm Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> •Sm <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> magneto-optical photonic crystal. Applied Physics Letters, 2007, 90, 191113.  | 3.3 | 37        |
| 12 | Ferroelectric silver niobate-tantalate thin films. Applied Physics Letters, 2000, 77, 4416-4418.   | 3.3 | 35        |
| 13 | Structure, microstructure, and magneto-optical properties of laser deposited Bi <sub>[sub 3]</sub> Fe <sub>[sub 5]</sub> O <sub>[sub 12]</sub> /Gd <sub>[sub 3]</sub> Ga <sub>[sub 5]</sub> O <sub>[sub 12]</sub> (111) films. Journal of Applied Physics, 2002, 91, 9556. | 2.5 | 33        |
| 14 | Microwave and magneto-optic properties of pulsed laser deposited bismuth iron garnet films. IEEE Transactions on Magnetism, 2001, 37, 2454-2456.   | 2.1 | 22        |
| 15 | Bi <sub>[sub 3]</sub> /Fe <sub>[sub 5]</sub> /O <sub>[sub 12]</sub> thin film visualizer. IEEE Transactions on Magnetism, 2001, 37, 2457-2459.   | 2.1 | 21        |
| 16 | Ferroelectric Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )/SiC field-effect transistor. Applied Physics Letters, 2003, 83, 3975-3977.  | 3.3 | 21        |
| 17 | Transport and magnetic properties of DC-magnetron sputtered Ln <sub>0.7</sub> Mn <sub>1.3</sub> O <sub>3</sub> •Γ thin films. Journal of Magnetism and Magnetic Materials, 1999, 207, 168-179.   | 2.3 | 19        |
| 18 | Low field driven latching-type Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> •Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> magneto-optical display. Applied Physics Letters, 2006, 88, 242504.  | 3.3 | 18        |

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|----|---|-----|-----------|
| 19 | Delayed nucleation in Fe <sub>40</sub> Co <sub>40</sub> P <sub>14</sub> B <sub>6</sub> metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 337, 187-193.  | 5.6 | 17        |
| 20 | Comparison of Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> film giant Faraday rotators grown on (111) and (001) Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> single crystals. <i>Thin Solid Films</i> , 2006, 515, 477-480.   | 1.8 | 16        |
| 21 | Sol-gel derived versus pulsed laser deposited epitaxial La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> films: structure, transport and effects of post-annealing. <i>Thin Solid Films</i> , 2004, 467, 112-116.   | 1.8 | 15        |
| 22 | Integration of colossal magnetoresistors with GaAs. <i>Journal of Crystal Growth</i> , 2005, 284, 1-5.  | 1.5 | 15        |
| 23 | Giant fluctuation magnetoresistance in MnAs thin films. <i>Applied Physics Letters</i> , 1996, 68, 2008-2010.   | 3.3 | 14        |
| 24 | Ferroelectric Pb(Zr,Ti)O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /4H-SiC diode structures. <i>Applied Physics Letters</i> , 2002, 81, 895-897.   | 3.3 | 14        |
| 25 | Heteroepitaxial Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> /La <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> films for magneto-optical photonic crystals. <i>Applied Physics Letters</i> , 2005, 86, 141108.  | 3.3 | 14        |
| 26 | Highly luminescent garnets for magneto-optical photonic crystals. <i>Applied Physics Letters</i> , 2009, 95, 102503.  | 3.3 | 14        |
| 27 | Polaron conductivity of La <sub>0.7</sub> À0.3MnO <sub>3</sub> thin films in the magnetic phase transition range. <i>Low Temperature Physics</i> , 1998, 24, 803-807.   | 0.6 | 13        |
| 28 | Processing and properties of soft magnetic Fe/sub 40/Co/sub 40/P/sub 14/B/sub 6/ amorphous alloy. <i>IEEE Transactions on Magnetism</i> , 2001, 37, 2278-2280.  | 2.1 | 13        |
| 29 | Ferromagnetic resonance in Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> nanofibers. <i>Applied Physics Letters</i> , 2011, 99, .  | 3.3 | 13        |
| 30 | Controlling Gilbert damping in a YIG film using nonlocal spin currents. <i>Physical Review B</i> , 2016, 94, .  | 3.2 | 13        |
| 31 | Comparative Characteristics of Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> Films on Pt by Pulsed Laser Deposition and Magnetron Sputtering. <i>Integrated Ferroelectrics</i> , 2003, 55, 769-779.   | 0.7 | 13        |
| 32 | Microscopic magnetic and transport properties of La <sub>0.7</sub> Pb <sub>0.3</sub> ÀxSn <sub>x</sub> MnO <sub>3</sub> , 0 ≤ x ≤ 0.3: magnetoresistance and <sup>55</sup> Mn, <sup>139</sup> La MNR measurements. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 245, 163-166. | 2.1 | 12        |
