

Alexandr Tovstolytkin

List of Publications by Year in descending order

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117
papers

1,357
citations

430874

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docs citations

117
times ranked

1475
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant and reversible extrinsic magnetocaloric effects in La _{0.7} Ca _{0.3} MnO ₃ films due to strain. <i>Nature Materials</i> , 2013, 12, 52-58.	27.5	226
2	Self-doped lanthanum manganites as a phase-separated system: Transformation of magnetic, resonance, and transport properties with doping and hydrostatic compression. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	90
3	Magnetic properties and high heating efficiency of ZnFe ₂ O ₄ nanoparticles. <i>Materials Chemistry and Physics</i> , 2014, 146, 129-135.	4.0	35
4	Mechanisms of AC losses in magnetic fluids based on substituted manganites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18087-18097.	2.8	35
5	Left-handed behavior of strontium-doped lanthanum manganite in the millimeter waveband. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	32
6	Iron-Doped (La,Sr)MnO ₃ Manganites as Promising Mediators of Self-Controlled Magnetic Nanohyperthermia. <i>Nanoscale Research Letters</i> , 2016, 11, 24.	5.7	32
7	Nickel-zinc spinel nanoferrites: Magnetic characterization and prospects of the use in self-controlled magnetic hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 422-427.	2.3	30
8	Title is missing!. <i>Inorganic Materials</i> , 2003, 39, 161-170.	0.8	27
9	Magnetic Properties and AC Losses in AFe ₂ O ₄ (A = Mn, Co, Ni, Zn) Nanoparticles Synthesized from Nonaqueous Solution. <i>Journal of Chemistry</i> , 2015, 2015, 1-9.	1.9	27
10	Synthetic ferrimagnets with thermomagnetic switching. <i>Physical Review B</i> , 2014, 90, .	3.2	26
11	Vacancy-induced enhancement of magnetic interactions in (Ca, Na)-doped lanthanum manganites. <i>Journal of Applied Physics</i> , 2007, 102, 063902.	2.5	25
12	Magnetolectric effect in composite structures based on ferroelectric-ferromagnetic perovskites. <i>Journal of the European Ceramic Society</i> , 2010, 30, 259-263.	5.7	25
13	Superparamagnetic behavior and AC-losses in NiFe ₂ O ₄ nanoparticles. <i>Solid State Sciences</i> , 2013, 20, 115-119.	3.2	25
14	Crystallographic, electrical, and magnetic properties of the system La _{0.7} Sr _{0.3} Mn _{1-x} Fe _x O ₃ . <i>Low Temperature Physics</i> , 2006, 32, 134-138.	0.6	21
15	Negative permittivity and left-handed behavior of doped manganites in millimeter waveband. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	21
16	Anisotropic magnetization relaxation in ferromagnetic multilayers with variable interlayer exchange coupling. <i>Physical Review B</i> , 2016, 94, .	3.2	21
17	Lanthanum-strontium manganites for magnetic nanohyperthermia: Fine tuning of parameters by substitutions in lanthanum sublattice. <i>Journal of Alloys and Compounds</i> , 2017, 702, 31-37.	5.5	21
18	Magnetic properties of superparamagnetic $\hat{1}^2$ -NaFeO ₂ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 458, 62-65.	2.3	20

