A Podlesnyak

List of Publications by Year
in descending order

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82 papers	2,107 citations	394421 19 h-index	233421 45 g-index
82 all docs	82 docs citations	82 times ranked	2845 citing authors

#	Article	IF	Citations
1	Giant anharmonic phonon scattering in PbTe. Nature Materials, 2011, 10, 614-619.	27.5	561
2	Spin-State Transition inLaCoO3: Direct Neutron Spectroscopic Evidence of Excited Magnetic States. Physical Review Letters, 2006, 97, 247208.	7.8	222
3	A comparison of four direct geometry time-of-flight spectrometers at the Spallation Neutron Source. Review of Scientific Instruments, 2014, 85, 045113.	1.3	107
4	Spin structure and magnetic phase transitions inTbBaCo2O5.5. Physical Review B, 2005, 71, .	3.2	98
5	High-temperature order-disorder transition and polaronic conductivity inPrBaCo2O5.48. Physical Review B, 2006, 73, .	3.2	93
6	Spin-State Polarons in Lightly-Hole-Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 101, 247603.	7.8	76
7	Orbital-exchange and fractional quantum number excitations in an f-electron metal, Yb ₂ Pt ₂ Pb. Science, 2016, 352, 1206-1210.	12.6	68
8	Tomonagaâ€“Luttinger liquid behavior and spinon confinement in YbAlO3. Nature Communications, 2019, 10, 698.	12.8	56
9	Effect of oxygen ordering on the structural and magnetic properties of the layered perovskites PrBaCo2O5+l´. Journal of Physics Condensed Matter, 2005, 17, 3317-3324.	1.8	52
10	Crystal-field and magnetic properties of the distorted perovskite NdGaO3. Journal of Physics Condensed Matter, 1993, 5, 8973-8982.	1.8	40
11	Oxygen isotope effect on metalâ€“insulator transition in layered cobaltites RBaCo2O5.5(R = Pr, Dy, Ho) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	39
12	Decoupled spin dynamics in the rare-earth orthoferrite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YbFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></m : Evolution of magnetic excitations through the spin-reorientation transition. Physical Review B, 2018, 98, .	3.2	31
13	Crystal-field levels in the distorted perovskite PrGaO3. Journal of Physics Condensed Matter, 1994, 6, 4099-4106.	1.8	27
14	Magnetic ground state of the Ising-like antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>DyScO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2017, 96, .	3.2	27
15	Effect of carrier doping on the formation and collapse of magnetic polarons in lightly hole-doped La1â^'xSrxCoO3. Physical Review B, 2011, 83, .	3.2	25
16	Butterflylike specific heat, magnetocaloric effect, and itinerant metamagnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mtext>Er</mml:mtext><mml:mo>,</mml:mo><m Physical Review B, 2009, 79, .	3.2	21
17	Neutron spectroscopic studies of crystalline electric fields in high-Tc ErBa2Cu3O7 doped with zn and Ni. Physica C: Superconductivity and Its Applications, 1991, 175, 587-594.	1.2	20
18	Magnetic order of Pr ions in PrBa2Cu3O6. Solid State Communications, 1993, 88, 57-61.	1.9	19

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19	Oxygen orderâ€“disorder phase transition in PrBaCo2O5.48 at high temperature. Physica B: Condensed Matter, 2006, 378-380, 539-540.	2.7	19
20	Effect of light Sr doping on the spinâ€“state transition in. Journal of Magnetism and Magnetic Materials, 2007, 310, 1552-1554.	2.3	19
21	Fast and slow dynamics in Pr60Ni10Cu20Al10 melts as seen by neutron scattering. Journal of Applied Physics, 2008, 103, 013509.	2.5	19
22	Enhanced survival of short-range magnetic correlations and frustrated interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0012.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="normal">R</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">T</mml:mi></mml:math> intermetallics. Journal of Magnetism and Magnetic Materials, 2012, 324, 1907-1912.	2.3	19
23	Onset of magnetism in Y1ÂxGdxCo2: effect on the heat capacity and electrical resistivity. Journal of Physics Condensed Matter, 2003, 15, 5371-5382.	1.8	17
24	Magnetic structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Ising moments on the Shastry-Sutherland lattice. Physical Review B, 2016, 93, .	3.2	17
25	New elaboration technique, structure and physical properties of infinite-layer Sr1â^'xLnxCuO2(Ln = Nd,) Tj ETQq1 1 0.784314 rgBT /Ov	1.2	16
26	Antiferromagnetism in the ordered subsystem of Cr ions intercalated into titanium diselenide. Journal of Physics Condensed Matter, 2005, 17, 5255-5262.	1.8	16
27	Pressure effects on crystal structure, magnetic and transport properties of layered perovskite. Physica B: Condensed Matter, 2006, 378-380, 537-538.	2.7	16
28	Irreversibility of the magnetic state ofTm1â^'xTbxCo2revealed by specific heat, electrical resistivity, and neutron diffraction measurements. Physical Review B, 2006, 73, .	3.2	16
29	High-field magnetization and magnetic structure of Tb₃Co. Journal of Physics Condensed Matter, 2007, 19, 326213.	1.8	16
30	Possible reappearance of the charge density wave transition in MxTiSe2compounds intercalated with 3d metals. Journal of Physics Condensed Matter, 2007, 19, 016005.	1.8	16
31	Field-induced magnetic phase transitions and metastable states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 97, .	3.2	16
32	Magnetic transition inEr1â^'xYxCo2(x=0,0.4)single crystals probed by neutron scattering in magnetic fields. Physical Review B, 2002, 66, .	3.2	15
33	Ni intercalation of titanium diselenide:â€‰effect on the lattice, specific heat and magnetic properties. Journal of Physics Condensed Matter, 2004, 16, 9243-9258.	1.8	15
34	Neutron-diffraction investigation of the metamagnetic transition in ErCo 2. Applied Physics A: Materials Science and Processing, 2002, 74, s598-s600.	2.3	14
35	Superstructure formation at the metal-insulator transition inRBaCo2O5.5(R=Nd,Tb)as seen from reciprocal space mapping. Physical Review B, 2008, 78, .	3.2	14
36	Gradual pressure-induced enhancement of magnon excitations in CeCoSi. Physical Review B, 2020, 101, .	3.2	14

