

Dmitrii Tayurskii

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/529562/publications.pdf>

Version: 2024-02-01

96
papers

593
citations

687363

13
h-index

752698

20
g-index

98
all docs

98
docs citations

98
times ranked

564
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Mesoscopic scale rearrangements of graphite nanoflake open edges under mild annealing treatments. Vacuum, 2022, 199, 110977.	3.5	0
3	Density Functional Theory Approach to the Vibrational Properties and Magnetic Specific Heat of the Covalent Chain Antiferromagnet KFeS ₂ . Molecules, 2022, 27, 2663.	3.8	3
4	Ab initio investigation of structural and electronic properties of BaTiO ₃ /Si heterostructure. Ferroelectrics, 2022, 590, 66-72.	0.6	0
5	3D structure reconstruction of nanoengineered polymeric capsules using Coherent X-Ray diffraction imaging. MethodsX, 2021, 8, 101230.	1.6	2
6	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
7	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
8	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
9	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
10	Magnetocaloric effect in single crystal GdTiO ₃ . Cryogenics, 2019, 101, 58-62.	1.7	17
11	DFT and Mössbauer Spectroscopy Study of a FeTe _{0.5} Se _{0.5} Single Crystal. JETP Letters, 2019, 109, 266-269.	1.4	1
12	Structural, electronic, and magnetic properties of ferroelectric/dielectric heterostructures. IOP Conference Series: Materials Science and Engineering, 2019, 699, 012025.	0.6	0
13	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
14	Simulation of Quasi-One-Dimensional Wigner Solid Melting in a Parabolic Confinement. JETP Letters, 2019, 110, 697-701.	1.4	0
15	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
16	Professor Kochelaev, Boris Ivanovich. Magnetic Resonance in Solids, 2019, 21, .	0.2	1
17	Professor Boris Zalmanovich Malkin. Magnetic Resonance in Solids, 2019, 21, .	0.2	0
18	Observation of Persistent Currents in Finely Dispersed Pyrolytic Graphite. JETP Letters, 2018, 107, 37-41.	1.4	18

#	ARTICLE	IF	CITATIONS
19	Vibrational properties and lattice specific heat of KFeS ₂ . AIP Conference Proceedings, 2018, , .	0.4	3
20	Vibrational properties and lattice specific heat of RbFeS ₂ . AIP Conference Proceedings, 2018, , .	0.4	0
21	Ferromagnetism and Persistent Currents in Finely Dispersed Highly Oriented Pyrolytic Graphite Samples. Russian Physics Journal, 2018, 61, 1247-1251.	0.4	2
22	Vibrational properties and magnetic specific heat of the covalent chain antiferromagnet RbFeSe ₂ . Physical Review B, 2018, 98, .	3.2	5
23	Towards high-temperature quasi-two-dimensional superconductivity. Physical Review B, 2018, 98, .	3.2	6
24	Spectroscopy of Ba ⁺ ions in liquid 4He. AIP Advances, 2018, 8, .	1.3	8
25	⁵⁷ Fe-Phase Stabilized at Room Temperature by Thermally Processed Graphene Oxide. Journal of the American Chemical Society, 2018, 140, 9051-9055.	13.7	24
26	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
27	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
28	Coherent X-ray diffraction imaging of nanoengineered polymeric capsules. JETP Letters, 2017, 106, 540-543.	1.4	3
29	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
30	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
31	Transport of electrons on liquid helium in a microchannel device near the current threshold. JETP Letters, 2016, 104, 323-328.	1.4	1
32	Origin of electron disproportionation in metallic sodium cobaltates. Physical Review B, 2016, 94, .	3.2	6
33	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
34	Adsorption of Helium Atoms on Two-Dimensional Substrates. Journal of Low Temperature Physics, 2016, 185, 392-398.	1.4	2
35	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
36	Structural Transitions in a Quasi-1D Wigner Solid on Liquid Helium. Journal of Low Temperature Physics, 2016, 182, 28-37.	1.4	8