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19	Profound Interfacial Effects in CoFe ₂ O ₄ /Fe ₃ O ₄ and Fe ₃ O ₄ /CoFe ₂ O ₄ Core/Shell Nanoparticles. Nanoscale Research Letters, 2018, 13, 67.	5.7	20
20	(La,Sr)(Mn,Me)O ₃ manganites doped with d metals: Study of charge compensation mechanisms by crystallographic and magnetic characterizations. Journal of the European Ceramic Society, 2007, 27, 3919-3922.	5.7	19
21	Structure and Properties of Nonstoichiometric La _{1-x} Na _x MnO ₃ Solid Solutions. Inorganic Materials, 2004, 40, 744-750.	0.8	18
22	Effect of Synthesis Method of La _{1-x} Sr _x MnO ₃ Manganite Nanoparticles on Their Properties. Nanoscale Research Letters, 2018, 13, 13.	5.7	18
23	Oxidation state of copper ions in (La _{0.7} Sr _{0.3})(Mn _{1-x} Cu _x)O ₃ ceramics and their magnetic properties. Inorganic Materials, 2006, 42, 286-293.	0.8	17
24	A remarkable transformation of magnetic resonance spectra as a result of a mutual influence of coexisting para- and ferromagnetic phases. Journal of Physics Condensed Matter, 2007, 19, 246212.	1.8	17
25	Interference of coexisting para- and ferromagnetic phases in partially crystallized films of doped manganites. Journal of Physics Condensed Matter, 2009, 21, 386003.	1.8	17
26	Magnetoelectric Coupling in CuO Nanoparticles for Spintronics Applications. Electronic Materials Letters, 2018, 14, 370-375.	2.2	17
27	Magnetoresistance and phase separation in thin films of moderately Sr-doped manganites. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1839-1840.	2.3	16
28	Discrete deposition as a powerful tool to govern magnetoresistance of the doped manganite films. Journal of Applied Physics, 2005, 98, 043902.	2.5	16
29	Synthesis and characterization of La _{0.7} Sr _{0.3} Mn _{1-x} Ti _x O ₃ manganites. Physics of the Solid State, 2006, 48, 709-716.	0.6	16
30	Structural, electrical, and magnetic properties of La _{0.7} Ca _{0.3-x} Na _x MnO ₃ solid solutions. Inorganic Materials, 2008, 44, 181-188.	0.8	16
31	Complex phase separation in La _{0.6} Ca _x MnO ₃ solid solutions. http://www.w3.org/1998/Math/MathML display="inline">Ca_{x}	3.2	16
32	Effect of nanoparticles agglomeration on electrical properties of La _{1-x} A _x MnO ₃ (A=Sr, Ba) nanopowder and ceramic solid solutions. Solid State Sciences, 2012, 14, 501-505.	3.2	16
33	Interplay between superparamagnetic and blocked behavior in an ensemble of lanthanum-strontium manganite nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 27015-27024.	2.8	16
34	Superparamagnetic LaSrMnO ₃ nanoparticles for magnetic nanohyperthermia and their biocompatibility. Journal of Magnetism and Magnetic Materials, 2017, 442, 423-428.	2.3	16
35	Magnetoresistance in La _{1-x} Sr _x MnO ₃ polycrystalline samples. Journal of Magnetism and Magnetic Materials, 1999, 207, 118-120.	2.3	15
36	Plasmonic Enhanced Photocatalytic Activity of Ag Nanospheres Decorated BiFeO ₃ Nanoparticles. Catalysis Letters, 2017, 147, 1640-1645.	2.6	15

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37	Double-peaked character of the temperature dependence of resistance of perovskite manganites for a broadened ferromagnetic transition. <i>Low Temperature Physics</i> , 1999, 25, 962-965.	0.6	13
38	Magnetic and magnetoresistive properties of sodium-substituted lanthanum manganites. <i>Low Temperature Physics</i> , 2010, 36, 220-225.	0.6	13
39	Nanoparticles of spinel and perovskite ferromagnets and prospects for their application in medicine. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	12
40	Spin dynamics in a Curie-switch. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 446003.	1.8	12
41	Superparamagnetic NaFeO_2 : A novel, efficient and biocompatible nanoparticles for treatment of cancer by nanohyperthermia. <i>Materials Research Express</i> , 2019, 6, 0850a6.	1.6	12
42	Giant magnetocaloric effect driven by indirect exchange in magnetic multilayers. <i>Physical Review Materials</i> , 2018, 2, .	2.4	12
43	Effect of Synthesis Temperature on Structure and Magnetic Properties of $(\text{La},\text{Nd})_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Nanoparticles. <i>Nanoscale Research Letters</i> , 2017, 12, 100.	5.7	11
44	Critical behavior of ensembles of superparamagnetic nanoparticles with dispersions of magnetic parameters. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 375801.	1.8	11
45	Core/shell architecture as an efficient tool to tune DC magnetic parameters and AC losses in spinel ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019, 788, 1203-1210.	5.5	11
46	On the Critical Size of the Transition of a Ferromagnet into a Single-Domain State. <i>Journal of Nano- and Electronic Physics</i> , 2017, 9, 02028-1-02028-17.	0.5	10
47	Structural, electrical, and magnetic properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-y}\text{Cr}_y\text{O}_3$. <i>Inorganic Materials</i> , 2006, 42, 1121-1125.	0.8	9
48	Influence of miscut direction on magnetic anisotropy of magnetite films grown on vicinal MgO (100). <i>Journal of Applied Physics</i> , 2010, 107, 09B108.	2.5	8
49	Unusual magnetic and calorimetric properties of lanthanum-strontium manganite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166088.	2.3	8
50	Coinage metal (Ag, Cu) decorated BiFeO_3 nanoparticles: synthesis, characterization and their photocatalysis properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18236-18243.	2.2	7
51	Al-doped yttrium iron garnets $\text{Y}_3\text{AlFe}_4\text{O}_{12}$: Synthesis and properties. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158140.	5.5	7
52	Unusual substitutional properties of Cu in bulk polycrystalline samples of $\text{La}_{0.7}\text{Ca}_{0.3}\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$. <i>Low Temperature Physics</i> , 2001, 27, 366-371.	0.6	6
53	Electrical and resonance properties of magnetically inhomogeneous $\text{La}_{0.775}\text{Sr}_{0.225}\text{MnO}_3$ films. <i>Physics of the Solid State</i> , 2003, 45, 1952-1956.	0.6	6
54	Temperature curve of magnetization and left-handed properties of $\text{La}_{0.775}\text{Sr}_{0.225}\text{MnO}_3$. <i>Applied Physics Letters</i> , 2012, 100, 171104.	3.3	6

