Akai K Murtazaev

List of Publications by Year
in descending order

142	1,385	361413	501196
papers	citations	20 h-index	28 g-index

147	147	147	244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monte Carlo studies of phase transitions and critical phenomena. Physics-Uspekhi, 1999, 42, 689-709.	2.2	42
2	Ising model on a square lattice with second-neighbor and third-neighbor interactions. Journal of Magnetism and Magnetic Materials, 2015, 384, 247-254.	2.3	41
3	Influence of field on frustrations in low-dimensional magnets. Journal of Magnetism and Magnetic Materials, 2012, 324, 3418-3421.	2.3	39
4	Critical behavior of a cubic-lattice 3D Ising model for systems with quenched disorder. Journal of Experimental and Theoretical Physics, 2004, 99, 1201-1206.	0.9	35
5	Phase transitions in the antiferromagnetic Ising model on a body-centered cubic lattice with interactions between next-to-nearest neighbors. Journal of Experimental and Theoretical Physics, 2015, 120, 110-114.	0.9	34
6	Critical properties of the two-dimensional Ising model on a square lattice with competing interactions. Physica B: Condensed Matter, 2015, 476, 1-5.	2.7	32
7	Critical properties of the three-dimensional Ising model with quenched disorder. Journal of Magnetism and Magnetic Materials, 2009, 321, 2630-2635.	2.3	30
8	Thermodynamic, critical properties and phase transitions of the Ising model on a square lattice with competing interactions. Solid State Communications, 2016, 233, 35-40.	1.9	30
9	Phase diagrams and ground-state structures of the Potts model on a triangular lattice. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 543-550.	2.6	30
10	Tricritical point of the three-dimensional Potts model (q = 4) with quenched nonmagnetic disorder. JETP Letters, 2014, 99, 535-539.	1.4	27
11	Critical properties of the three-dimensional frustrated Heisenberg model on a layered-triangular lattice with variable interplane exchange interaction. Physical Review B, 2007, 76, .	3.2	26
12	Phase transitions in the antiferromagnetic ising model on a square lattice with next-nearest-neighbor interactions. Journal of Experimental and Theoretical Physics, 2013, 117, 1091-1096.	0.9	26
13	Phase transitions and critical properties in the antiferromagnetic Heisenberg model on a layered cubic lattice. JETP Letters, 2017, 106, 86-91.	1.4	26
14	Phase transitions in the antiferromagnetic layered Ising model on a cubic lattice. JETP Letters, 2016, 103, 460-464.	1.4	25
15	Critical properties of an antiferromagnetic Ising model on a square lattice with interactions of the next-to-nearest neighbors. Low Temperature Physics, 2011, 37, 1001-1005.	0.6	23
16	Phase transitions and critical phenomena in the antiferromagnetic Ising model on a layered triangular lattice. Physica A: Statistical Mechanics and Its Applications, 2018, 507, 210-218.	2.6	23
17	Investigation of the influence of quenched nonmagnetic impurities on phase transitions in the three-dimensional Potts model. Physics of the Solid State, 2008, 50, 733-739.	0.6	22
18	Phase transitions and critical phenomena in a three-dimensional site-diluted Potts model. Journal of Magnetism and Magnetic Materials, 2012, 324, 3870-3875.	2.3	22

