Murat S Tagirov

List of Publications by Year
in descending order

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84	515	840776 11	888059 17
papers	citations	h-index	g-index

87	87	87	300
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math>Spin Superfluidity in Antiferromagnets. Physical Review Letters, 2012, 108, 177002.	7.8	49
2	Discovery of the classical Bose-Einstein condensation of magnons in solid antiferromagnets. JETP Letters, 2011, 94, 68-72.	1.4	27
3	Experimental proof of the existence of water clusters in fullerene-like PrF3 nanoparticles. JETP Letters, 2012, 96, 181-183.	1.4	19
4	Spin Kinetics of 3He in Contact with Synthesized PrF3 Nanoparticles. Journal of Low Temperature Physics, 2011, 162, 645-652.	1.4	16
5	Nuclear magnetic relaxation of 3He in contact with an aerogel above the Fermi temperature. JETP Letters, 2008, 88, 823-827.	1.4	15
6	Anisotropic magnetic susceptibility and crystal field analysis in the Van Vleck paramagnet PrF3. Journal of Physics Condensed Matter, 2006, 18, 6337-6347.	1.8	13
7	Magnetic properties of Dy3+ions and crystal field characterization in YF3:Dy3+and DyF3single crystals. Journal of Physics Condensed Matter, 2008, 20, 485220.	1.8	13
8	Size effect in the (PrF3 nanoparticles-3He) system. JETP Letters, 2013, 97, 579-582.	1.4	13
9	Microwave-Assisted Hydrothermal Synthesis and Annealing of DyF₃Nanoparticles. Journal of Nanomaterials, 2016, 2016, 1-5.	2.7	12
10	141Pr and 169 Tm NMR study of superconducting PrCeCuO and TmBaCuO. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1107-1108.	1.2	11
11	Determination of the spatial structure of glutathione by residual dipolar coupling analysis. Magnetic Resonance in Chemistry, 2005, 43, 948-951.	1.9	11
12	Magnon BEC in Antiferromagnets with Suhlâ€“Nakamura Interaction. Journal of Low Temperature Physics, 2014, 175, 167-176.	1.4	11
13	Goldstone mode of a magnon Boseâ^'Einstein condensate in MnCO3. JETP Letters, 2017, 106, 677-681.	1.4	11
14	Angstrom-scale probing of paramagnetic centers location in nanodiamonds by ³He NMR at low temperatures. Physical Chemistry Chemical Physics, 2018, 20, 1476-1484.	2.8	11
15	169Tm NMR study of the high-Tc superconductor TmBa2Cu3O6.92. Applied Magnetic Resonance, 1991, 2, 559-569.	1.2	10
16	The use of a lyotropic liquid-crystalline medium and residual dipolar coupling constants for determination of the spatial structure of thiacalix[4]arenes in solutions. Russian Chemical Bulletin, 2004, 53, 1466-1470.	1.5	10
17	Magnon Bose-Einstein condensation in CsMnF₃and MnCO₃. Journal of Physics: Conference Series, 2011, 324, 012006.	0.4	10
18	Nuclear pseudoquadrupole resonance of 141Pr in Van Vleck paramagnet PrF3. JETP Letters, 2011, 94, 240-242.	1.4	10

