Alexandr Tovstolytkin

List of Publications by Year
in descending order

117	1,357	430874	434195
papers	citations	18 h-index	31 g-index

117	117	117	1475
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Al-doped yttrium iron garnets Y3AlFe4O12: Synthesis and properties. Journal of Alloys and Compounds, 2021, 856, 158140.	5.5	7
3	Nanoscale Heat Mediators for Magnetic Hyperthermia: Materials, Problems, and Prospects. , 2021, , 25-64.		0
4	Isotropic FMR frequency enhancement in thin Py/FeMn bilayers under strong magnetic proximity effect. Journal Physics D: Applied Physics, 2021, 54, 305003.	2.8	5
5	Temperature and thickness dependent magnetostatic properties of [Fe/Py]/FeMn/Py multilayers. Low Temperature Physics, 2021, 47, 483-487.	0.6	1
6	Heating loss mechanism in Î²-NaFeO2 nanoparticles for cancer treatment under alternating field. Materialia, 2021, 18, 101152.	2.7	3
7	Aging effects in NaFeO2 nanoparticles: Evolution of crystal structure and magnetic properties. Journal of Magnetism and Magnetic Materials, 2021, 540, 168452.	2.3	5
8	Higher-order ferromagnetic resonances in periodic arrays of synthetic-antiferromagnet nanodisks. Applied Physics Letters, 2021, 119, 192402.	3.3	3
9	Unusual magnetic and calorimetric properties of lanthanum-strontium manganite nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 498, 166088.	2.3	8
10	Thickness- and substrate-dependent magnetotransport properties of lanthanumâ€“strontium manganite films with overstoichiometric manganese content. Journal of Materials Science: Materials in Electronics, 2020, 31, 16360-16368.	2.2	2
11	Spin-current dissipation in a thin-film bilayer ferromagnet/antiferromagnet. Low Temperature Physics, 2020, 46, 813-819.	0.6	1
12	Magnetic Properties of Fe3O4/CoFe2O4 Composite Nanoparticles with Core/Shell Architecture. Ukrainian Journal of Physics, 2020, 65, 904.	0.2	1
13	Critical behavior of ensembles of superparamagnetic nanoparticles with dispersions of magnetic parameters. Journal of Physics Condensed Matter, 2019, 31, 375801.	1.8	11
14	Superparamagnetic Î²-NaFeO₂: A novel, efficient and biocompatible nanoparticles for treatment of cancer by nanohyperthermia. Materials Research Express, 2019, 6, 0850a6.	1.6	12
15	Core/shell architecture as an efficient tool to tune DC magnetic parameters and AC losses in spinel ferrite nanoparticles. Journal of Alloys and Compounds, 2019, 788, 1203-1210.	5.5	11
16	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
17	Nickel-zinc spinel nanoferrites: Magnetic characterization and prospects of the use in self-controlled magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2019, 473, 422-427.	2.3	30
18	Resonance Properties and Magnetic Anisotropy of Nanocrystalline Fe73Cu1Nb3Si16B7 Alloy. Ukrainian Journal of Physics, 2019, 64, 942.	0.2	1