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55	Left-handed properties of manganite-perovskites $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ at various dopant concentrations. <i>AIP Advances</i> , 2014, 4, .	1.3	6
56	ESR Study of (La,Ba)MnO ₃ /ZnO Nanostructure for Resistive Switching Device. <i>Nanoscale Research Letters</i> , 2017, 12, 180.	5.7	6
57	Anomalous transport behavior of $\text{La}_{0.825}\text{Sr}_{0.175}\text{MnO}_3$ polycrystalline samples below Curie temperature. <i>Low Temperature Physics</i> , 1999, 25, 74-75.	0.6	5
58	Peculiar features of electron spin resonance spectra in (Ca,Na)-doped lanthanum manganites. <i>Low Temperature Physics</i> , 2009, 35, 130-132.	0.6	5
59	Current-induced magnetic and thermal effects in materials with combined magnetic and resistive transitions. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	5
60	Spin relaxation in multilayers with synthetic ferrimagnets. <i>Physical Review B</i> , 2018, 98, .	3.2	5
61	Isotropic FMR frequency enhancement in thin Py/FeMn bilayers under strong magnetic proximity effect. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 305003.	2.8	5
62	Aging effects in NaFeO ₂ nanoparticles: Evolution of crystal structure and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 540, 168452.	2.3	5
63	Dynamics of low temperature magnetic behavior of Co _{0.53} Ga _{0.47} alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1992, 110, 197-201.	2.3	4
64	Giant resistance switching effect in nano-scale twinned $\text{La}_{0.65}\text{Ca}_{0.35}\text{MnO}_3$ film. <i>Low Temperature Physics</i> , 2002, 28, 856-858.	0.6	4
65	Current-induced change in the character of the conduction in $\text{La}_{0.775}\text{Sr}_{0.225}\text{MnO}_3$ films. <i>Low Temperature Physics</i> , 2003, 29, 563-565.	0.6	4
66	Conduction mechanisms in partially crystallized (La,Na)MnO ₃ films. <i>Low Temperature Physics</i> , 2008, 34, 192-197.	0.6	4
67	Observation of out-of-plane unidirectional anisotropy in MgO-capped planar nanowire arrays of Fe. <i>Journal of Applied Physics</i> , 2013, 114, 133903.	2.5	4
68	Ferromagnetic resonance in strained and relaxed regions of (La,Na)MnO ₃ /LaAlO ₃ (001) films. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 340, 109-112.	2.3	4
69	Charge ordering in Nd _{2/3} Ca _{1/3} MnO ₃ : ESR and magnetometry study. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 410, 109-115.	2.3	4
70	Features of the magnetic state of ensembles of nanoparticles of substituted manganites: Experiment and model calculations. <i>Low Temperature Physics</i> , 2017, 43, 570-577.	0.6	4
71	Current-driven thermo-magnetic switching in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	4
72	Magnetic Hysteresis in Nanostructures with Thermally Controlled RKKY Coupling. <i>Nanoscale Research Letters</i> , 2018, 13, 245.	5.7	4

