

Dmitrii Tayurskii

List of Publications by Year in descending order

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96
papers

593
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687363

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752698

20
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98
all docs

98
docs citations

98
times ranked

564
citing authors

#	ARTICLE	IF	CITATIONS
1	On the superconductivity of graphite interfaces. JETP Letters, 2014, 100, 336-339.	1.4	61
2	ac susceptibility and static magnetization measurements of CeRu ₂ Si ₂ at small magnetic fields and ultralow temperatures. Physical Review B, 2003, 67, . Enhancement of Rashba coupling in vertical InGaAs/AlGaAs heterostructure	3.2	58
3	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > < mml:msub > < mml:mrow /> < mml:mrow > < mml:mn > 0.05 < /mml:mn > < /mml:mrow > < /mml:msub > < /mml:math > Ga < mml:math /> < mml:mrow > < mml:mn > 0.95 < /mml:mn > < /mml:mrow > < /mml:msub > < /mml:math > As/GaAs quantum dots. Physical Review B, 2011, 84, .	3.2	33
4	¹³ Ir-Phase Stabilized at Room Temperature by Thermally Processed Graphene Oxide. Journal of the American Chemical Society, 2018, 140, 9051-9055.	13.7	24
5	Two-dimensional electron gas at the interface of Ba _{0.8} Sr _{0.2} TiO ₃ ferroelectric and LaMnO ₃ antiferromagnet. JETP Letters, 2017, 106, 460-464.	1.4	23
6	Density functional theory calculations on azobenzene derivatives: a comparative study of functional group effect. Journal of Molecular Modeling, 2015, 21, 34.	1.8	22
7	Electronic properties of LaAlO ₃ /SrTiO ₃ n-type interfaces: a GGA+U study. Journal of Physics Condensed Matter, 2017, 29, 095501.	1.8	20
8	Observation of Persistent Currents in Finely Dispersed Pyrolytic Graphite. JETP Letters, 2018, 107, 37-41.	1.4	18
9	Magnetocaloric effect in single crystal GdTlO ₃ . Cryogenics, 2019, 101, 58-62.	1.7	17
10	Nuclear magnetic relaxation of ³ He in contact with an aerogel above the Fermi temperature. JETP Letters, 2008, 88, 823-827.	1.4	15
11	Ab initio investigation of electronic and magnetic properties of antiferromagnetic/ferroelectric LaMnO ₃ /BaTiO ₃ interface. Materials Research Express, 2020, 7, 055020.	1.6	15
12	High-Frequency Electron Paramagnetic Resonance of Tm ³⁺ ions in Lanthanum and Thulium Ethylsulphate Single Crystals. Physical Review Letters, 1996, 77, 3459-3462.	7.8	14
13	Oxygen vacancies and hydrogen doping in LaAlO ₃ /SrTiO ₃ heterostructures: electronic properties and impact on surface and interface reconstruction. Journal of Physics Condensed Matter, 2019, 31, 295601.	1.8	14
14	Anisotropic magnetic susceptibility and crystal field analysis in the Van Vleck paramagnet PrF ₃ . Journal of Physics Condensed Matter, 2006, 18, 6337-6347.	1.8	13
15	Possible Sound Mode Conversion in ⁴ He-97% Open Aerogel System. Journal of Low Temperature Physics, 2007, 148, 615-620.	1.4	10
16	Vibrational and magnetic properties of crystalline CuTe ₂ O ₅ . JETP Letters, 2015, 100, 652-656.	1.4	10
17	Magnetic resonant and non-resonant investigations of LiLnF ₄ (Ln = Y, Tm) powders. Applied Magnetic Resonance, 1998, 14, 525-544.	1.2	9
18	Observation of magnetic coupling between the nuclei of liquid ³ He and the ¹⁴¹ Pr nuclei of PrF ₃ crystalline powder. JETP Letters, 2007, 86, 416-419.	1.4	9