#	ARTICLE	IF	CITATIONS
37	On the reactions of cyclohexyl phenyl sulfide with water by means of density functional theory. AIP Conference Proceedings, 2015, , .	0.4	0
38	Clifford numbers from Bohr's Sommerfeld quantization of Grassmann-variant systems. JETP Letters, 2015, 102, 387-390.	1.4	0
39	Density functional theory calculations on azobenzene derivatives: a comparative study of functional group effect. Journal of Molecular Modeling, 2015, 21, 34.	1.8	22
40	Vibrational and magnetic properties of crystalline CuTe ₂ O ₅ . JETP Letters, 2015, 100, 652-656.	1.4	10
41	Pressure-induced ferroelastic phase transition in LuLi ₄ compound. Phase Transitions, 2015, 88, 534-539.	1.3	2
42	On the superconductivity of graphite interfaces. JETP Letters, 2014, 100, 336-339.	1.4	61
43	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.	0.6	0
44	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
45	Density functional theory simulation of liquid helium-4 in aerogel. JETP Letters, 2013, 98, 209-213.	1.4	1
46	Dynamic nuclear polarization with three electrons in a vertical double quantum dot. Physical Review B, 2013, 88, .	3.2	2
47	Ab initio studying of topological insulator Bi ₂ Se ₃ under the stress. Journal of Physics: Conference Series, 2012, 394, 012022.	0.4	3
48	Study of energy fluctuation effect on the statistical mechanics of equilibrium systems. Journal of Physics: Conference Series, 2012, 394, 012006.	0.4	0
49	Ab-initio investigation of spin states of sodium cobaltate Na _{2/3} CoO ₂ . Journal of Physics: Conference Series, 2012, 394, 012019.	0.4	3
50	Superfluid hydrodynamic in fractal dimension space. Journal of Physics: Conference Series, 2012, 394, 012004.	0.4	6
51	Ab initio simulation of helium inside carbon nanotubes. Journal of Physics: Conference Series, 2011, 324, 012040.	0.4	4
52	EPR studies of the mechanochemically Er ³⁺ -activated fluorite nanoparticles. Journal of Physics: Conference Series, 2011, 324, 012026.	0.4	5
53	Low temperature adsorption of ³ He on silica aerogel surface and its influence on ³ He spin kinetics. Journal of Physics: Conference Series, 2011, 324, 012028.	0.4	4
54	On the thermodynamic equilibrium in the ³ He-aerogel system at low temperatures. JETP Letters, 2011, 93, 223-225.	1.4	4

#	ARTICLE	IF	CITATIONS
55	Cotunneling effects in GaAs vertical double quantum dots. JETP Letters, 2011, 93, 199-202.	1.4	1
56	Quantum fluids in nanoporous media – Effects of the confinement and fractal geometry. Science Bulletin, 2011, 56, 3617-3622.	1.7	6
57	Enhancement of Raman coupling in vertical InGaAs/GaAs quantum dots. $\langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.05 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Ga} \langle \text{mml:math} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.95 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{As/GaAs quantum dots. Physical Review B, 2011, 84,$	3.2	33
58	Nonextensive Entropy of Quantum Liquid in Fractal Dimension Space. Journal of Low Temperature Physics, 2010, 158, 237-243.	1.4	3
59	Frequency dependence of fast mode ultrasound attenuation of liquid ^4He in aerogel. Journal of Physics: Conference Series, 2009, 150, 032054.	0.4	0
60	The study of the system "Van Vleck paramagnet PrF_3 -Helium-3". Journal of Physics: Conference Series, 2009, 150, 032019.	0.4	2
61	Two-fluid hydrodynamic model for superfluids in fractal dimensions. Journal of Physics: Conference Series, 2009, 150, 032110.	0.4	3
62	About anomalous ultrasound attenuation in aerogels filled in by liquid ^4He below T_λ . Journal of Physics: Conference Series, 2009, 150, 032109.	0.4	1
63	A Nonextensive Approach to Bose-Einstein Condensation of Trapped Interacting Boson Gas. Journal of Low Temperature Physics, 2008, 150, 605-611.	1.4	7
64	Electron paramagnetic resonance of radiation-induced paramagnetic centers in an aerogel. JETP Letters, 2008, 88, 244-248.	1.4	3
65	Nuclear magnetic relaxation of ^3He in contact with an aerogel above the Fermi temperature. JETP Letters, 2008, 88, 823-827.	1.4	15
66	Observation of magnetic coupling between the nuclei of liquid ^3He and the ^{141}Pr nuclei of PrF_3 crystalline powder. JETP Letters, 2007, 86, 416-419.	1.4	9
67	Nuclear Spin-Kinetics of ^3He in Carbonizates with Various Porosity. Journal of Low Temperature Physics, 2007, 148, 815-819.	1.4	5
68	Possible Sound Mode Conversion in ^4He -97% Open Aerogel System. Journal of Low Temperature Physics, 2007, 148, 615-620.	1.4	10
69	PrF_3 Van Vleck paramagnet as a promising material for the nuclear dynamic polarization of ^3He . Journal of Physics: Conference Series, 2006, 51, 79-82.	0.4	2
70	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
71	Effect of phase transitions of helium-3 in pores of wood carbonizate on the spin kinetics of ^3He nuclei. JETP Letters, 2006, 84, 41-44.	1.4	2
72	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

