

Sergei Aplesnin

List of Publications by Year in descending order

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50
papers

313
citations

840776

11
h-index

940533

16
g-index

50
all docs

50
docs citations

50
times ranked

60
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetoresistance and magnetoimpedance in holmium manganese sulfides. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	6
2	Synthesis conditions, crystal structure and magnetic properties of Mn ²⁺ Se selenides. Proceedings of the National Academy of Sciences of Belarus Physical-Technical Series, 2022, 67, 135-143.	0.1	0
3	Magnetotransport Effects and Electronic Phase Separation in Manganese Sulfides with Electron ⁺ Hole Doping. Journal of Experimental and Theoretical Physics, 2021, 132, 831-842.	0.9	4
4	The type of current carriers and the influence of prehistory on the dynamic magnetic characteristics in HoxMn1-xS. IOP Conference Series: Materials Science and Engineering, 2021, 1181, 012008.	0.6	0
5	Effect of Electron and Hole Doping on the Transport Characteristics of Chalcogenide Systems. Physics of the Solid State, 2021, 63, 754-757.	0.6	0
6	Electrical Properties of the Polycrystalline BiFe0.95Co0.05O3 Films. Physics of the Solid State, 2021, 63, 897-903.	0.6	2
7	Magnetoelectric effect in bismuth - neodymium ferrite - garnet films. IOP Conference Series: Materials Science and Engineering, 2020, 822, 012025.	0.6	0
8	Low-temperature phase transition in bismuth ferrite films substituted by manganese. IOP Conference Series: Materials Science and Engineering, 2020, 822, 012021.	0.6	0
9	Magnetoresistive effect in the cobalt-doped bismuth ferrite films. Journal of Materials Science: Materials in Electronics, 2020, 31, 7946-7952.	2.2	5
10	Magnetic Properties of Bismuth Pyrostannate Doped with 3D Ions. Inorganic Materials: Applied Research, 2020, 11, 809-814.	0.5	0
11	IR-range photoinduced diode effect in the manganese-substituted bismuth ferrite films. Semiconductor Science and Technology, 2019, 34, 095007.	2.0	8
12	Magnetoresistance, magnetoimpedance, magnetothermopower, and photoconductivity in silver-doped manganese sulfides. Journal of Applied Physics, 2019, 125, .	2.5	9
13	References regulating the BiMn _x Fe _{1-x} O ₃ film conductivity upon cooling in magnetic and electric fields. Materials Research Express, 2019, 6, 116125.	1.6	4
14	The alternating-sign magnetoresistance of polycrystalline manganese chalcogenide films. Semiconductor Science and Technology, 2018, 33, 085006.	2.0	4
15	Magnetic capacitance of the Gd _x Bi ²⁺ x FeO ₃ thin films. Physics of the Solid State, 2017, 59, 667-673.	0.6	3
16	Magnetoimpedance and magnetocapacitance of anion-substituted manganese chalcogenides. Journal of Applied Physics, 2017, 121, 075701.	2.5	12
17	Magnetic, dielectric, and transport properties of bismuth pyrostannate Bi ₂ (Sn _{0.9} Mn _{0.1}) ₂ O ₇ . Physics of the Solid State, 2017, 59, 2268-2273.	0.6	11
18	Magnetoelectric and magnetoresistive properties of the Bi ₂ Mn _{1-x} S semiconductors. Physica Status Solidi (B): Basic Research, 2016, 253, 1771-1781.	1.5	13