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19	Magnetic properties of superparamagnetic Î²-NaFeO2 nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 458, 62-65.	2.3	20
20	Magnetoelectric Coupling in CuO Nanoparticles for Spintronics Applications. Electronic Materials Letters, 2018, 14, 370-375.	2.2	17
21	Effect of Synthesis Method of La1â€‰â^'â€‰xSrxMnO3 Manganite Nanoparticles on Their Properties. Nanoscale Research Letters, 2018, 13, 13.	5.7	18
22	Magnetic Hysteresis in Nanostructures with Thermally Controlled RKKY Coupling. Nanoscale Research Letters, 2018, 13, 245.	5.7	4
23	Spin relaxation in multilayers with synthetic ferrimagnets. Physical Review B, 2018, 98, .	3.2	5
24	Profound Interfacial Effects in CoFe2O4/Fe3O4 and Fe3O4/CoFe2O4 Core/Shell Nanoparticles. Nanoscale Research Letters, 2018, 13, 67.	5.7	20
25	Temperature-dependent magnetic and resistive switching phenomena in (La,Ba)MnO3/ZnO heterostructure. Superlattices and Microstructures, 2018, 120, 525-532.	3.1	3
26	Giant magnetocaloric effect driven by indirect exchange in magnetic multilayers. Physical Review Materials, 2018, 2, .	2.4	12
27	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
28	Lanthanum-strontium manganites for magnetic nanohyperthermia: Fine tuning of parameters by substitutions in lanthanum sublattice. Journal of Alloys and Compounds, 2017, 702, 31-37.	5.5	21
29	Ferromagnetic resonance and interlayer exchange coupling in magnetic multilayers with compositional gradients. AIP Advances, 2017, 7, 056307.	1.3	3
30	Effect of Synthesis Temperature on Structure and Magnetic Properties of (La,Nd)0.7Sr0.3MnO3 Nanoparticles. Nanoscale Research Letters, 2017, 12, 100.	5.7	11
31	Effect of nanostructure layout on spin pumping phenomena in antiferromagnet/nonmagnetic metal/ferromagnet multilayered stacks. AIP Advances, 2017, 7, 056312.	1.3	3
32	Plasmonic Enhanced Photocatalytic Activity of Ag Nanospheres Decorated BiFeO3 Nanoparticles. Catalysis Letters, 2017, 147, 1640-1645.	2.6	15
33	Features of the magnetic state of ensembles of nanoparticles of substituted manganites: Experiment and model calculations. Low Temperature Physics, 2017, 43, 570-577.	0.6	4
34	ESR Study of (La,Ba)MnO3/ZnO Nanostructure for Resistive Switching Device. Nanoscale Research Letters, 2017, 12, 180.	5.7	6
35	Coinage metal (Ag, Cu) decorated BiFeO3 nanoparticles: synthesis, characterization and their photocatalysis properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 18236-18243.	2.2	7
36	Interplay between superparamagnetic and blocked behavior in an ensemble of lanthanumâ€“strontium manganite nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 27015-27024.	2.8	16

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37	Superparamagnetic LaSrMnO3 nanoparticles for magnetic nanohyperthermia and their biocompatibility. Journal of Magnetism and Magnetic Materials, 2017, 442, 423-428.	2.3	16
38	Current-driven thermo-magnetic switching in magnetic tunnel junctions. Applied Physics Letters, 2017, 111, .	3.3	4
39	On the Critical Size of the Transition of a Ferromagnet into a Single-Domain State. Journal of Nano- and Electronic Physics, 2017, 9, 02028-1-02028-17.	0.5	10
40	Ferromagnetic resonance in nanostructures with temperature-controlled interlayer interaction. Low Temperature Physics, 2016, 42, 761-767.	0.6	1
41	Quasi-static magnetic properties and high-frequency energy losses in CoFe2O4nanoparticles. Low Temperature Physics, 2016, 42, 470-474.	0.6	2
42	Anisotropic magnetization relaxation in ferromagnetic multilayers with variable interlayer exchange coupling. Physical Review B, 2016, 94, .	3.2	21
43	Iron-Doped (La,Sr)MnO3 Manganites as Promising Mediators of Self-Controlled Magnetic Nanohyperthermia. Nanoscale Research Letters, 2016, 11, 24.	5.7	32
44	Charge ordering in Nd2/3Ca1/3MnO3: ESR and magnetometry study. Journal of Magnetism and Magnetic Materials, 2016, 410, 109-115.	2.3	4
45	Crystallographic, Magnetic, and Magnetoresistive Properties of La$_{0.77}$Sr$_{0.23}$Mn$_{1-y}$Fe$_{y}$O$_{3}$ Ceramics. Metallofizika I Noveishie Tekhnologii, 2016, 38, 477-490.	0.5	0
46	Magnetic Properties and AC Losses in AFe₂O₄(A = Mn, Co, Ni, Zn) Nanoparticles Synthesized from Nonaqueous Solution. Journal of Chemistry, 2015, 2015, 1-9.	1.9	27
47	Spin dynamics in a Curie-switch. Journal of Physics Condensed Matter, 2015, 27, 446003.	1.8	12
48	Temperature dependent in-plane magnetic anisotropy of (La,Na)MnO3//LaAlO3 (001) thin film: Ferromagnetic resonance study. Thin Solid Films, 2015, 589, 697-700.	1.8	0
49	Mechanisms of AC losses in magnetic fluids based on substituted manganites. Physical Chemistry Chemical Physics, 2015, 17, 18087-18097.	2.8	35
50	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
51	Nanoparticles of spinel and perovskite ferromagnets and prospects for their application in medicine. AIP Conference Proceedings, 2014, , .	0.4	12
52	Unidirectional anisotropy in planar arrays of iron nanowires: A ferromagnetic resonance study. Low Temperature Physics, 2014, 40, 165-170.	0.6	1
53	Magnetic properties and high heating efficiency of ZnFe2O4 nanoparticles. Materials Chemistry and Physics, 2014, 146, 129-135.	4.0	35
54	AC losses in La<inf>1−x</inf>Sr<inf>x</inf>MnO<inf>3</inf> nanoparticles fabricated by different technological routes. , 2014, , .		0

