

# 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	Conductivity, weak ferromagnetism, and charge instability in $\text{In}_{1-x}\text{Mn}_x$ single crystal. <i>Physical Review B</i> , 2005, 71, .	3.2	30
2	Effect of the orbital ordering on the transport and magnetic properties of MnSe and MnTe. <i>Physics of the Solid State</i> , 2007, 49, 2080-2085.	0.6	23
3	Magnetic and electrical properties of cation-substituted sulfides $\text{Me}_x\text{Mn}_{1-x}\text{S}$ (Me = Co, Gd). <i>Physics of the Solid State</i> , 2009, 51, 698-701.	0.6	23
4	Magnetotransport effects in paramagnetic $\text{Gd}_x\text{Mn}_{1-x}\text{S}$ . <i>JETP Letters</i> , 2014, 100, 95-101.	1.4	21
5	Magneto-resistance effect in anion-substituted manganese chalcogenides. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1792-1798.	1.5	19
6	Transport properties and ferromagnetism of $\text{Co}_x\text{Mn}_{1-x}\text{S}$ sulfides. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 106, 765-772.	0.9	16
7	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
8	Spin-dependent transport in $\text{In}_{1-x}\text{Mn}_x$ single crystals. <i>Physics of the Solid State</i> , 2004, 46, 2067-2072.	0.6	13
9	Magnetoelectric and magneto-resistive properties of the $\text{Bi}_{1-x}\text{Mn}_x\text{S}$ semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1771-1781.	1.5	13
10	Magnetoimpedance and magnetocapacitance of anion-substituted manganese chalcogenides. <i>Journal of Applied Physics</i> , 2017, 121, 075701.	2.5	12
11	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
12	Magnetic, dielectric, and transport properties of bismuth pyrostannate $\text{Bi}_2(\text{Sn}_{0.9}\text{Mn}_{0.1})_2\text{O}_7$ . <i>Physics of the Solid State</i> , 2017, 59, 2268-2273.	0.6	11
13	Synthesis, structure, and magnetic properties of anion-substituted manganese chalcogenides. <i>Physics of the Solid State</i> , 2012, 54, 1374-1379.	0.6	10
14	Investigation of the transport properties of cation-substituted solid solutions $\text{Yb}_x\text{Mn}_{1-x}\text{S}$ . <i>Physics of the Solid State</i> , 2015, 57, 886-890.	0.6	10
15	Magnetic and thermophysical properties of $\text{Gd}_x\text{Mn}_{1-x}\text{S}$ solid solutions. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 025802.	1.8	9
16	Magneto-resistance, magnetoimpedance, magnetothermopower, and photoconductivity in silver-doped manganese sulfides. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	9
17	IR-range photoinduced diode effect in the manganese-substituted bismuth ferrite films. <i>Semiconductor Science and Technology</i> , 2019, 34, 095007.	2.0	8
18	Correlation of the magnetic and transport properties with polymorphic transitions in bismuth pyrostannate $\text{Bi}_2(\text{Sn}_{1-x}\text{Cr}_x)_2\text{O}_7$ . <i>Physics of the Solid State</i> , 2015, 57, 1627-1632.	0.6	6

