

# Anatoly Tsvyashchenko

## List of Publications by Citations

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52  
papers

535  
citations

13  
h-index

21  
g-index

57  
ext. papers

606  
ext. citations

2.2  
avg, IF

3  
L-index

#	Paper	IF	Citations
52	Chiral properties of structure and magnetism in Mn(1-x)Fe(x)Ge compounds: when the left and the right are fighting, who wins?. <i>Physical Review Letters</i> , <b>2013</b> , 110, 207201	7.4	98
51	Neutron diffraction study of the chiral magnet MnGe. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	60
50	High-pressure phase of CeRu2: A magnetic superconductor with two charge states of Ru ions. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	34
49	Two-step pressure-induced collapse of magnetic order in the MnGe chiral magnet. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	32
48	Flip of spin helix chirality and ferromagnetic state in Fe1-xCoxGe compounds. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	31
47	Stress-induced magnetic textures and fluctuating chiral phase in MnGe chiral magnet. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	30
46	Magnetic ground state and spin fluctuations in MnGe chiral magnet as studied by muon spin rotation. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	23
45	Magnetovolume effect, macroscopic hysteresis, and moment collapse in the paramagnetic state of cubic MnGe under pressure. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	16
44	Spin-wave dynamics in the helimagnet FeGe studied by small-angle neutron scattering. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	16
43	Crystal structure and thermal expansion of Mn(1-x)Fe(x)Ge. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2014</b> , 70, 676-80	1.8	15
42	Long-period helical structures and twist-grain boundary phases induced by chemical substitution in the Mn1-x(Co,Rh)xGe chiral magnet. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	14
41	Band Structure of Hexagonal Tantalum Nitride. <i>Physica Status Solidi (B): Basic Research</i> , <b>1980</b> , 100, 99-102.	3.3	14
40	Interplay between magnetism and superconductivity and the appearance of a second superconducting transition in FeSe at high pressure. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 415701	1.8	13
39	New ferromagnetic compound CaCo2 (C15) synthesized at high pressure. <i>JETP Letters</i> , <b>1998</b> , 68, 908-914.	1.2	13
38	Lowering of the spatial symmetry at the B1 phase transition in cerium. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	12
37	Partial ordering and phase elasticity in the MnGe short-period helimagnet. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
36	Hall-Effect study of YNi2B2C superconductor. <i>Journal of Low Temperature Physics</i> , <b>1996</b> , 105, 1647-1652.	1.3	9

35	Thermal expansion of monogermanides of 3d-metals. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 375401	1.8	8
34	Magnetic fields at $^{181}\text{Ta}$ nuclei in Laves phases of $\text{RFe}_2$ (R=Nd, Pr, Sm, Gd, Dy, Yb, Lu). <i>Journal of Experimental and Theoretical Physics</i> , <b>1997</b> , 84, 599-602	1	7
33	$\text{Cd}111$ time-differential perturbed angular correlation study of pressure-induced valence changes in $\text{YbAl}_2$ . <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	7
32	Magnetic, electronic, and transport properties of the high-pressure-synthesized chiral magnets $\text{Mn}_1\text{Rh}_x\text{Ge}$ . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	7
31	Hyperfine interactions for $^{181}\text{Ta}$ nuclei in the laves phases $\text{LuFe}_2$ and $\text{GdFe}_2$ . <i>Hyperfine Interactions</i> , <b>1990</b> , 59, 521-523	0.8	6
30	Incommensurate antiferromagnetism induced by a charge density wave in the cubic phase of $\text{TbGe}_{2.85}$ . <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	5
29	Superconductivity in the $\text{Ba}_1\text{LaxPbO}_3$ system. <i>Physics of the Solid State</i> , <b>2001</b> , 43, 613-615	0.8	5
28	Pressure generation by a double-stage system using sintered diamond as the last stage anvil. <i>Review of Scientific Instruments</i> , <b>1992</b> , 63, 2311-2314	1.7	5
27	Hyperfine Field and Induced Moment of $^{181}\text{Ta}$ in the Rare Earth - Iron Laves Compounds. <i>Australian Journal of Physics</i> , <b>1998</b> , 51, 175		5
26	Magnetism and superconductivity in $\text{EuFe}_2\text{As}_2$ synthesized under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 589-592	1.3	4
25	Nuclear $^{111}\text{Cd}$ probes detect a hidden symmetry change at the $f-f$ transition in cerium considered isostructural for 60 years. <i>Journal of Experimental and Theoretical Physics</i> , <b>2010</b> , 111, 627-634	1	4
24	Investigation of the Mesosstructure of Transition-Metal Monogermanides Synthesized under Pressure. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 751-757	0.8	3
23	Charge and magnetic states of Ni ions in the $\text{GdNi}_2\text{sLaves}$ phase synthesized at different pressures. <i>Physical Review B</i> , <b>1997</b> , 55, 6377-6381	3.3	3
22	Mössbauer test of T invariance in $\text{Yb}^{171}$ . <i>Physical Review C</i> , <b>2007</b> , 76,	2.7	3
21	Evidence of Spontaneous Co Moment in a Rare-EarthCobalt Laves Phase Compound: $^{59}\text{Co}$ NMR Study of $\text{LaCo}_2$ . <i>Journal of the Physical Society of Japan</i> , <b>2002</b> , 71, 2117-2120	1.5	3
20	Electron and phonon properties of noncentrosymmetric $\text{RhGe}$ from ab initio calculations. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 470, 127-130	2.8	3
19	Hyperfine field assessment of the magnetic structure of $\text{ZrZn}_2$ . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	2
18	Low Temperature Specific Heat of $\text{RMn}_2$ Compounds with the Hexagonal $\text{C}14$ Structure (R=Y, Yb and Th). <i>Journal of the Physical Society of Japan</i> , <b>1997</b> , 66, 2175-2177	1.5	2