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55	Left-handed properties of manganite-perovskites La 1-x Sr x MnO 3 at various dopant concentrations. AIP Advances, 2014, 4, .	1.3	6
56	Synthetic ferrimagnets with thermomagnetic switching. Physical Review B, 2014, 90, .	3.2	26
57	Observation of out-of-plane unidirectional anisotropy in MgO-capped planar nanowire arrays of Fe. Journal of Applied Physics, 2013, 114, 133903.	2.5	4
58	Giant and reversible extrinsic magnetocaloric effects in La0.7Ca0.3MnO3 films due to strain. Nature Materials, 2013, 12, 52-58.	27.5	226
59	Ferromagnetic resonance in strained and relaxed regions of (La,Na)MnO3/LaAlO3 (001) films. Journal of Magnetism and Magnetic Materials, 2013, 340, 109-112.	2.3	4
60	Superparamagnetic behavior and AC-losses in NiFe2O4 nanoparticles. Solid State Sciences, 2013, 20, 115-119.	3.2	25
61	Effect of film thickness on the electromagnetic properties of La1â^'x Sr x MnO3 coatings. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 236-238.	0.6	0
62	Electron spin resonance study of mixed magnetic states in bulk samples of (La,Bi)MnO<inf>3+delta</inf> system. , 2013, , .		0
63	New Functionalities of Nanostructured Oxide Magnetics. Visnik Nacional Noi Academii Nauk Ukrai Ni, 2013, , 7-10.	0.3	1
64	Peculiar features of magnetic and resistive transitions in partially crystallized La<inf>0.84</inf>Na<inf>0.16</inf>MnO<inf>3</inf> films. , 2012, , .		0
65	Synthesis and Properties of AFe<inf>2</inf>O<inf>4</inf> (A = Mn, Fe, Co, Ni, Zn)-based nanoparticles coprecipitated from nonaqueous solutions. , 2012, , .		0
66	Thickness-dependent magnetotransport properties of La<inf>0.6S</inf>r<inf>0.2</inf>Mn<inf>1.2</inf>O<inf>3</inf> films on SrTiO<inf>3</inf> and LaAlO<inf>3</inf> substrates. , 2012, , .		0
67	Structural first-order transformation in La2/3Ba1/3MnO3: ESR study. Journal of Magnetism and Magnetic Materials, 2012, 324, 4225-4230.	2.3	3
68	Temperature curve of magnetization and left-handed properties of La0.775Sr0.225MnO3. Applied Physics Letters, 2012, 100, 171104.	3.3	6
69	Effect of nanoparticles agglomeration on electrical properties of La1â^'xAxMnO3 (AÂ=ÂSr, Ba) nanopowder and ceramic solid solutions. Solid State Sciences, 2012, 14, 501-505.	3.2	16
70	Complex phase separation in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>MnO<mml:math	3.2	16
71	Effect of A-site vacancies on the magnetoresistive Effect in La1 â^' x â^' y Ca x Na y MnO3 Â± Î´. Inorganic Materials, 2011, 47, 196-203.	0.8	0
72	Synthesis and electrical and magnetic properties of LaSr2Mn2 â^' y Ni y O7 â^' Î´ solid solutions. Inorganic Materials, 2011, 47, 431-434.	0.8	0