#	Article	IF	Citations
19	Annealing of PrF3 nanoparticles by microwave irradiation. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	10
20	Search for the ac Josephson effect in superfluidHe3. Physical Review B, 1983, 28, 6536-6538.	3.2	9
21	Magnetic resonant and non-resonant investigations of LiLnF4 (Ln = Y, Tm) powders. Applied Magnetic Resonance, 1998, 14, 525-544.	1.2	9
22	Insulating Van Vleck paramagnets at high magnetic fields (Review). Low Temperature Physics, 2002, 28, 147-164.	0.6	9
23	Observation of magnetic coupling between the nuclei of liquid 3He and the 141Pr nuclei of PrF3 crystalline powder. JETP Letters, 2007, 86, 416-419.	1.4	9
24	Thermal modification of wood and a complex study of its properties by magnetic resonance and other methods. Wood Science and Technology, 2016, 50, 895-916.	3.2	9
25	Spin Kinetics of Liquid 3He in Contact with a DyF3 Micropowder at Ferromagnetic Ordering of Dy3+ Ions. JETP Letters, 2018, 107, 111-114.	1.4	9
26	Magnetism and structural phase transitions in LiTmF4 powders. JETP Letters, 1997, 66, 266-270.	1.4	8
27	Electron paramagnetic resonance of Gd3+ ions in powders of LaF3:Gd3+ nanocrystals. JETP Letters, 2014, 99, 149-152.	1.4	8
28	Pulse NMR of³He in aerogel at temperature 1.5 K. Journal of Physics: Conference Series, 2009, 150, 032043.	0.4	7
29	NMR of Liquid 3He in Pores of a Clay Sample. Applied Magnetic Resonance, 2010, 38, 271-278.	1.2	7
30	Experimental Setup for Observation the Boseâ€“Einstein Condensation of Magnons in Solid Antiferromagnets CsMnF3 and MnCO3. Applied Magnetic Resonance, 2013, 44, 595-603.	1.2	7
31	Anomalous nuclear spinâ€“lattice relaxation of 3ÐÐµ in contact with ordered Al2O3 aerogel. JETP Letters, 2016, 104, 315-318.	1.4	7
32	Investigations of dielectric Van Vleck paramagnets at high magnetic fields and low temperatures. Physica B: Condensed Matter, 2000, 284-288, 1686-1687.	2.7	6
33	On the magnetism of liquid nitrogenâ€“liquid oxygen mixture. Physica B: Condensed Matter, 2003, 329-333, 433-434.	2.7	6
34	Revised Measurements and Interpretation of Magnetic Properties of Oriented CeF $$_{3}$$ 3 Single Crystals. Journal of Low Temperature Physics, 2016, 185, 603-608.	1.4	6
35	The self-assembly of DyF3 nanoparticles synthesized by chloride-based route. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	6
36	Determination of pores properties in rocks by means of helium-3 NMR: A case study of oil-bearing arkosic conglomerate from North belt of crude oil, Republic of Cuba. Journal of Petroleum Science and Engineering, 2022, 210, 110010.	4.2	6

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37	Nuclear Spin-Kinetics of 3He in Carbonizates withÂVarious Porosity. Journal of Low Temperature Physics, 2007, 148, 815-819.	1.4	5
38	Helium-3 gas self-diffusion in a nematically ordered aerogel at low temperatures: enhanced role of adsorption. Physical Chemistry Chemical Physics, 2017, 19, 23146-23153.	2.8	5
39	Critical current ofHe3-Ain narrow channels. Physical Review B, 1982, 26, 5233-5236.	3.2	4
40	Magnetic coupling between liquid [sup 3]He and solid insulators (Review). Low Temperature Physics, 2002, 28, 299.	0.6	4
41	Anisotropic magnetization of the Van Vleck paramagnet LiTmF₄at low temperatures and high magnetic fields. Journal of Physics Condensed Matter, 2008, 20, 395223.	1.8	4
42	Low temperature adsorption of3He on silica aerogel surface and its influence on3He spin kinetics. Journal of Physics: Conference Series, 2011, 324, 012028.	0.4	4
43	On the thermodynamic equilibrium in the 3He-aerogel system at low temperatures. JETP Letters, 2011, 93, 223-225.	1.4	4
44	Bose-Einstein condensation in antiferromagnets at low temperatures. Journal of Physics: Conference Series, 2014, 568, 042001.	0.4	4
45	The Calcium Carbonate Geological Samples Study by 3He NMR. Applied Magnetic Resonance, 2017, 48, 723-729.	1.2	4
46	Peculiarities of magnetic ordering in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>5</mml:mn></mml:mr two-dimensional square-lattice antimonate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>NaMnSb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	4
47	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
48	Magnetic properties of the Ising dipole ferromagnet LiTbF4. Physics of the Solid State, 2002, 44, 1544-1549.	0.6	3
49	Ultrahigh-frequency NMR of Tm3+ ions in single crystals of thulium ethylsulfate in high magnetic fields. JETP Letters, 2002, 76, 633-636.	1.4	3
50	The possible dynamic polarization of nuclei by using coal surface paramagnetic centers. Physica B: Condensed Matter, 2003, 329-333, 1237-1238.	2.7	3
51	NMR study of enriched 195Pt metal. Physica B: Condensed Matter, 2003, 329-333, 1101-1102.	2.7	3
52	Electron paramagnetic resonance of radiation-induced paramagnetic centers in an aerogel. JETP Letters, 2008, 88, 244-248.	1.4	3
53	Atomic type magnon Bose-Einstein condensation in antiferromagnet.. Journal of Physics: Conference Series, 2012, 400, 032001.	0.4	3
54	Magnetic and magnetoelastic properties of LiDyF₄single crystals. Journal of Physics: Conference Series, 2013, 478, 012026.	0.4	3