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37	Momentum-space structure of quasielastic spin fluctuations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ce</mml:mi><mml:mn mathvariant="bold">3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Pd</mml:mi><mml:mn mathvariant="bold">20</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Si</mml:mi>	3.2	13
38	ExtraT-linear specific heat contribution induced by the fâ€“d-exchange in Gdâ€“Ni binary compounds. Journal of Physics Condensed Matter, 2008, 20, 325233.	1.8	12
39	Clamp cell with in situ pressure monitoring for low-temperature neutron scattering measurements. High Pressure Research, 2018, 38, 482-492.	1.2	12
40	Magnetic order of Pr ions in related perovskiteâ€type Pr123 compounds. Journal of Applied Physics, 1994, 75, 6331-6333.	2.5	11
41	Single-crystal neutron diffraction study of the magnetic structure ofEr3Co. Physical Review B, 2010, 82, .	3.2	11
42	Magnetic structures and magnetic phase transitions in Ho3Co. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 565-567.	2.3	10
43	Enhanced magnetic entropy inGdNi2. Physical Review B, 2007, 75, .	3.2	10
44	Magnetic and electric transport properties of TbBaCo2O5.5 single crystal. Journal of Magnetism and Magnetic Materials, 2007, 316, e710-e712.	2.3	10
45	Effect of fine-tuning pore structures on the dynamics of confined water. Journal of Chemical Physics, 2019, 150, 204706.	3.0	10
46	Neutron scattering studies of crystal structure and crystalline electric field in high-Tc ErBa2Cu3Ox disordered by fast neutron irradiation. Physica C: Superconductivity and Its Applications, 1992, 200, 337-343.	1.2	9
47	Molecular dynamics in ammonium dihydrogen phosphate using incoherent neutron scattering. Chemical Physics, 2007, 335, 233-241.	1.9	8
48	Low-energy spin dynamics in rare-earth perovskite oxides. Journal of Physics Condensed Matter, 2021, 33, 403001.	1.8	8
49	Crystal-field spectrum in RBa2Cu3Ox(R = Er, Ho) high-Tcsuperconductors: evidence for charge order in CuO2planes. Journal of Physics Condensed Matter, 1999, 11, 7155-7173.	1.8	7
50	Pressure effect on hydrogen tunneling and vibrational spectrum in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>-Mn. Physical Review B, 2016, 94, .	3.2	7
51	Spontaneous and field-induced magnetic transitions in YBaCo2O5.5. Journal of Magnetism and Magnetic Materials, 2009, 321, 429-437.	2.3	6
52	Origin of a spin-state polaron in lightly hole doped LaCoO3. Journal of Physics: Conference Series, 2009, 150, 042003.	0.4	6
53	Magnetization and neutron scattering studies of the pressure effect on the magnetic transition in Er $scriptstyle sf0.57$ Y $scriptstyle sf0.43$ Co $scriptstyle sf 2$. European Physical Journal B, 2002, 29, 547-552.	1.5	5
54	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 543-554.	0.5	5