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73	Anomalous magnetic behavior of the Co _{0.53} Ga _{0.47} spin glass above the freezing temperature. Journal of Magnetism and Magnetic Materials, 1994, 130, 293-296.	2.3	3
74	Substrate effect on the properties of La _{0.775} Sr _{0.225} MnO ₃ films. Inorganic Materials, 2007, 43, 1252-1257.	0.8	3
75	Formation of phase domain structures in thin films under conditions of a first-order magnetic phase transition. Journal of Experimental and Theoretical Physics, 2008, 107, 794-803.	0.9	3
76	Sol-gel synthesis and properties of tin-doped lanthanum manganites. Low Temperature Physics, 2011, 37, 107-111.	0.6	3
77	Highly anisotropic magnetic properties of ultrathin (La,Na) MnO ₃ films on LaAlO ₃ (001) substrates. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 151-153.	0.9	3
78	Structural first-order transformation in La _{2/3} Ba _{1/3} MnO ₃ : ESR study. Journal of Magnetism and Magnetic Materials, 2012, 324, 4225-4230.	2.3	3
79	Magnetotransport Properties of La _{0.6} Sr _{0.2} Mn _{1.2} O ₃ Films: Effects of Film Thickness and Substrate-Induced Strain. Solid State Phenomena, 0, 200, 239-244.		3
80	Magnetic and resonance properties of Fe nanowire arrays on oxidised step-bunched silicon templates. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 67, 192-196.	2.7	3
81	Ferromagnetic resonance and interlayer exchange coupling in magnetic multilayers with compositional gradients. AIP Advances, 2017, 7, 056307.	1.3	3
82	Effect of nanostructure layout on spin pumping phenomena in antiferromagnet/nonmagnetic metal/ferromagnet multilayered stacks. AIP Advances, 2017, 7, 056312.	1.3	3
83	Temperature-dependent magnetic and resistive switching phenomena in (La,Ba)MnO ₃ /ZnO heterostructure. Superlattices and Microstructures, 2018, 120, 525-532.	3.1	3
84	Heating loss mechanism in ¹²⁵ NaFeO ₂ nanoparticles for cancer treatment under alternating field. Materialia, 2021, 18, 101152.	2.7	3
85	Manganite Nanoparticles as Promising Heat Mediators for Magnetic Hyperthermia: Comparison of Different Chemical Substitutions. Acta Physica Polonica A, 2018, 133, 1017-1020.	0.5	3
86	Higher-order ferromagnetic resonances in periodic arrays of synthetic-antiferromagnet nanodisks. Applied Physics Letters, 2021, 119, 192402.	3.3	3
87	Sintering temperature dependence of the magnetoresistance in (La _{1-x} Sr _x)MnO ₃ (x = 0.15-0.30) polycrystalline samples. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 525-526.	2.3	2
88	Quasi-static magnetic properties and high-frequency energy losses in CoFe ₂ O ₄ nanoparticles. Low Temperature Physics, 2016, 42, 470-474.	0.6	2
89	Thickness- and substrate-dependent magnetotransport properties of lanthanum-strontium manganite films with overstoichiometric manganese content. Journal of Materials Science: Materials in Electronics, 2020, 31, 16360-16368.	2.2	2
90	Magnetocrystalline anisotropy in Y(Co _{0.85} Al _{0.15}) ₂ with the C15 cubic Laves phase structure. Journal of Physics Condensed Matter, 1993, 5, 7009-7012.	1.8	1

