Anatoly Tsvyashchenko

List of Publications by Year
in descending order

57	646	567144 15	610775 24
papers	citations	h-index	g-index

57	57	57	616
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chiral Properties of Structure and Magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Mn</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mi> When the Left and the Right are Fighting: Who Wins?. Physical Review Letters, 2013, 110, 207201.	2.9	111
2	Neutron diffraction study of the chiral magnet MnGe. Physical Review B, 2012, 85, .	1.1	68
3	High-pressure phase ofCeRu2:â€ƒA magnetic superconductor with two charge states of Ru ions. Physical Review B, 2002, 65, .	1.1	38
4	Two-step pressure-induced collapse of magnetic order in the MnGe chiral magnet. Physical Review B, 2014, 89, .	1.1	36
5	Stress-induced magnetic textures and fluctuating chiral phase in MnGe chiral magnet. Physical Review B, 2014, 90, .	1.1	36
6	Flip of spin helix chirality and ferromagnetic state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow> <mml:mn>1</mml:mn> Physical Review B, 2014, 90, .	1.1	34
7	Magnetic ground state and spin fluctuations in MnGe chiral magnet as studied by muon spin rotation. Physical Review B, 2016, 93, .	1.1	26
8	Magnetovolume effect, macroscopic hysteresis, and moment collapse in the paramagnetic state of cubic MnGe under pressure. Physical Review B, 2016, 93, .	1.1	20
9	Spin-wave dynamics in the helimagnet FeGe studied by small-angle neutron scattering. Physical Review B, 2017, 95, .	1.1	20
10	Partial ordering and phase elasticity in the MnGe short-period helimagnet. Physical Review B, 2019, 99, .	1.1	18
11	Long-period helical structures and twist-grain boundary phases induced by chemical substitution in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mrow><mml:mn>1</mml:mn> chiral magnet. Physical Review B, 2017, 96, .	1.1	17
12	New ferromagnetic compound CaCo2 (C15) synthesized at high pressure. JETP Letters, 1998, 68, 908-914.	0.4	16
13	Interplay between magnetism and superconductivity and the appearance of a second superconducting transition in Î±-FeSe at high pressure. Journal of Physics Condensed Matter, 2009, 21, 415701.	0.7	15
14	Lowering of the spatial symmetry at theÎ³â†'Î±phase transition in cerium. Physical Review B, 2010, 82, .	1.1	15
15	Crystal structure and thermal expansion of Mn1â^'xFexGe. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 676-680.	0.5	15
16	Band Structure of Hexagonal Tantalum Nitride. Physica Status Solidi (B): Basic Research, 1980, 100, 99-102.	0.7	14
17	Magnetic, electronic, and transport properties of the high-pressure-synthesized chiral magnets Mn1â^'xRhxGe. Physical Review B, 2018, 98, .	1.1	13
18	Hall-Effect study of YNi2B2C superconductor. Journal of Low Temperature Physics, 1996, 105, 1647-1652.	0.6	10

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19	Magnetic fields at 181Ta nuclei in Laves phases of RFe2 (R=Nd, Pr, Sm, Gd, Dy, Yb, Lu). Journal of Experimental and Theoretical Physics, 1997, 84, 599-602.	0.2	10
20	Cd111time-differential perturbed angular correlation study of pressure-induced valence changes inYbAl2. Physical Review B, 2007, 76, .	1.1	10
21	Thermal expansion of monogermanides of 3d-metals. Journal of Physics Condensed Matter, 2016, 28, 375401.	0.7	8
22	Hyperfine Field and Induced Moment of 181Ta in the Rare Earth - Iron Laves Compounds. Australian Journal of Physics, 1998, 51, 175.	0.6	8
23	Incommensurate antiferromagnetism induced by a charge density wave in the cubic phase ofTbGe2.85. Physical Review B, 2015, 92, .	1.1	7
24	Hyperfine interactions for181Ta nuclei in the laves phases LuFe2 and GdFe2. Hyperfine Interactions, 1990, 59, 521-523.	0.2	6
25	Pressure generation by a doubleâ€stage system using sintered diamond as the last stage anvil. Review of Scientific Instruments, 1992, 63, 2311-2314.	0.6	6
26	Towards anab initiotheory for the temperature dependence of electric field gradients in solids: Application to hexagonal lattices of Zn and Cd. Physical Review B, 2020, 101, .	1.1	6
27	Superconductivity in the Ba1â^'x LaxPbO3 system. Physics of the Solid State, 2001, 43, 613-615.	0.2	5
28	Evidence of Spontaneous Co Moment in a Rare-Earthâ€“Cobalt Laves Phase Compound:59Co NMR Study of LaCo2. Journal of the Physical Society of Japan, 2002, 71, 2117-2120.	0.7	5
29	Nuclear 111Cd probes detect a hidden symmetry change at the Î³ â†' Î± transition in cerium considered isostructural for 60 years. Journal of Experimental and Theoretical Physics, 2010, 111, 627-634.	0.2	5
30	Magnetism and superconductivity in EuFe₂As₂ synthesized under high pressure. Physica Status Solidi (B): Basic Research, 2013, 250, 589-592.	0.7	5
31	Charge and magnetic states of Ni ions in theGdNi2sLaves phase synthesized at different pressures. Physical Review B, 1997, 55, 6377-6381.	1.1	4
32	Electron and phonon properties of noncentrosymmetric RhGe from ab initio calculations. Journal of Magnetism and Magnetic Materials, 2019, 470, 127-130.	1.0	4
33	MÃ¶ssbauer test ofTinvariance inYb171. Physical Review C, 2007, 76, .	1.1	3
34	Investigation of the Mesostructure of Transition-Metal Monogermanides Synthesized under Pressure. Physics of the Solid State, 2018, 60, 751-757.	0.2	3
35	Suppression of the bulk high spinâ€“low spin transition by doping the chiral magnet MnGe. Physical Review B, 2019, 100, .	1.1	3
36	Dualism of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:m electrons and its relation to high-temperature antiferromagnetism in the heavy-fermion compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">YbCoC</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 101, .	1.1	3