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55	Molecular dynamics in triglycine sulphate by cold neutron spectroscopy. Chemical Physics, 2006, 322, 323-330.	1.9	5
56	Transport properties and oxygen isotope effect in layered cobaltites RBaCo2O5+x. Journal of Magnetism and Magnetic Materials, 2007, 310, 907-909.	2.3	5
57	Microscopic insight into the origin of enhanced glass-forming ability of metallic melts on micro-alloying. Applied Physics Letters, 2015, 107, .	3.3	5
58	Electron-phonon coupling and superconductivity in the doped topological crystalline insulator (Pb0.5Sn0.5)1âˆ’xInxTe. Physical Review B, 2020, 102, .	3.2	5
59	Neutron spectroscopic studies of crystalline electric fields in disordered high-Tc ErBa2Cu3OX. Physica C: Superconductivity and Its Applications, 1991, 185-189, 817-818.	1.2	4
60	Synthesis, crystal structure and inelastic neutron scattering in the infinite-layer compounds Sr1âˆ’xNdxCuO2. Physica C: Superconductivity and Its Applications, 1994, 230, 311-317.	1.2	4
61	The effect of Ca and Th substitution on the crystal-field spectrum of the high-Tcsuperconductor HoBa2Cu3Ox. Journal of Physics Condensed Matter, 2002, 14, 1923-1936.	1.8	4
62	Magnetic properties and crystal-field excitations in R x Sr 1-x CoO 3. Applied Physics A: Materials Science and Processing, 2002, 74, s1746-s1748.	2.3	4
63	Observation of the pseudogap in the heavily overdoped high-temperature superconductor La 1.71 Sr 0.25 Ho 0.04 CuO 4. Europhysics Letters, 2004, 67, 1018-1023.	2.0	4
64	Crystal-field interaction and oxygen stoichiometry effects in strontium-doped rare-earth cobaltates. Physical Review B, 2014, 90, .	3.2	4
65	Experimental observation of magnetic dimers in diluted Yb:YAlO3. Physical Review B, 2020, 101, .	3.2	4
66	Low-temperature spin dynamics in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TmFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></ orthoferrite with a non-Kramers ion. Physical Review B, 2020, 101, .	3.2	4
67	Neutron powder diffraction study of the infinite-layer compounds Sr1âˆ’xNdxCuO2. Physica B: Condensed Matter, 1997, 234-236, 818-820.	2.7	3
68	From SrCuO2 to Sr8Cu8O20âˆ’y: Why Are Superconducting Properties of Infinite-Layer Compounds so Poor?. Journal of Superconductivity and Novel Magnetism, 2000, 13, 145-152.	0.5	2
69	Superconducting magnetization and pressure effect on Tc in the infinite-layer high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2004, 402, 317-324.	1.2	2
70	Neutron-scattering studies of the pressure effect on the magnetic transition in Ho(Co0.9Ga0.1)2. Physica B: Condensed Matter, 2004, 350, E143-E146.	2.7	2
71	Effect of oxygen nonstoichiometry on structural and magnetic properties of. Physica B: Condensed Matter, 2005, 359-361, 1348-1350.	2.7	2
72	Magnetic correlations in heavy fermion CeAl3 compound. Solid State Communications, 2007, 141, 474-479.	1.9	2

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73	Magnetic field induced softening of spin waves and hard-axis order in the Kondo-lattice ferromagnet CeAgSb2. Physical Review B, 2021, 104, .	3.2	2
74	Neutron spectroscopic study of crystalline electric-field in infinite-layer Sr1â^'xNdxCuO2. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1335-1336.	1.2	1
75	Peculiarities of crystal structure and crystal-field excitations in â€œ1212â€•AlSr2RCu2O7 (R=Y, Er). Physica C: Superconductivity and Its Applications, 2000, 334, 55-63.	1.2	1
76	The pseudogap in LSCO-type high-temperature superconductors as seen by neutron crystal-field spectroscopy. Progress in Solid State Chemistry, 2007, 35, 415-420.	7.2	1
77	Formation of magnetic polarons in lightly Ca doped LaCoO3. Journal of Physics: Conference Series, 2010, 200, 012080.	0.4	1
78	Crystal structure and inelastic neutron scattering in the infinite-layer compounds Sr1â^'xNdxCuO2. European Physical Journal D, 1996, 46, 1411-1412.	0.4	0
79	Neutron spectroscopic studies of crystalline electric field in infinite-layer Sr1â^'xNdxCuO2. Physica B: Condensed Matter, 1997, 234-236, 794-796.	2.7	0
80	The influence of Th substitution on the crystal structure and the crystal field spectrum of the high-Tc superconductor HoBa2Cu3O6.95. Physica B: Condensed Matter, 2004, 350, E335-E337.	2.7	0
81	Evidence for Magnetic Polarons in Hole-Doped Cobalt Perovskites. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	0
82	Magneto-Polaron Formation and Field-Induced Effects with Dilute Doping in LaCo1â^'y Ni y O3. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2627-2632.	1.8	0