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73	Sol-gel synthesis and properties of tin-doped lanthanum manganites. Low Temperature Physics, 2011, 37, 107-111.	0.6	3
74	Mixed magnetic state of sodiumâ€•doped manganites and its transformation in the course of paraâ€•to ferromagnetic transition. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 24-28.	0.9	0
75	Highly anisotropic magnetic properties of ultrathin (La,Na) MnO₃ films on LaAlO₃ (001) substrates. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 151-153.	0.9	3
76	Current-induced magnetic and thermal effects in materials with combined magnetic and resistive transitions. Journal of Applied Physics, 2011, 109, .	2.5	5
77	Magnetoelectric effect in composite structures based on ferroelectricâ€“ferromagnetic perovskites. Journal of the European Ceramic Society, 2010, 30, 259-263.	5.7	25
78	Influence of miscut direction on magnetic anisotropy of magnetite films grown on vicinal MgO (100). Journal of Applied Physics, 2010, 107, 09B108.	2.5	8
79	Out-of-plane spin alighnment in ultrathin films of sodium-doped manganites as evidenced by FMR measurements. , 2010, , .		0
80	Negative permittivity and left-handed behavior of doped manganites in millimeter waveband. Applied Physics Letters, 2010, 97, .	3.3	21
81	Magnetic and magnetoresistive properties of sodium-substituted lanthanum manganites. Low Temperature Physics, 2010, 36, 220-225.	0.6	13
82	Left-handed behavior of strontium-doped lanthanum manganite in the millimeter waveband. Applied Physics Letters, 2009, 95, .	3.3	32
83	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
84	Peculiar features of electron spin resonance spectra in (Ca,Na)-doped lanthanum manganites. Low Temperature Physics, 2009, 35, 130-132.	0.6	5
85	Conduction mechanisms in partially crystallized (La,Na)MnO3 films. Low Temperature Physics, 2008, 34, 192-197.	0.6	4
86	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
87	Structural, electrical, and magnetic properties of La0.7Ca0.3 â^' x Na x MnO3 Â± Î³ solid solutions. Inorganic Materials, 2008, 44, 181-188.	0.8	16
88	Self-doped lanthanum manganites as a phase-separated system: Transformation of magnetic, resonance, and transport properties with doping and hydrostatic compression. Journal of Applied Physics, 2008, 104, .	2.5	90
89	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
90	Vacancy-induced enhancement of magnetic interactions in (Ca, Na)-doped lanthanum manganites. Journal of Applied Physics, 2007, 102, 063902.	2.5	25