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37	Magnetic hyperfine fields acting on diamagnetic119Sn impurity in rare-earth-3d transition metal laves phases, crystallized under high pressure. Hyperfine Interactions, 1990, 59, 399-402.	0.2	2
38	Low Temperature Specific Heat of RMn2Compounds with the Hexagonal C14 Structure (R=Y, Yb and Th). Journal of the Physical Society of Japan, 1997, 66, 2175-2177.	0.7	2
39	The electronic structure and optical and magnetooptical properties of the CaCo2 compound synthesized at a high pressure: Experiment and theory. Journal of Experimental and Theoretical Physics, 2005, 100, 983-991.	0.2	2
40	The electric quadrupole interaction of 111Cd in ZrZn2 and Zn in the samples prepared at 8ÂGPa. Hyperfine Interactions, 2006, 171, 269-275.	0.2	2
41	Hyperfine field assessment of the magnetic structure ofZrZn2. Physical Review B, 2015, 91, .	1.1	2
42	High-pressure single-crystal synchrotron diffraction study of MnGe and related compounds. Journal of Physics Condensed Matter, 2017, 29, 085401.	0.7	2
43	On the Nature of Defects in Mn1 â€“xFexGe Compounds Synthesized under High Pressure. Journal of Surface Investigation, 2020, 14, 429-433.	0.1	2
44	Hall-Effect study of YbNi2B2C borocarbide. Ferroelectrics, 2000, 247, 163-169.	0.3	1
45	Structural properties of Y1â€“xYbxNi2B2C synthesized at high pressure: EXAFS data analysis. Journal of Synchrotron Radiation, 2001, 8, 910-912.	1.0	1
46	Investigation of hyperfine quadrupole interactions in UGe2 and UAl2 compounds on 111Cd probe nuclei by the perturbed angular correlation method. JETP Letters, 2009, 89, 280-284.	0.4	1
47	The peculiarities of local structure of YbNi₂and YbCo₂intermetallics synthesized at high pressure.. Journal of Physics: Conference Series, 2016, 747, 012028.	0.3	1
48	Effect of high pressure on charge density wave formation and magnetic structure in the cubic high-pressure phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">TbGe</mml:mi><mml:mrow><mml:mn mathvariant="bold">2</mml:mn><mml:mo>.</mml:mo><mml:mn mathvariant="bold">85</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2016, 94, .	1.1	1
49	Two-stage pressure-induced Yb valence change in the hexagonal Laves phase YbAg2 : Investigation by time differential perturbed angular Î³â¯Î³ correlation spectroscopy method and density functional calculations. Physical Review B, 2017, 96, .	1.1	1
50	Ab initio based description of the unusual increase of the electric field gradient with temperature at Ti sites in rutile TiO2. Physical Review B, 2020, 102, .	1.1	1
51	Pressure influence on the valence and magnetic state of Yb ions in noncentrosymmetric heavy-fermion YbNiC2. Physical Review B, 2021, 103, .	1.1	1
52	Possible quadrupole-order-driven commensurate-incommensurate phase transition in B20 CoGe. Physical Review B, 2022, 105, .	1.1	1
53	Hyperfine fields for119Sn in laves phases Rt2 (R=rare earth: T=Fe, Co, Ni). Hyperfine Interactions, 1990, 59, 541-544.	0.2	0
54	The mixed-valence magnetic ground state of Eu ions in the high-pressure synthesised compound EuNi with the Laves phase structure (C15). Journal of Physics Condensed Matter, 1990, 2, 4507-4512.	0.7	0

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55	Ferromagnetism of amorphous LaCo2 hydride. Physica Status Solidi (B): Basic Research, 2004, 241, 1096-1099.	0.7	0
56	Study of the electric field gradient at 111Cd in the RAl3 compounds synthesized under high pressure. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 822-826.	0.1	0
57	Hyperfine interactions in the Bi1â^'xLaxFeO3 ferrites (x =â€‰0.0225, 0.075, 0.9). Hyperfine Interactions, 2021, 242, 1.	0.2	0