

# Anatoly Tsvyashchenko

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	
51	Towards an ab initio theory for the temperature dependence of electric field gradients in solids: Application to hexagonal lattices of Zn and Cd. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	1
50	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
49	Partial ordering and phase elasticity in the MnGe short-period helimagnet. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
48	Suppression of the bulk high spin to low spin transition by doping the chiral magnet MnGe. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1
47	Electron and phonon properties of noncentrosymmetric RhGe from ab initio calculations. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 470, 127-130	2.8	3
46	Investigation of the Mesostructure of Transition-Metal Monogermanides Synthesized under Pressure. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 751-757	0.8	3
45	Magnetic, electronic, and transport properties of the high-pressure-synthesized chiral magnets $\text{Mn}_{1-x}\text{Rh}_x\text{Ge}$ . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	7
44	High-pressure single-crystal synchrotron diffraction study of MnGe and related compounds. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 085401	1.8	1
43	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
42	Long-period helical structures and twist-grain boundary phases induced by chemical substitution in the $\text{Mn}_{1-x}(\text{Co,Rh})_x\text{Ge}$ chiral magnet. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	14
41	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
40	Thermal expansion of monogermanides of 3d-metals. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 375401	1.8	8
39	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
38	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
37	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
36	Hyperfine field assessment of the magnetic structure of $\text{ZrZn}_2$ . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	2

35	Incommensurate antiferromagnetism induced by a charge density wave in the cubic phase of TbGe <sub>2.85</sub> . <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	5
34	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
33	Stress-induced magnetic textures and fluctuating chiral phase in MnGe chiral magnet. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	30
32	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
31	Flip of spin helix chirality and ferromagnetic state in Fe <sub>1-x</sub> CoxGe compounds. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	31
30	Magnetism and superconductivity in EuFe <sub>2</sub> As <sub>2</sub> synthesized under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 589-592	1.3	4
29	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
28	Neutron diffraction study of the chiral magnet MnGe. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	60
27	Lowering of the spatial symmetry at the $\Gamma_4^-$ phase transition in cerium. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	12
26	Nuclear <sup>111</sup> Cd probes detect a hidden symmetry change at the $\Gamma_4^-$ transition in cerium considered isostructural for 60 years. <i>Journal of Experimental and Theoretical Physics</i> , <b>2010</b> , 111, 627-634	1	4
25	Interplay between magnetism and superconductivity and the appearance of a second superconducting transition in $\text{FeSe}$ at high pressure. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 415701	1.8	13
24	Investigation of hyperfine quadrupole interactions in UGe <sub>2</sub> and UAl <sub>2</sub> compounds on <sup>111</sup> Cd probe nuclei by the perturbed angular correlation method. <i>JETP Letters</i> , <b>2009</b> , 89, 280-284	1.2	1
23	Study of the electric field gradient at <sup>111</sup> Cd in the RAl <sub>3</sub> compounds synthesized under high pressure. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2007</b> , 71, 822-826	0.4	
22	Mössbauer test of T invariance in Yb <sub>171</sub> . <i>Physical Review C</i> , <b>2007</b> , 76,	2.7	3
21	<sup>111</sup> Cd time-differential perturbed angular correlation study of pressure-induced valence changes in YbAl <sub>2</sub> . <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	7
20	The electric quadrupole interaction of <sup>111</sup> Cd in ZrZn <sub>2</sub> and Zn in the samples prepared at 8 GPa. <i>Hyperfine Interactions</i> , <b>2006</b> , 171, 269-275	0.8	2
19	The electronic structure and optical and magneto-optical properties of the CaCo <sub>2</sub> 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
18	Ferromagnetism of amorphous LaCo <sub>2</sub> hydride. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 1096-1099		

17	High-pressure phase of CeRu <sub>2</sub> : A magnetic superconductor with two charge states of Ru ions. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	34
16	Evidence of Spontaneous Co Moment in a Rare-Earth-Cobalt Laves Phase Compound: <sup>59</sup> Co NMR Study of LaCo <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , <b>2002</b> , 71, 2117-2120	1.5	3
15	Structural properties of Y <sub>1-x</sub> Yb <sub>x</sub> Ni <sub>2</sub> B <sub>2</sub> C synthesized at high pressure: EXAFS data analysis. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 910-2	2.4	
14	Superconductivity in the Ba <sub>1-x</sub> La <sub>x</sub> PbO <sub>3</sub> system. <i>Physics of the Solid State</i> , <b>2001</b> , 43, 613-615	0.8	5
13	Hall-Effect study of YbNi <sub>2</sub> B <sub>2</sub> C borocarbide. <i>Ferroelectrics</i> , <b>2000</b> , 247, 163-169	0.6	
12	New ferromagnetic compound CaCo <sub>2</sub> (C15) synthesized at high pressure. <i>JETP Letters</i> , <b>1998</b> , 68, 908-914.	4.2	13
11	Hyperfine Field and Induced Moment of <sup>181</sup> Ta in the Rare Earth - Iron Laves Compounds. <i>Australian Journal of Physics</i> , <b>1998</b> , 51, 175		5
10	Charge and magnetic states of Ni ions in the GdNi <sub>2</sub> S Laves phase synthesized at different pressures. <i>Physical Review B</i> , <b>1997</b> , 55, 6377-6381	3.3	3
9	Low Temperature Specific Heat of RMn <sub>2</sub> Compounds with the Hexagonal C14 Structure (R=Y, Yb and Th). <i>Journal of the Physical Society of Japan</i> , <b>1997</b> , 66, 2175-2177	1.5	2
8	Magnetic fields at <sup>181</sup> Ta nuclei in Laves phases of RFe <sub>2</sub> (R=Nd, Pr, Sm, Gd, Dy, Yb, Lu). <i>Journal of Experimental and Theoretical Physics</i> , <b>1997</b> , 84, 599-602	1	7
7	Hall-Effect study of YNi <sub>2</sub> B <sub>2</sub> C superconductor. <i>Journal of Low Temperature Physics</i> , <b>1996</b> , 105, 1647-1652.	1.3	9
6	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
5	Magnetic hyperfine fields acting on diamagnetic <sup>119</sup> 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
4	Hyperfine interactions for <sup>181</sup> Ta nuclei in the laves phases LuFe <sub>2</sub> and GdFe <sub>2</sub> . <i>Hyperfine Interactions</i> , <b>1990</b> , 59, 521-523	0.8	6
3	Hyperfine fields for <sup>119</sup> Sn in laves phases R <sub>2</sub> T (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 EuNi with the Laves phase structure (C15). <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 4507-4512	1.8	
1	Band Structure of Hexagonal Tantalum Nitride. <i>Physica Status Solidi (B): Basic Research</i> , <b>1980</b> , 100, 99-102.	3	14