#	ARTICLE	IF	CITATIONS
19	Initial steps in reactions of aquathermolysis of cyclohexyl phenyl sulfide by means of ab initio calculations. Computational and Theoretical Chemistry, 2016, 1078, 138-145.	2.5	9
20	Magnetism and structural phase transitions in LiTmF ₄ powders. JETP Letters, 1997, 66, 266-270.	1.4	8
21	Porosity dependence of sound propagation in liquid-4He-filled aerogel. JETP Letters, 2004, 80, 109-113.	1.4	8
22	Structural Transitions in a Quasi-1D Wigner Solid on Liquid Helium. Journal of Low Temperature Physics, 2016, 182, 28-37.	1.4	8
23	Spectroscopy of Ba ⁺ ions in liquid 4He. AIP Advances, 2018, 8, .	1.3	8
24	A Nonextensive Approach to Bose-Einstein Condensation of Trapped Interacting Boson Gas. Journal of Low Temperature Physics, 2008, 150, 605-611.	1.4	7
25	Magnetic susceptibility of noninteracting fermions in a confined geometry. JETP Letters, 2000, 72, 616-620.	1.4	6
26	Title is missing!. Journal of Low Temperature Physics, 2001, 124, 257-269.	1.4	6
27	On the magnetism of liquid nitrogen–liquid oxygen mixture. Physica B: Condensed Matter, 2003, 329-333, 433-434.	2.7	6
28	Quantum fluids in nanoporous media—Effects of the confinement and fractal geometry. Science Bulletin, 2011, 56, 3617-3622.	1.7	6
29	Superfluid hydrodynamic in fractal dimension space. Journal of Physics: Conference Series, 2012, 394, 012004.	0.4	6
30	Origin of electron disproportionation in metallic sodium cobaltates. Physical Review B, 2016, 94, .	3.2	6
31	Analysis of Electronic and Structural Properties of Surfaces and Interfaces Based on LaAlO ₃ and SrTiO ₃ . Journal of Low Temperature Physics, 2016, 185, 597-602.	1.4	6
32	Towards high-temperature quasi-two-dimensional superconductivity. Physical Review B, 2018, 98, .	3.2	6
33	Nuclear Spin-Kinetics of ³ He in Carbonizates with Various Porosity. Journal of Low Temperature Physics, 2007, 148, 815-819.	1.4	5
34	EPR studies of the mechanochemically Er ³⁺ -activated fluorite nanoparticles. Journal of Physics: Conference Series, 2011, 324, 012026.	0.4	5
35	Vibrational properties and magnetic specific heat of the covalent chain antiferromagnet RbFeSe ₂ . Physical Review B, 2018, 98, .	3.2	5
36	Spin kinetics in paramagnets at low temperature. Physica Status Solidi (B): Basic Research, 1989, 152, 645-655.	1.5	4

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37	Magnetic coupling between liquid [³ He] and solid insulators (Review). <i>Low Temperature Physics</i> , 2002, 28, 299.	0.6	4
38	Ab initio simulation of helium inside carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2011, 324, 012040.	0.4	4
39	Low temperature adsorption of ³ He on silica aerogel surface and its influence on ³ He spin kinetics. <i>Journal of Physics: Conference Series</i> , 2011, 324, 012028.	0.4	4
40	On the thermodynamic equilibrium in the ³ He-aerogel system at low temperatures. <i>JETP Letters</i> , 2011, 93, 223-225.	1.4	4
41	A straightforward memory function calculation with the non-equilibrium statistical operator method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 175, 275-284.	2.6	3
42	Observation of coupled 4f-electron-phonon excitations in the Van Vleck paramagnet TmES in high magnetic fields. <i>JETP Letters</i> , 1998, 67, 1040-1045.	1.4	3
43	Effect of surface magnetism of solid-state substrates on the NMR of liquid ³ He. <i>JETP Letters</i> , 1999, 69, 539-545.	1.4	3
44	Ultrahigh-frequency NMR of Tm ³⁺ ions in single crystals of thulium ethylsulfate in high magnetic fields. <i>JETP Letters</i> , 2002, 76, 633-636.	1.4	3
45	Electron paramagnetic resonance of radiation-induced paramagnetic centers in an aerogel. <i>JETP Letters</i> , 2008, 88, 244-248.	1.4	3
46	Two-fluid hydrodynamic model for superfluids in fractal dimensions. <i>Journal of Physics: Conference Series</i> , 2009, 150, 032110.	0.4	3
47	Nonextensive Entropy of Quantum Liquid in Fractal Dimension Space. <i>Journal of Low Temperature Physics</i> , 2010, 158, 237-243.	1.4	3
48	Ab initio studying of topological insulator Bi ₂ Se ₃ under the stress. <i>Journal of Physics: Conference Series</i> , 2012, 394, 012022.	0.4	3
49	Ab-initio investigation of spin states of sodium cobaltate Na _{2/3} CoO ₂ . <i>Journal of Physics: Conference Series</i> , 2012, 394, 012019.	0.4	3
50	Coherent X-ray diffraction imaging of nanoengineered polymeric capsules. <i>JETP Letters</i> , 2017, 106, 540-543.	1.4	3
51	Vibrational properties and lattice specific heat of KFeS ₂ . <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
52	Density Functional Theory Approach to the Vibrational Properties and Magnetic Specific Heat of the Covalent Chain Antiferromagnet KFeS ₂ . <i>Molecules</i> , 2022, 27, 2663.	3.8	3
53	NMR and AFM investigations of nanocavities on the double rare-earth fluoride crystal surface. <i>Applied Magnetic Resonance</i> , 2000, 19, 197-208.	1.2	2
54	Magnetic field effects in optical and far IR spectra of LiTmF ₄ crystals. , 2002, , .		2