#	ARTICLE	IF	CITATIONS
19	Synthesis and magnetic and electrical study of $Tm_x Mn_{1-x}S$ solid solutions. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 679-681.	0.6	1
20	Magnetoresistance effect in anion-substituted manganese chalcogenides. Physica Status Solidi (B): Basic Research, 2015, 252, 1792-1798.	1.5	19
21	Correlation of the magnetic and transport properties with polymorphic transitions in bismuth pyrostannate $Bi_2(Sn_{1-x}Cr_x)_{2O_7}$. Physics of the Solid State, 2015, 57, 1627-1632.	0.6	6
22	Investigation of the transport properties of cation-substituted solid solutions $Yb_x Mn_{1-x}S$. Physics of the Solid State, 2015, 57, 886-890.	0.6	10
23	Enhancement of the magnetocapacitance effect in an external electric field in $La_x Bi_{1-x}FeO_3$ films. Journal of Experimental and Theoretical Physics, 2015, 121, 422-428.	0.9	5
24	Magnetotransport effects in paramagnetic $Gd_x Mn_{1-x}S$. JETP Letters, 2014, 100, 95-101.	1.4	21
25	Magnetic and thermophysical properties of $Gd_x Mn_{1-x}S$ solid solutions. Journal of Physics Condensed Matter, 2013, 25, 025802.	1.8	9
26	Magnetic and dynamic properties of $Sm_x Mn_{1-x}S$ solid solutions. Physics of the Solid State, 2013, 55, 81-87.	0.6	3
27	Synthesis, structure, and magnetic properties of anion-substituted manganese chalcogenides. Physics of the Solid State, 2012, 54, 1374-1379.	0.6	10
28	Magnetic properties of $Sm_x Mn_{1-x}S$ solid solutions. Physica Status Solidi (B): Basic Research, 2011, 248, 1975-1978.	1.5	3
29	Spin glass effects in $Co_x Mn_{1-x}S$ solid solutions. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 965-967.	0.6	2
30	Magnetic and electrical properties of cation-substituted sulfides $Me_x Mn_{1-x}S$ ($Me = Co, Gd$). Physics of the Solid State, 2009, 51, 698-701.	0.6	23
31	Transport properties and ferromagnetism of $Co_x Mn_{1-x}S$ sulfides. Journal of Experimental and Theoretical Physics, 2008, 106, 765-772.	0.9	16
32	Sulfide compounds $Me_x Mn_{1-x}S$ ($Me = Cr, Fe, V, Co$): Technology, transport properties, and magnetic ordering. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1050-1052.	0.6	1
33	Formation of a gapless quantum spin liquid upon orbital ordering in a chain. JETP Letters, 2007, 85, 644-648.	1.4	0
34	Effect of bond fluctuations on the transport properties of manganites and nickelates. Journal of Experimental and Theoretical Physics, 2007, 104, 766-774.	0.9	1
35	Effect of the orbital ordering on the transport and magnetic properties of $MnSe$ and $MnTe$. Physics of the Solid State, 2007, 49, 2080-2085.	0.6	23
36	Anomalies in transport properties in a magnetically ordered region on a Kondo lattice. JETP Letters, 2005, 81, 66-71.	1.4	3

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37	Conductivity, weak ferromagnetism, and charge instability in LaMnO_3 single crystal. <i>Physical Review B</i> , 2005, 71, .	3.2	30
38	Quantum magnetostriction oscillations in a two-dimensional antiferromagnet with spin-phonon interaction in a magnetic field. <i>JETP Letters</i> , 2004, 79, 53-56.	1.4	0
39	Spin-dependent transport in LaMnO_3 single crystals. <i>Physics of the Solid State</i> , 2004, 46, 2067-2072.	0.6	13
40	Nonadiabatic interaction of acoustic phonons with spins $S=1/2$ in the two-dimensional Heisenberg model. <i>Journal of Experimental and Theoretical Physics</i> , 2003, 97, 969-977.	0.9	11
41	Quantum Monte Carlo Investigation of the magnetic properties of weakly interacting antiferromagnetic chains with an alternating exchange interaction with spin $S = 1/2$. <i>Journal of Experimental and Theoretical Physics</i> , 2000, 90, 194-201.	0.9	2
42	Quantum Monte Carlo investigation of the 2D Heisenberg model with $S=1/2$. <i>Physics of the Solid State</i> , 1999, 41, 103-107.	0.6	0
43	Low-temperature electronic and magnetic transitions in the antiferromagnetic semiconductor $\text{Cr}_0.5\text{Mn}_0.5\text{S}$. <i>Physics of the Solid State</i> , 1999, 41, 1520-1524.	0.6	13
44	Investigation of the magnetic properties of chains with alternating ferro-and antiferromagnetic exchange interactions in the Heisenberg model with spin $S=1/2$. <i>Physics of the Solid State</i> , 1999, 41, 1511-1512.	0.6	0
45	Dimer state in the two-dimensional anisotropic alternated-exchange Heisenberg model. <i>Physics of the Solid State</i> , 1998, 40, 986-990.	0.6	0
46	Quantum spin liquid in the 2D anisotropic Heisenberg model with frustrated next nearest neighbor exchange. <i>Low Temperature Physics</i> , 1998, 24, 572-577.	0.6	0
47	Quantum spin liquid in an antiferromagnet with four-spin interactions. <i>Physics of the Solid State</i> , 1997, 39, 1246-1250.	0.6	2
48	Low-temperature metal-insulator transition and magnetic properties in the $\text{V}_x\text{Mn}_{1-x}\text{S}$ disordered system. <i>Physics of the Solid State</i> , 1997, 39, 1267-1270.	0.6	3
49	Influence of quantum fluctuations on the Néel temperature of a dilute two-dimensional anisotropic antiferromagnet. <i>Physics of the Solid State</i> , 1997, 39, 800-802.	0.6	0
50	Modeling a dimer state in CuGeO_3 in the two-dimensional anisotropic Heisenberg model with alternated exchange interaction. <i>Journal of Experimental and Theoretical Physics</i> , 1997, 85, 1196-1203.	0.9	2