

Karol SzaÅ,owski

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
19	Frustration in an exactly solvable mixed-spin Ising model with bilinear and three-site four-spin interactions on a decorated square lattice. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 417, 92-99.	1.0	14
20	Ground-state magnetic phase diagram of bow-tie graphene nanoflakes in external magnetic field. <i>Journal of Applied Physics</i> , 2013, 114, 243908.	1.1	13
21	Electric field control of the indirect magnetic coupling through a short graphene nanoribbon. <i>Physical Review B</i> , 2014, 90, .	1.1	13
22	Hubbard pair cluster in the external fields. Studies of the chemical potential. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 468, 252-266.	1.2	13
23	Magnetocaloric Effect in Cu ₅ -NIPA Molecular Magnet: A Theoretical Study. <i>Materials</i> , 2020, 13, 485.	1.3	13
24	Phase diagrams of a model diluted fcc magnet with arbitrary spin and modified RKKY interaction: Influence of external magnetic field and structural short-range order. <i>Physical Review B</i> , 2008, 77, .	1.1	12
25	Phase diagram of the frustrated anisotropic antiferromagnet with spin S on the quadratic lattice. <i>Physical Review E</i> , 2010, 82, 022122.	0.8	12
26	Thermodynamic description of the Ising antiferromagnet on a triangular lattice with selective dilution by a modified pair-approximation method. <i>Physical Review E</i> , 2014, 89, 062140.	0.8	11
27	Electrocaloric effect in cubic Hubbard nanoclusters. <i>Scientific Reports</i> , 2018, 8, 5116.	1.6	11
28	Influence of structural short-range order on the phase diagram of diluted anisotropic Heisenberg ferromagnet. <i>Physical Review B</i> , 2009, 80, .	1.1	10
29	Self-consistent model of a solid for the description of lattice and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 310-319.	1.0	10
30	Thermodynamic model of a solid with RKKY interaction and magnetoelastic coupling. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 452, 360-372.	1.0	10
31	Local electronic structure of stable monolayers of \pm -MoO ₃ grown on graphite substrate. <i>2D Materials</i> , 2021, 8, 025005.	2.0	10
32	Ferromagnetic Transition in Ge _{1-x} Mn _x Te Layers. <i>Acta Physica Polonica A</i> , 2009, 116, 904-906.	0.2	9
33	RKKY interaction with diffused contact potential. <i>Physical Review B</i> , 2008, 78, .	1.1	8
34	A simple thermodynamic description of the combined Einstein and elastic models. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 425401.	0.7	8
35	Hubbard pair cluster in the external fields. Studies of the magnetic properties. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 499, 395-406.	1.2	8
36	Hubbard pair cluster in the external fields. Studies of the polarization and susceptibility. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 512, 1069-1084.	1.2	8

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37	A self-consistent thermodynamic model of metallic systems. Application for the description of gold. <i>Journal of Applied Physics</i> , 2014, 116, 043508.	1.1	7
38	Magnetic properties of $\text{Ge}_{1-x}\text{Pb}_x\text{Mn}_y\text{Te}$ cluster-glass system. <i>Journal of Alloys and Compounds</i> , 2015, 649, 142-150.	2.8	7
39	Thermodynamic properties of the one-dimensional Ising model with magnetoelastic interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 507, 166825.	1.0	7
40	Thermodynamics of a model solid with magnetoelastic coupling. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 445, 110-118.	1.0	6
41	Hubbard pair cluster with elastic interactions. Studies of thermal expansion, magnetostriction and electrostriction. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 531, 121740.	1.2	6
42	Critical temperature of two-dimensional hydrogenated multilayer graphene-based diluted ferromagnet. <i>Carbon</i> , 2016, 108, 327-334.	5.4	5
43	Low-Temperature Magnetocaloric Properties of V12 Polyoxovanadate Molecular Magnet: A Theoretical Study. <i>Materials</i> , 2020, 13, 4399.	1.3	5
44	Two-spin and multi-spin quantum entanglement in V12 polyoxovanadate molecular nanomagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 546, 168782.	1.0	5
45	Spin State Switching in Heptauthrene Nanostructure by Electric Field: Computational Study. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13364.	1.8	5
46	Magnetocaloric and electrocaloric properties of the Hubbard pair cluster. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 527, 167767.	1.0	4
47	Exact Diagonalization Study of an Extended Hubbard Model for a Cubic Cluster at Quarter Filling. <i>Acta Physica Polonica A</i> , 2017, 131, 1012-1014.	0.2	4
48	Critical Temperature of Site-Diluted Spin-1/2 Systems with Long-Range Ferromagnetic Interactions. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 044002.	0.7	3
49	Magnetization distribution in a spin ladder-shaped quantum nanomagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 469, 411-418.	1.0	3
50	A novel critical behavior of the spin-1 Blume-Capel model with a distance-dependent nearest-neighbor exchange interaction and magneto-elastic coupling. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 335801.	0.7	3
51	The RKKY Coupling of Two Magnetically Doped Monolayers in Thin Films. <i>Acta Physica Polonica A</i> , 2008, 114, 1375-1382.	0.2	3
52	Spin-Glass-Like Ordering in a Frustrated J_1 - J_2 Ising Antiferromagnet on a Honeycomb Lattice. <i>Acta Physica Polonica A</i> , 2020, 137, 619-621.	0.2	3
53	Indirect Coupling Between Localized Magnetic Moments in Zero-Dimensional Graphene Nanostructures (Quantum Dots). <i>Acta Physica Polonica A</i> , 2014, 126, 236-237.	0.2	2
54	Frustration in a Mixed-Spin Ising Model With Multi-Spin Interactions. <i>Acta Physica Polonica A</i> , 2014, 126, 48-49.	0.2	1

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55	Ground-state magnetic properties of spin ladder-shaped quantum nanomagnet: Exact diagonalization study. Journal of Magnetism and Magnetic Materials, 2018, 452, 253-260.	1.0	1
56	The Pair Approximation method for the ferromagnetic Heisenberg model with spin S and arbitrary range of interactions. Application for the magnetic semiconductor CrIAs. Journal of Magnetism and Magnetic Materials, 2020, 513, 167157.	1.0	1
57	Ground-State Phase Diagram of a Model FCC Magnet with Modified RKKY Interaction. Acta Physica Polonica A, 2008, 113, 421-424.	0.2	1
58	Nearest-neighbour antiferromagnetic interaction as a limiting factor for critical temperature in a model DMS system. Physica Status Solidi (B): Basic Research, 2011, 248, 1623-1627.	0.7	0
59	Size Control Methods and Size-Dependent Properties of Graphene. , 2016, , 45-58.		0