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55	Thermodynamic and magnetic properties of the confined neutral Fermi systems. Physica B: Condensed Matter, 2003, 329-333, 152-153.	2.7	2
56	PrF ₃ Van Vleck paramagnet as a promising material for the nuclear dynamic polarization of ³ He. Journal of Physics: Conference Series, 2006, 51, 79-82.	0.4	2
57	Effect of phase transitions of helium-3 in pores of wood carbonizate on the spin kinetics of ³ He nuclei. JETP Letters, 2006, 84, 41-44.	1.4	2
58	The study of the system "Van Vleck paramagnet PrF ₃ -Helium-3". Journal of Physics: Conference Series, 2009, 150, 032019.	0.4	2
59	Dynamic nuclear polarization with three electrons in a vertical double quantum dot. Physical Review B, 2013, 88, .	3.2	2
60	Pressure-induced ferroelastic phase transition in LuLiF ₄ compound. Phase Transitions, 2015, 88, 534-539.	1.3	2
61	Adsorption of Helium Atoms on Two-Dimensional Substrates. Journal of Low Temperature Physics, 2016, 185, 392-398.	1.4	2
62	Ferromagnetism and Persistent Currents in Finely Dispersed Highly Oriented Pyrolytic Graphite Samples. Russian Physics Journal, 2018, 61, 1247-1251.	0.4	2
63	Electronic Properties of a Two-Dimensional Electron Gas at the Interface between Transition Metal Complex Oxides. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 234-237.	0.6	2
64	Application of Nuclear Inelastic Scattering Spectroscopy to the Frequency Scale Calibration of Ab Initio Calculated Phonon Density of States of Quasi-One-Dimensional Ternary Iron Chalcogenide RbFeSe ₂ . Applied Sciences (Switzerland), 2020, 10, 7212.	2.5	2
65	3D structure reconstruction of nanoengineered polymeric capsules using Coherent X-Ray diffraction imaging. MethodsX, 2021, 8, 101230.	1.6	2
66	On the ab initio Calculations within DFT + U Approach of Physical Properties of a Compound with Strong Electron-electron Correlations by the Case of KFeS ₂ . JETP Letters, 2022, 115, 98.	1.4	2
67	A single-parameter model of the angular distribution of particles in magnetically oriented powders. Applied Magnetic Resonance, 1994, 6, 587-600.	1.2	1
68	Nuclear spin-lattice relaxation in finely dispersed carbonizate powders. JETP Letters, 2004, 79, 641-645.	1.4	1
69	Ultrahigh-frequency NMR of Tm ³⁺ ions in single crystals of thulium ethylsulfate at high magnetic fields. Physica B: Condensed Matter, 2004, 346-347, 231-235.	2.7	1
70	About anomalous ultrasound attenuation in aerogels filled in by liquid ⁴ He below T _λ . Journal of Physics: Conference Series, 2009, 150, 032109.	0.4	1
71	Cotunneling effects in GaAs vertical double quantum dots. JETP Letters, 2011, 93, 199-202.	1.4	1
72	Density functional theory simulation of liquid helium-4 in aerogel. JETP Letters, 2013, 98, 209-213.	1.4	1