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55	EPR study of ordered Al2O3-based aerogel. JETP Letters, 2015, 102, 628-631.	1.4	3
56	Magnetic resonance of 3He nuclei in porous media. Low Temperature Physics, 2015, 41, 50-57.	0.6	3
57	New Aspects of Physics of Magnetic Resonance and Its Applications. Applied Magnetic Resonance, 2017, 48, 621-623.	1.2	3
58	NMR and AFM investigations of nanocavities on the double rare-earth fluoride crystal surface. Applied Magnetic Resonance, 2000, 19, 197-208.	1.2	2
59	Magnetic field effects in optical and far IR spectra of LiTmF 4 crystals. , 2002, , .		2
60	PrF3Van Vleck paramagnet as a promising material for the nuclear dynamic polarization of3He. Journal of Physics: Conference Series, 2006, 51, 79-82.	0.4	2
61	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
62	The study of the system "Van Vleck paramagnet PrF₃-Helium-3". Journal of Physics: Conference Series, 2009, 150, 032019.	0.4	2
63	NMR, high frequency EPR and magnetization studies of YF3:Tm3+and TmF3. Journal of Physics: Conference Series, 2011, 324, 012033.	0.4	2
64	The spin kinetics of³He in contact with nanosized crystalline powders LaF₃. Journal of Physics: Conference Series, 2014, 568, 012001.	0.4	2
65	The influence of restricted geometry of diamagnetic nanoporous media on3He relaxation. Low Temperature Physics, 2015, 41, 39-42.	0.6	2
66	From Current Researches to Future Applications. Applied Magnetic Resonance, 2018, 49, 533-536.	1.2	2
67	Nuclear magnetic relaxation in rare-earth compound crystals due to fluctuations of hyperfine magnetic fields. Hyperfine Interactions, 1990, 59, 255-270.	0.5	1
68	A single-parameter model of the angular distribution of particles in magnetically oriented powders. Applied Magnetic Resonance, 1994, 6, 587-600.	1.2	1
69	Nuclear spin-lattice relaxation in finely dispersed carbonizate powders. JETP Letters, 2004, 79, 641-645.	1.4	1
70	Ultrahigh-frequency NMR of Tm3+ ions in single crystals of thulium ethylsulfate at high magnetic fields. Physica B: Condensed Matter, 2004, 346-347, 231-235.	2.7	1
71	19F NMR study of LiTbF4single crystals. Journal of Physics: Conference Series, 2011, 324, 012034.	0.4	1
72	Magnon Bose-Einstein condensation at inhomogeneous conditions. Journal of Physics: Conference Series, 2013, 478, 012004.	0.4	1

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73	Multipole interactions in a LiTmF4 single crystal. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overloc	0.6	1
74	Comments on the cross-relaxation effect between adsorbed3He and PrF3nanoparticles. Low Temperature Physics, 2015, 41, 47-49.	0.6	1
75	Proton NMR of water colloidal solutions of nanosized crystalline LaF3and LaF3:Gd3+particles. Low Temperature Physics, 2015, 41, 67-69.	0.6	1
76	The 55Mn Spin Echo Test of Magnon BEC State in MnCO3. Applied Magnetic Resonance, 2017, 48, 625-633.	1.2	1
77	The³He nuclear magnetic relaxation in nematically ordered Al₂O₃ aerogels: effects of ⁴He and nitrogen pre-plating. Journal of Physics Condensed Matter, 2021, 33, 195805.	1.8	1
78	Anisotropic reduced diffusion in dilute liquid ³Heâ€“⁴He mixture in ordered aerogel. Journal of Physics Condensed Matter, 2020, 33, 065101.	1.8	1
79	1H NMR study of static and fluctuating internal Magnetic fields in Tb(C2H5SO4)3 Â· 9 H2O ising ferromagnet. Applied Magnetic Resonance, 1990, 1, 113-127.	1.2	0
80	Study of anisotropic magnetic properties of LiTmF4in (001) plane by enhanced 169Tm NMR and magnetization measurements. Journal of Physics: Conference Series, 2006, 51, 135-138.	0.4	0
81	Current problems in magnetic resonance and its applications: Anatole Abragam, Evgenii Zavoiskii, Kazan. Low Temperature Physics, 2015, 41, 1-3.	0.6	0
82	Crystal field simulation and NMR study of19F in a EuF3Van Vleck paramagnet. Low Temperature Physics, 2015, 41, 58-61.	0.6	0
83	Reply to â€˜Comment on â€œAngstrom-scale probing of paramagnetic centers location in nanodiamonds by ³He NMR at low temperaturesâ€â€™ by A. Shames, V. Osipov and A. Panich, Phys. Chem. Chem. Phys. 2018, 20, DOI: 10.1039/c8cp03331e. Physical Chemistry Chemical Physics, 2018, 20, 27697-27699.	2.8	0
84	XVI International Youth Scientific School â€˜Actual Problems of Magnetic Resonance and its Applicationsâ€™. Journal of Physics: Conference Series, 2013, 478, 011001.	0.4	0