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19	Magnetoresistance and magnetoimpedance in holmium manganese sulfides. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	6
20	Enhancement of the magnetocapacitance effect in an external electric field in La x Bi1-x FeO3 films. Journal of Experimental and Theoretical Physics, 2015, 121, 422-428.	0.9	5
21	Magnetoresistive effect in the cobalt-doped bismuth ferrite films. Journal of Materials Science: Materials in Electronics, 2020, 31, 7946-7952.	2.2	5
22	The alternating-sign magnetoresistance of polycrystalline manganese chalcogenide films. Semiconductor Science and Technology, 2018, 33, 085006.	2.0	4
23	References regulating the BiMn <sub>x</sub> Fe <sub>1-x</sub> O <sub>3</sub> film conductivity upon cooling in magnetic and electric fields. Materials Research Express, 2019, 6, 116125.	1.6	4
24	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
25	Low-temperature metal-insulator transition and magnetic properties in the VxMn1-xS disordered system. Physics of the Solid State, 1997, 39, 1267-1270.	0.6	3
26	Anomalies in transport properties in a magnetically ordered region on a Kondo lattice. JETP Letters, 2005, 81, 66-71.	1.4	3
27	Magnetic properties of Sm <sub>x</sub> Mn <sub>1-x</sub> S solid solutions. Physica Status Solidi (B): Basic Research, 2011, 248, 1975-1978.	1.5	3
28	Magnetic and dynamic properties of Sm x Mn1-x S solid solutions. Physics of the Solid State, 2013, 55, 81-87.	0.6	3
29	Magnetic capacitance of the Gd x Bi1-x FeO3 thin films. Physics of the Solid State, 2017, 59, 667-673.	0.6	3
30	Quantum spin liquid in an antiferromagnet with four-spin interactions. Physics of the Solid State, 1997, 39, 1246-1250.	0.6	2
31	Modeling a dimer state in CuGeO3 in the two-dimensional anisotropic Heisenberg model with alternated exchange interaction. Journal of Experimental and Theoretical Physics, 1997, 85, 1196-1203.	0.9	2
32	Quantum Monte Carlo Investigation of the magnetic properties of weakly interacting antiferromagnetic chains with an alternating exchange interaction with spin S = 1/2. Journal of Experimental and Theoretical Physics, 2000, 90, 194-201.	0.9	2
33	Spin glass effects in Co x Mn1-x S solid solutions. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 965-967.	0.6	2
34	Electrical Properties of the Polycrystalline BiFe0.95Co0.05O3 Films. Physics of the Solid State, 2021, 63, 897-903.	0.6	2
35	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
36	Sulfide compounds Me x Mn1-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

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37	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
38	Influence of quantum fluctuations on the Néel temperature of a dilute two-dimensional anisotropic antiferromagnet. Physics of the Solid State, 1997, 39, 800-802.	0.6	0
39	Dimer state in the two-dimensional anisotropic alternated-exchange Heisenberg model. Physics of the Solid State, 1998, 40, 986-990.	0.6	0
40	Quantum spin liquid in the 2D anisotropic Heisenberg model with frustrated next nearest neighbor exchange. Low Temperature Physics, 1998, 24, 572-577.	0.6	0
41	Quantum Monte Carlo investigation of the 2D Heisenberg model with $S=1/2$ . Physics of the Solid State, 1999, 41, 103-107.	0.6	0
42	Investigation of the magnetic properties of chains with alternating ferro-and antiferromagnetic exchange interactions in the Heisenberg model with spin $S=1/2$ . Physics of the Solid State, 1999, 41, 1511-1512.	0.6	0
43	Quantum magnetostriction oscillations in a two-dimensional antiferromagnet with spin-phonon interaction in a magnetic field. JETP Letters, 2004, 79, 53-56.	1.4	0
44	Formation of a gapless quantum spin liquid upon orbital ordering in a chain. JETP Letters, 2007, 85, 644-648.	1.4	0
45	Magnetoelectric effect in bismuth - neodymium ferrite - garnet films. IOP Conference Series: Materials Science and Engineering, 2020, 822, 012025.	0.6	0
46	Low-temperature phase transition in bismuth ferrite films substituted by manganese. IOP Conference Series: Materials Science and Engineering, 2020, 822, 012021.	0.6	0
47	The type of current carriers and the influence of prehistory on the dynamic magnetic characteristics in $HoxMn_{1-x}S$ . IOP Conference Series: Materials Science and Engineering, 2021, 1181, 012008.	0.6	0
48	Magnetic Properties of Bismuth Pyrostannate Doped with 3D Ions. Inorganic Materials: Applied Research, 2020, 11, 809-814.	0.5	0
49	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
50	Synthesis conditions, crystal structure and magnetic properties of $Mn^{2+}Tm^{3+}Se$ selenides. Proceedings of the National Academy of Sciences of Belarus Physical-Technical Series, 2022, 67, 135-143.	0.1	0