17	The electric quadrupole interaction of $^{111}\text{Cd}$ in $\text{ZrZn}_2$ and $\text{Zn}$ in the samples prepared at 8 GPa. <i>Hyperfine Interactions</i> , <b>2006</b> , 171, 269-275	0.8	2
16	The electronic structure and optical and magneto-optical properties of the $\text{CaCo}_2$ compound synthesized at a high pressure: Experiment and theory. <i>Journal of Experimental and Theoretical Physics</i> , <b>2005</b> , 100, 983-991	1	2
15	Magnetic hyperfine fields acting on diamagnetic $^{119}\text{Sn}$ impurity in rare-earth-3d transition metal laves phases, crystallized under high pressure. <i>Hyperfine Interactions</i> , <b>1990</b> , 59, 399-402	0.8	2
14	High-pressure single-crystal synchrotron diffraction study of $\text{MnGe}$ and related compounds. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 085401	1.8	1
13	Towards an ab initio theory for the temperature dependence of electric field gradients in solids: Application to hexagonal lattices of $\text{Zn}$ and $\text{Cd}$ . <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	1
12	Suppression of the bulk high spin to low spin transition by doping the chiral magnet $\text{MnGe}$ . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1
11	Investigation of hyperfine quadrupole interactions in $\text{UGe}_2$ and $\text{UAl}_2$ compounds on $^{111}\text{Cd}$ probe nuclei by the perturbed angular correlation method. <i>JETP Letters</i> , <b>2009</b> , 89, 280-284	1.2	1
10	On the Nature of Defects in $\text{Mn}_{1-x}\text{Fe}_x\text{Ge}$ Compounds Synthesized under High Pressure. <i>Journal of Surface Investigation</i> , <b>2020</b> , 14, 429-433	0.5	1
9	Effect of high pressure on charge density wave formation and magnetic structure in the cubic high-pressure phase of $\text{TbGe}_{2.85}$ . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	1
8	The peculiarities of local structure of $\text{YbNi}_2$ and $\text{YbCo}_2$ intermetallics synthesized at high pressure. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 747, 012028	0.3	0
7	Study of the electric field gradient at $^{111}\text{Cd}$ in the $\text{RAl}_3$ compounds synthesized under high pressure. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2007</b> , 71, 822-826	0.4	
6	Ferromagnetism of amorphous $\text{LaCo}_2$ hydride. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 1096-1099		
5	Structural properties of $\text{Y}_{1-x}\text{Yb}_x\text{Ni}_2\text{B}_2\text{C}$ synthesized at high pressure: EXAFS data analysis. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 910-2	2.4	
4	Hall-Effect study of $\text{YbNi}_2\text{B}_2\text{C}$ borocarbide. <i>Ferroelectrics</i> , <b>2000</b> , 247, 163-169	0.6	
3	Hyperfine fields for $^{119}\text{Sn}$ in laves phases $\text{Rt}_2$ (R=rare earth: T=Fe, Co, Ni). <i>Hyperfine Interactions</i> , <b>1990</b> , 59, 541-544	0.8	
2	The mixed-valence magnetic ground state of Eu ions in the high-pressure synthesised compound $\text{EuNi}$ with the Laves phase structure ( $\text{C15}$ ). <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 4507-4512	1.8	
1	Hyperfine interactions in the $\text{Bi}_{1-x}\text{La}_x\text{FeO}_3$ ferrites ( $x = 0.0225, 0.075, 0.9$ ). <i>Hyperfine Interactions</i> , <b>2021</b> , 242, 1	0.8	