

# 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  
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68  
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68  
docs citations

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times ranked

1309  
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#	ARTICLE	IF	CITATIONS
1	High-Quality Si-Doped $\text{Ga}_2\text{O}_3$ Films on Sapphire Fabricated by Pulsed Laser Deposition. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000362.	1.5	10
2	Photoelectron dispersion in metallic and insulating $\text{VO}_2$ thin films. <i>Physical Review Research</i> , 2021, 3, .	2.0	1
3	Integration and High-Temperature Characterization of Ferroelectric Vanadium-Doped Bismuth Titanate Thin Films on Silicon Carbide. <i>Journal of Electronic Materials</i> , 2017, 46, 4478-4484.	2.2	4
4	Interface between $\text{Al}_2\text{O}_3$ and 4H-SiC investigated by time-of-flight medium energy ion scattering. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 495111.	2.8	5
5	Controlling Gilbert damping in a YIG film using nonlocal spin currents. <i>Physical Review B</i> , 2016, 94, .	3.2	13
6	Thickness- and temperature-dependent magnetodynamic properties of yttrium iron garnet thin films. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	46
7	Spin pumping and the inverse spin-hall effect via magnetostatic surface spin-wave modes in Yttrium-Iron garnet/platinum bilayers. <i>IEEE Magnetics Letters</i> , 2015, 6, 1-4.	1.1	6
8	ToF-MEIS stopping measurements in thin SiC films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 332, 130-133.	1.4	4
9	Memory resistive switching in $\text{CeO}_2$ -based film microstructures patterned by a focused ion beam. <i>Thin Solid Films</i> , 2014, 556, 520-524.	1.8	2
10	Green and blue magneto-optical photonic crystals. <i>Thin Solid Films</i> , 2012, 520, 3647-3650.	1.8	5
11	Ferromagnetic resonance in $\text{Y}_3\text{Fe}_5\text{O}_{12}$ nanofibers. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	13
12	Magneto-optical switching in nonlinear all-garnet magnetophotonic crystals. <i>Thin Solid Films</i> , 2011, 519, 5600-5602.	1.8	3
13	Enhanced photoluminescence in $[\text{Er}_2\text{O}_3/\text{TiO}_2]_m$ photonic crystals. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	4
14	Nonlinear magneto-optical effects in all-garnet magnetophotonic crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 836-839.	2.3	5
15	Highly luminescent garnets for magneto-optical photonic crystals. <i>Applied Physics Letters</i> , 2009, 95, 102503.	3.3	14
16	Pulsed laser deposited $\text{Y}_3\text{Fe}_5\text{O}_{12}$ films: Nature of magnetic anisotropy I. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	80
17	980nm $\text{Bi}_3\text{Fe}_5\text{O}_{12}/\text{Sm}_3\text{Ga}_5\text{O}_{12}$ magneto-optical photonic crystal. <i>Applied Physics Letters</i> , 2007, 90, 191113.	3.3	37
18	HETEROEPITAXIAL $\text{Na}_0.5\text{K}_0.5\text{NbO}_3/\text{La}_0.5\text{Sr}_0.5\text{CoO}_3$ ELECTRO-OPTICAL CELL. <i>Integrated Ferroelectrics</i> , 2006, 80, 133-143.	0.7	3

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19	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
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. Thin Solid Films, 2006, 515, 477-480.	1.8	16
21	ELECTRO-OPTIC EFFECT IN FERROELECTRIC Na <sub>0.5</sub> K <sub>0.5</sub> NbO <sub>3</sub> THIN FILMS ON OXIDE SUBSTRATES. Integrated Ferroelectrics, 2006, 80, 97-106.	0.7	11
22	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
23	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
24	Fuel removal from bumper limiter tiles by using a pulsed excimer laser. Journal of Nuclear Materials, 2005, 337-339, 639-643.	2.7	10
25	Integration of colossal magnetoresistors with GaAs. Journal of Crystal Growth, 2005, 284, 1-5.	1.5	15
26	Structure and Properties of Deposited Yttrium Iron Garnet Films. Physics of the Solid State, 2005, 47, 1107.	0.6	2
27	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. Applied Physics Letters, 2005, 86, 141108.	3.3	14
28	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
29	[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
30	Epitaxial Colossal Magnetoresistive/Ferroelectric Heterostructures on Si. Integrated Ferroelectrics, 2004, 67, 69-76.	0.7	3
31	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. Thin Solid Films, 2004, 467, 112-116.	1.8	15
32	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
33	A manifestation of magnetism of bismuth in iron garnet films. Physics of the Solid State, 2003, 45, 2334-2337.	0.6	1
34	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
35	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
36	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