#	ARTICLE	IF	CITATIONS
73	Nuclear spin-lattice relaxation in finely dispersed carbonizate powders. JETP Letters, 2004, 79, 641-645.	1.4	1
74	Porosity dependence of sound propagation in liquid-4He-filled aerogel. JETP Letters, 2004, 80, 109-113.	1.4	8
75	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
76	Thermodynamic and magnetic properties of the confined neutral Fermi systems. Physica B: Condensed Matter, 2003, 329-333, 152-153.	2.7	2
77	About nuclear spin kinetics in solid at magnetic field. Physica B: Condensed Matter, 2003, 329-333, 398-399.	2.7	0
78	On the magnetism of liquid nitrogen-liquid oxygen mixture. Physica B: Condensed Matter, 2003, 329-333, 433-434.	2.7	6
79	ac susceptibility and static magnetization measurements of CeRu ₂ Si ₂ at small magnetic fields and ultralow temperatures. Physical Review B, 2003, 67, .	3.2	58
80	Magnetic field effects in optical and far IR spectra of LiTmF ₄ crystals. , 2002, , .		2
81	Magnetic coupling between liquid [³ He] and solid insulators (Review). Low Temperature Physics, 2002, 28, 299.	0.6	4
82	Ultrahigh-frequency NMR of Tm ³⁺ ions in single crystals of thulium ethylsulfate in high magnetic fields. JETP Letters, 2002, 76, 633-636.	1.4	3
83	Title is missing!. Journal of Low Temperature Physics, 2001, 124, 257-269.	1.4	6
84	Spin-lattice relaxation time of Sc metal. Physica B: Condensed Matter, 2000, 284-288, 1708-1709.	2.7	0
85	Magnetic susceptibility of noninteracting fermions in a confined geometry. JETP Letters, 2000, 72, 616-620.	1.4	6
86	NMR and AFM investigations of nanocavities on the double rare-earth fluoride crystal surface. Applied Magnetic Resonance, 2000, 19, 197-208.	1.2	2
87	Effect of surface magnetism of solid-state substrates on the NMR of liquid ³ He. JETP Letters, 1999, 69, 539-545.	1.4	3
88	Observation of coupled 4f-electron-phonon excitations in the Van Vleck paramagnet TmES in high magnetic fields. JETP Letters, 1998, 67, 1040-1045.	1.4	3
89	Magnetic resonant and non-resonant investigations of LiLnF ₄ (Ln = Y, Tm) powders. Applied Magnetic Resonance, 1998, 14, 525-544.	1.2	9
90	Magnetism and structural phase transitions in LiTmF ₄ powders. JETP Letters, 1997, 66, 266-270.	1.4	8

#	ARTICLE	IF	CITATIONS
91	High-Frequency Electron Paramagnetic Resonance of Tm ³⁺ Ions in Lanthanum and Thulium Ethylsulphate Single Crystals. <i>Physical Review Letters</i> , 1996, 77, 3459-3462.	7.8	14
92	Critical behavior of the random Potts model. <i>Journal of Applied Physics</i> , 1994, 76, 6353-6355.	2.5	0
93	A single-parameter model of the angular distribution of particles in magnetically oriented powders. <i>Applied Magnetic Resonance</i> , 1994, 6, 587-600.	1.2	1
94	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
95	Cross-Relaxation in Paramagnetic Crystals at Low Temperatures. , 1990, , 144-145.		0
96	Spin kinetics in paramagnets at low temperature. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 152, 645-655.	1.5	4