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91	(La,Sr)(Mn,Me)O3 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
92	Substrate effect on the properties of La0.775Sr0.225MnO3 films. Inorganic Materials, 2007, 43, 1252-1257.	0.8	3
93	Crystallographic, electrical, and magnetic properties of the system La0.7Sr0.3Mn1âˆ'xFexO3. Low Temperature Physics, 2006, 32, 134-138.	0.6	21
94	Oxidation state of copper ions in (La0.7Sr0.3)(Mn1 âˆ' x Cux)O3 Â± Î´ ceramics and their magnetic properties. Inorganic Materials, 2006, 42, 286-293.	0.8	17
95	Structural, electrical, and magnetic properties of La0.7Sr0.3Mn1âˆ'y CryO3. Inorganic Materials, 2006, 42, 1121-1125.	0.8	9
96	Synthesis and characterization of La0.7Sr0.3Mn1âˆ'x TixO3 manganites. Physics of the Solid State, 2006, 48, 709-716.	0.6	16
97	Discrete deposition as a powerful tool to govern magnetoresistance of the doped manganite films. Journal of Applied Physics, 2005, 98, 043902.	2.5	16
98	Structural Peculiarities and Properties of (La,Sr)(Mn,Me)O3 (Me=Cu,Cr). , 2005, , 323-328.		0
99	Structure and Properties of Nonstoichiometric La_{1 â€“ x}Na_xMnO_{3 Â± Â}Solid Solutions. Inorganic Materials, 2004, 40, 744-750.	0.8	18
100	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
101	Title is missing!. Inorganic Materials, 2003, 39, 161-170.	0.8	27
102	Electrical and resonance properties of magnetically inhomogeneous La0.775Sr0.225MnO3âˆ'Î´ films. Physics of the Solid State, 2003, 45, 1952-1956.	0.6	6
103	Current-induced change in the character of the conduction in La0.775Sr0.225MnO3âˆ'Î´ films. Low Temperature Physics, 2003, 29, 563-565.	0.6	4
104	Giant resistance switching effect in nano-scale twinned La0.65Ca0.35MnO3 film. Low Temperature Physics, 2002, 28, 856-858.	0.6	4
105	Unusual substitutional properties of Cu in bulk polycrystalline samples of La0.7Ca0.3Mn1âˆ'xCuxO3âˆ'Î´. Low Temperature Physics, 2001, 27, 366-371.	0.6	6
106	Transport and Magnetoresistance Properties of Nanocrystalline La_{0.7}Ca_{0.3}MnO₃. Materials Science Forum, 2001, 373-376, 621-624.	0.3	1
107	Transport Properties of Doped Manganites in Case of Degraded Magnetic Transition. Materials Science Forum, 2001, 373-376, 613-616.	0.3	1
108	Sintering temperature dependence of the magnetoresistance in (La1 âˆ' xSrx)MnO3 âˆ' Î´ (x = 0.15â€“0.30) polycrystalline samples. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 525-526.	2.3	2

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109	Magnetoresistance in La1â^'xSrxMnO3â^'Î´ (x=0.15â€“0.30) polycrystalline samples. Journal of Magnetism and Magnetic Materials, 1999, 207, 118-120.	2.3	15
110	Anomalous transport behavior of La0.825Sr0.175MnO3â^'Î´ polycrystalline samples below Curie temperature. Low Temperature Physics, 1999, 25, 74-75.	0.6	5
111	Double-peaked character of the temperature dependence of resistance of perovskite manganites for a broadened ferromagnetic transition. Low Temperature Physics, 1999, 25, 962-965.	0.6	13
112	Anomalous magnetic behavior of the Co0.53Ga0.47 spin glass above the freezing temperature. Journal of Magnetism and Magnetic Materials, 1994, 130, 293-296.	2.3	3
113	Magnetocrystalline anisotropy in Y(Co0.85Al0.15)2with the C15 cubic Laves phase structure. Journal of Physics Condensed Matter, 1993, 5, 7009-7012.	1.8	1
114	Dynamics of low temperature magnetic behavior of Co0.53Ga0.47 alloy. Journal of Magnetism and Magnetic Materials, 1992, 110, 197-201.	2.3	4
115	Magnetotransport Properties of La_{0.6}Sr_{0.2}Mn_{1.2}O₃0.3 Films: Effects of Film Thickness and Substrate-Induced Strain. Solid State Phenomena, 0, 200, 239-244.		3
116	Quasistatic Magnetic Properties and Dynamic Hysteretic Losses in (La,Sr)MnO₃ Nanoparticles Fabricated by Different Technological Routes. Solid State Phenomena, 0, 230, 101-107.	0.3	0
117	AC Field Threshold Effect as a Key Factor towards the Efficient Heating of Fluids with NaFeO ‹sub›2‹/sub› Magnetic Nanoparticles. Particle and Particle Systems Characterization, 0, , 2200095.	2.3	1