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37	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
38	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> Sr <sub>x</sub> 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, 290.6 910-916.		7
39	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. Integrated Ferroelectrics, 2003, 55, 769-779.	0.7	13
40	Structure, microstructure, and magneto-optical properties of laser deposited Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> /Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> (111) films. Journal of Applied Physics, 2002, 91, 9556.	2.5	33
41	Ferroelectric Pb(Zr,Ti)O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> /4H <sup>+</sup> SiC diode structures. Applied Physics Letters, 2002, 81, 895-897.	3.3	14
42	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
43	Delayed nucleation in Fe <sub>40</sub> Co <sub>40</sub> P <sub>14</sub> B <sub>6</sub> metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 337, 187-193.	5.6	17
44	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
45	Processing and properties of soft magnetic Fe <sub>40</sub> /Co <sub>40</sub> /P <sub>14</sub> /B <sub>6</sub> amorphous alloy. IEEE Transactions on Magnetics, 2001, 37, 2278-2280.	2.1	13
46	Colossal magnetoresistive La <sub>0.7</sub> (Pb <sub>1</sub> <sup>x</sup> Sr <sub>x</sub> ) <sub>0.3</sub> MnO <sub>3</sub> films for bolometer and magnetic sensor applications. Journal of Applied Physics, 2001, 89, 6961-6963.	2.5	12
47	Microwave and magneto-optic properties of pulsed laser deposited bismuth iron garnet films. IEEE Transactions on Magnetics, 2001, 37, 2454-2456.	2.1	22
48	The P-H-T effects on the electric resistance and magnetoresistance of La <sub>0.7</sub> Sr <sub>0.1</sub> Pb <sub>0.2</sub> MnO <sub>3</sub> single crystal films. Technical Physics Letters, 2001, 27, 451-453.	0.7	3
49	Bi <sub>3</sub> /Fe <sub>5</sub> /O <sub>12</sub> thin film visualizer. IEEE Transactions on Magnetics, 2001, 37, 2457-2459.	2.1	21
50	Interplay of structure, magnetism and resistivity of La <sub>0.5</sub> Ca <sub>0.54</sub> MnO <sub>3+x</sub> . Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 271, 121-127.	2.1	5
51	Spin-wave resonance in the La <sub>0.7</sub> Mn <sub>1.3</sub> O <sub>3</sub> <sup>~</sup> film. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 268, 202-207.	2.1	11
52	Ferroelectric silver niobate-tantalate thin films. Applied Physics Letters, 2000, 77, 4416-4418.	3.3	35
53	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
54	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

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55	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
56	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
57	Epitaxial ferroelectric/giant magnetoresistive heterostructures for magnetosensitive memory cell. Applied Physics Letters, 1999, 74, 1015-1017.	3.3	54
58	Studies of 1/f Noise in La <sub>1-x</sub> M <sub>x</sub> MnO <sub>3</sub> (M = Sr, Pb) Epitaxial Thin Films. Journal of Low Temperature Physics, 1999, 117, 1647-1651.	1.4	12
59	Transport and magnetic properties of DC-magnetron sputtered Ln <sub>0.7</sub> Mn <sub>1.3</sub> O <sub>3</sub> thin films. Journal of Magnetism and Magnetic Materials, 1999, 207, 168-179.	2.3	19
60	Effect of high hydrostatic pressure on the ferroelectric properties of epitaxial Nb:Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> nanostructures. Scripta Materialia, 1999, 12, 1141-1144.	0.5	1
61	Microscopic magnetic and transport properties of La <sub>0.7</sub> Pb <sub>0.3-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> , 0 ≤ x ≤ 0.3: magnetoresistance and <sup>55</sup> Mn, <sup>139</sup> La MNR measurements. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 245, 163-166.	2.1	12
62	Polaron conductivity of La <sub>0.7-x</sub> 0.3MnO <sub>3</sub> thin films in the magnetic phase transition range. Low Temperature Physics, 1998, 24, 803-807.	0.6	13
63	Giant magnetoresistance in La <sub>0.7</sub> Pb <sub>0.3</sub> MnO <sub>3</sub> thin film. Low Temperature Physics, 1998, 24, 345-348.	0.6	1
64	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
65	Giant fluctuation magnetoresistance in MnAs thin films. Applied Physics Letters, 1996, 68, 2008-2010.	3.3	14
66	Magnetic phase transformations in nonstoichiometric iron phosphide. Journal of Magnetism and Magnetic Materials, 1992, 111, 189-198.	2.3	4
67	Magnetic vacancies in iron phosphide: Induction of metamagnetism. Journal of Magnetism and Magnetic Materials, 1988, 72, 349-356.	2.3	8
68	Porous and Dense Perovskite Films. , 0, , 153-163.		1