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91	Transport and Magnetoresistance Properties of Nanocrystalline $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. Materials Science Forum, 2001, 373-376, 621-624.	0.3	1
92	Transport Properties of Doped Manganites in Case of Degraded Magnetic Transition. Materials Science Forum, 2001, 373-376, 613-616.	0.3	1
93	Unidirectional anisotropy in planar arrays of iron nanowires: A ferromagnetic resonance study. Low Temperature Physics, 2014, 40, 165-170.	0.6	1
94	Ferromagnetic resonance in nanostructures with temperature-controlled interlayer interaction. Low Temperature Physics, 2016, 42, 761-767.	0.6	1
95	Spin-dependent scattering and magnetic proximity effect in Ni-doped Co/Cu multilayers as a probe of atomic magnetism. Journal of Applied Physics, 2019, 125, 023907.	2.5	1
96	Spin-current dissipation in a thin-film bilayer ferromagnet/antiferromagnet. Low Temperature Physics, 2020, 46, 813-819.	0.6	1
97	Temperature and thickness dependent magnetostatic properties of $[\text{Fe}/\text{Py}]/\text{FeMn}/\text{Py}$ multilayers. Low Temperature Physics, 2021, 47, 483-487.	0.6	1
98	New Functionalities of Nanostructured Oxide Magnetics. Visnik Nacional Noi Akademii Nauk Ukrai Ni, 2013, , 7-10.	0.3	1
99	Resonance Properties and Magnetic Anisotropy of Nanocrystalline $\text{Fe}_{73}\text{Cu}_1\text{Nb}_3\text{Si}_{16}\text{B}_7$ Alloy. Ukrainian Journal of Physics, 2019, 64, 942.	0.2	1
100	Magnetic Properties of $\text{Fe}_3\text{O}_4/\text{CoFe}_2\text{O}_4$ Composite Nanoparticles with Core/Shell Architecture. Ukrainian Journal of Physics, 2020, 65, 904.	0.2	1
101	On Collective Interparticle Effects Underlying Unusual Coercive Behavior of Ensembles of Substituted Manganite Nanoparticles. Acta Physica Polonica A, 2022, 141, 351-355.	0.5	1
102	AC Field Threshold Effect as a Key Factor towards the Efficient Heating of Fluids with NaFeO_2 Magnetic Nanoparticles. Particle and Particle Systems Characterization, 0, , 2200095.	2.3	1
103	Out-of-plane spin alignment in ultrathin films of sodium-doped manganites as evidenced by FMR measurements. , 2010, , .		0
104	Effect of A-site vacancies on the magnetoresistive Effect in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. Inorganic Materials, 2011, 47, 196-203.	0.8	0
105	Synthesis and electrical and magnetic properties of $\text{LaSr}_2\text{Mn}_2\text{Ni}_7$ solid solutions. Inorganic Materials, 2011, 47, 431-434.	0.8	0
106	Mixed magnetic state of sodium-doped manganites and its transformation in the course of para-to ferromagnetic transition. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 24-28.	0.9	0
107	Peculiar features of magnetic and resistive transitions in partially crystallized $\text{La}_{0.84}\text{Na}_{0.16}\text{MnO}_3$ films. , 2012, , .		0
108	Synthesis and Properties of AFe_2O_4 (A = Mn, Fe, Co, Ni, Zn)-based nanoparticles coprecipitated from nonaqueous solutions. , 2012, , .		0

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109	Thickness-dependent magnetotransport properties of $\text{La}_{0.6}\text{Sr}_{0.2}\text{Mn}_{1.2}\text{O}_3$ films on SrTiO_3 and LaAlO_3 substrates. , 2012, , .		0
110	Effect of film thickness on the electromagnetic properties of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ coatings. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 236-238.	0.6	0
111	Electron spin resonance study of mixed magnetic states in bulk samples of $(\text{La,Bi})\text{MnO}_{3+\delta}$ system. , 2013, , .		0
112	AC losses in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ nanoparticles fabricated by different technological routes. , 2014, , .		0
113	Temperature dependent in-plane magnetic anisotropy of $(\text{La,Na})\text{MnO}_3//\text{LaAlO}_3$ (001) thin film: Ferromagnetic resonance study. Thin Solid Films, 2015, 589, 697-700.	1.8	0
114	Quasistatic Magnetic Properties and Dynamic Hysteretic Losses in $(\text{La,Sr})\text{MnO}_3$ Nanoparticles Fabricated by Different Technological Routes. Solid State Phenomena, 0, 230, 101-107.	0.3	0
115	Nanoscale Heat Mediators for Magnetic Hyperthermia: Materials, Problems, and Prospects. , 2021, , 25-64.		0
116	Crystallographic, Magnetic, and Magnetoresistive Properties of $\text{La}_{0.77}\text{Sr}_{0.23}\text{Mn}_{1-y}\text{Fe}_y\text{O}_3$ Ceramics. Metallofizika I Noveishie Tekhnologii, 2016, 38, 477-490.	0.5	0
117	Structural Peculiarities and Properties of $(\text{La,Sr})(\text{Mn,Me})\text{O}_3$ (Me=Cu,Cr). , 2005, , 323-328.		0