| 33 | Studies of 1/f Noise in La <sub>1</sub> ÀxM <sub>x</sub> MnO <sub>3</sub> (M = Sr, Pb) Epitaxial Thin Films. <i>Journal of Low Temperature Physics</i> , 1999, 117, 1647-1651.  | 1.4 | 12        |
| 34 | Colossal magnetoresistive La <sub>0.7</sub> (Pb <sub>1</sub> ÀxSr <sub>x</sub> ) <sub>0.3</sub> MnO <sub>3</sub> films for bolometer and magnetic sensor applications. <i>Journal of Applied Physics</i> , 2001, 89, 6961-6963.   | 2.5 | 12        |
| 35 | Spin-wave resonance in the La <sub>0.7</sub> Mn <sub>1.3</sub> O <sub>3</sub> film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 268, 202-207.  | 2.1 | 11        |
| 36 | ELECTRO-OPTIC EFFECT IN FERROELECTRIC Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> THIN FILMS ON OXIDE SUBSTRATES. <i>Integrated Ferroelectrics</i> , 2006, 80, 97-106.  | 0.7 | 11        |

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|----|---|-----|-----------|
| 37 | Ferroelectric Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films on Pt-coated silicon by halide chemical vapor deposition. Journal of Applied Physics, 2000, 88, 2819-2824.   | 2.5 | 10        |
| 38 | Fuel removal from bumper limiter tiles by using a pulsed excimer laser. Journal of Nuclear Materials, 2005, 337-339, 639-643.   | 2.7 | 10        |
| 39 | High-Quality Si-Doped Ga <sub>2</sub> O <sub>3</sub> Films on Sapphire Fabricated by Pulsed Laser Deposition. Physica Status Solidi (B): Basic Research, 2021, 258, 2000362.  | 1.5 | 10        |
| 40 | Electrooptic ferroelectric Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> films. IEEE Photonics Technology Letters, 2005, 17, 1638-1640.   | 2.5 | 9         |
| 41 | Magnetic vacancies in iron phosphide: Induction of metamagnetism. Journal of Magnetism and Magnetic Materials, 1988, 72, 349-356.   | 2.3 | 8         |
| 42 | Giant magnetoresistance of La <sub>0.5</sub> Pb <sub>0.2</sub> Ca <sub>0.2</sub> Y <sub>0.1</sub> MnO <sub>3</sub> films obtained by magnetron sputtering. Low Temperature Physics, 1997, 23, 631-634.  | 0.6 | 7         |
| 43 | Rf Sputtered Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> Films on Oxide Substrates as Optical Waveguiding Material. Integrated Ferroelectrics, 2003, 54, 631-640.   | 0.7 | 7         |
| 44 | Structural and magnetic inhomogeneity and the NMR of <sup>55</sup> Mn and <sup>139</sup> La in the magnetoresistive ceramics La <sub>0.7</sub> Ba <sub>0.3</sub> <sup>x</sup> MnO <sub>3</sub> †La <sub>0.7</sub> <sup>x</sup> Ba <sub>0.3</sub> <sup>x</sup> MnO <sub>3</sub> +0.5xLa <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> . Low Temperature Physics, 2003, 29, 6910-916. | 0.6 | 7         |
| 45 | Determination of magnetic anisotropy constants for magnetic garnet epitaxial films using ferromagnetic resonance. Journal of Magnetism and Magnetic Materials, 2005, 288, 15-21.  | 2.3 | 7         |
| 46 | Broadband photoluminescence from pulsed laser deposited Er <sub>2</sub> O <sub>3</sub> films. Journal of Luminescence, 2006, 121, 256-258.  | 3.1 | 7         |
| 47 | Ferroelectric Properties of Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> Films at Low Temperatures. Integrated Ferroelectrics, 2004, 67, 59-68.  | 0.7 | 6         |
| 48 | Spin pumping and the inverse spin-hall effect via magnetostatic surface spin-wave modes in Yttrium-Iron garnet/platinum bilayers. IEEE Magnetics Letters, 2015, 6, 1-4.   | 1.1 | 6         |
| 49 | Interplay of structure, magnetism and resistivity of La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3+x</sub> . Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 271, 121-127.  | 2.1 | 5         |
| 50 | Nonlinear magneto-optical effects in all-garnet magnetophotonic crystals. Journal of Magnetism and Magnetic Materials, 2009, 321, 836-839.  | 2.3 | 5         |
| 51 | Green and blue magneto-optical photonic crystals. Thin Solid Films, 2012, 520, 3647-3650.   | 1.8 | 5         |
| 52 | Interface between Al <sub>2</sub> O <sub>3</sub> and 4H-SiC investigated by time-of-flight medium energy ion scattering. Journal Physics D: Applied Physics, 2017, 50, 495111.  | 2.8 | 5         |
| 53 | Magnetic phase transformations in nonstoichiometric iron phosphide. Journal of Magnetism and Magnetic Materials, 1992, 111, 189-198.  | 2.3 | 4         |
| 54 | Structure and Properties of La <sub>0.6</sub> Sr <sub>0.4</sub> <sup>x</sup> Ba <sub>x</sub> MnO <sub>3</sub> (0 ≤ x ≤ 0.4) Magnetoresistive Ceramics. Inorganic Materials, 2002, 38, 302-307.  | 0.8 | 4         |