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73	A Study of Mechanochemical Doping of Fluoride Crystals with a Fluorite Structure by Er ³⁺ Ions via Electron Paramagnetic Resonance Spectra. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2014, 116, 868-871.	0.78	14
74	Transport of electrons on liquid helium in a microchannel device near the current threshold. JETP Letters, 2016, 104, 323-328.	1.4	1
75	Structural and electronic properties of heterointerface composed of non-polar oxides: SrTiO ₃ and ferroelectric BaTiO ₃ . Ferroelectrics, 2019, 542, 7-12.	0.6	1
76	DFT and Mössbauer Spectroscopy Study of a FeTe _{0.5} Se _{0.5} Single Crystal. JETP Letters, 2019, 109, 266-269.	1.4	1
77	Tailoring quasi-two-dimensional high conductivity and superconductivity areas at the interfaces of ferroelectric/dielectric heterostructures. IOP Conference Series: Materials Science and Engineering, 2019, 699, 012026.	0.6	1
78	Structural and magnetic properties of ferroelectric/dielectric BaTiO ₃ /LaMnO ₃ and BaTiO ₃ /SrTiO ₃ heterostructures. Ferroelectrics, 2021, 575, 144-150.	0.6	1
79	Professor Kochelaev, Boris Ivanovich. Magnetic Resonance in Solids, 2019, 21, .	0.2	1
80	Critical behavior of the random Potts model. Journal of Applied Physics, 1994, 76, 6353-6355.	2.5	0
81	Spin-lattice relaxation time of Sc metal. Physica B: Condensed Matter, 2000, 284-288, 1708-1709.	2.7	0
82	About nuclear spin kinetics in solid at magnetic field. Physica B: Condensed Matter, 2003, 329-333, 398-399.	2.7	0
83	Study of anisotropic magnetic properties of LiTmF ₄ in (001) plane by enhanced ¹⁶⁹ Tm NMR and magnetization measurements. Journal of Physics: Conference Series, 2006, 51, 135-138.	0.4	0
84	Frequency dependence of fast mode ultrasound attenuation of liquid ⁴ He in aerogel. Journal of Physics: Conference Series, 2009, 150, 032054.	0.4	0
85	Study of energy fluctuation effect on the statistical mechanics of equilibrium systems. Journal of Physics: Conference Series, 2012, 394, 012006.	0.4	0
86	Ab initio investigation of phonon spectra in GdLiF ₄ compound under hydrostatic pressure. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2014, 116, 868-871.	0.6	0
87	On the reactions of cyclohexyl phenyl sulfide with water by means of density functional theory. AIP Conference Proceedings, 2015, , .	0.4	0
88	Clifford numbers from Bohr-Sommerfeld quantization of Grassmann-variant systems. JETP Letters, 2015, 102, 387-390.	1.4	0
89	Ab Initio Study of Deformation Influence on the Electronic Properties of Graphene Structures Containing One-Dimensional Topological Defects. Journal of Low Temperature Physics, 2016, 185, 712-716.	1.4	0
90	Vibrational properties and lattice specific heat of RbFeS ₂ . AIP Conference Proceedings, 2018, , .	0.4	0

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91	Structural, electronic, and magnetic properties of ferroelectric/dielectric heterostructures. IOP Conference Series: Materials Science and Engineering, 2019, 699, 012025.	0.6	0
92	Simulation of Quasi-One-Dimensional Wigner Solid Melting in a Parabolic Confinement. JETP Letters, 2019, 110, 697-701.	1.4	0
93	Cross-Relaxation in Paramagnetic Crystals at Low Temperatures. , 1990, , 144-145.		0
94	Professor Boris Zalmanovich Malkin. Magnetic Resonance in Solids, 2019, 21, .	0.2	0
95	Mesoscopic scale rearrangements of graphite nanoflake open edges under mild annealing treatments. Vacuum, 2022, 199, 110977.	3.5	0
96	<i>Ab initio</i> investigation of structural and electronic properties of BaTiO ₃ /Si heterostructure. Ferroelectrics, 2022, 590, 66-72.	0.6	0