#	Article	IF	Citations
19	Phase transitions and critical characteristics in the layered antiferromagnetic Ising model with next-nearest-neighbor intralayer interactions. JETP Letters, 2015, 101, 714-718.	1.4	22
20	Finite-size scaling and critical exponents of the real antiferromagnetic model. Journal of Magnetism and Magnetic Materials, 1999, 204, 151-158.	2.3	21
21	Monte Carlo investigation of phase transitions in the frustrated Heisenberg model on a triangular lattice. Physics of the Solid State, 2010, 52, 1673-1679.	0.6	21
22	Phase diagrams and ground-state structures of the antiferromagnetic materials on a body-centered cubic lattice. Materials Letters, 2019, 236, 669-671.	2.6	21
23	Phase Transitions and Thermodynamic Properties of the Potts Model with Spin States Number q = 4 on a Hexagonal Lattice. Journal of Experimental and Theoretical Physics, 2019, 129, 421-425.	0.9	19
24	Phase diagram of the antiferromagnetic Heisenberg model on a bcc lattice with competing first and second neighbor interactions. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123548.	2.6	18
25	Critical Properties of the Three-Dimensional Frustrated Ising Model on a Cubic Lattice. Physics of the Solid State, 2005, 47, 1163.	0.6	17
26	Static critical behavior of 3D frustrated Heisenberg model on stacked triangular lattice with variable interlayer exchange coupling. Journal of Experimental and Theoretical Physics, 2007, 105, 1011-1017.	0.9	17
27	Study of critical properties of the frustrated antiferromagnetic Heisenberg model on a triangular lattice. Physics of the Solid State, 2011, 53, 1067-1072.	0.6	17
28	Magnetic and critical properties of models of magnetic superlattices. Journal of Magnetism and Magnetic Materials, 2006, 300, e546-e549.	2.3	16
29	Monte Carlo investigation of the critical properties of a three-dimensional frustrated Heisenberg model on a triangular lattice. Low Temperature Physics, 2009, 35, 521-525.	0.6	16
30	Phase transitions in the two-dimensional ferro- and antiferromagnetic potts models on a triangular lattice. Journal of Experimental and Theoretical Physics, 2012, 115, 1042-1047.	0.9	16
31	Phase Diagram of the Antiferromagnetic Heisenberg Model on a Cubic Lattice. JETP Letters, 2019, 109, 589-593.	1.4	16
32	A study of the critical properties of the Ising model on body-centered cubic lattice taking into account the interaction of next behind nearest neighbors. Physics of the Solid State, 2017, 59, 1103-1109.	0.6	15
33	Frustrations and phase transitions in the three-vertex Potts model with next-nearest-neighbor interactions on a triangular lattice. JETP Letters, 2014, 100, 242-246.	1.4	14
34	Computer simulation of critical behavior in spin models with nonmagnetic impurities. Low Temperature Physics, 2015, 41, 608-613.	0.6	14
35	Phase Diagram and Structure of the Ground State of the Antiferromagnetic Ising Model on a Body-Centered Cubic Lattice. JETP Letters, 2018, 107, 259-263.	1.4	14
36	Influence of quenched non-magnetic impurities on phase transitions in the two-dimensional Potts model with qâ€¯=â€¯5. Materials Letters, 2020, 258, 126771.	2.6	14

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37	Phase transition properties of three-dimensional systems described by diluted potts model. Journal of Experimental and Theoretical Physics, 2009, 109, 442-445.	0.9	13
38	Phase transitions in the Ising model on a layered triangular lattice in a magnetic field. Physica A: Statistical Mechanics and Its Applications, 2020, 555, 124530.	2.6	13
39	Static critical behavior of the 3D frustrated Heisenberg model on a layered triangular lattice. Low Temperature Physics, 2006, 32, 241-244.	0.6	12
40	Critical properties of the anisotropic Ising model with competing interactions. Journal of Experimental and Theoretical Physics, 2011, 113, 106-112.	0.9	12
41	Phase transitions in a three-dimensional diluted Potts model with 4 spin states. Low Temperature Physics, 2011, 37, 134-137.	0.6	12
42	Phase transitions and critical properties of the frustrated Heisenberg model on a layer triangular lattice with next-to-nearest-neighbor interactions. Journal of Experimental and Theoretical Physics, 2012, 115, 303-308.	0.9	12
43	Phase Transformations and Thermodynamic Properties of the Potts Model with q = 4 on a Hexagonal Lattice with Interactions of Next-Nearest Neighbors. Physics of the Solid State, 2020, 62, 499-503.	0.6	12
44	Cluster algorithms of the Monte Carlo method, finite-size scaling, and critical exponents of complex lattice models. Journal of Experimental and Theoretical Physics, 2001, 93, 1330-1336.	0.9	11
45	Critical properties of an ANNNI-model in the neighborhood of multicritical Lifshitz point. Solid State Communications, 2012, 152, 177-179.	1.9	11
46	Tricritical point for the three-dimensional disordered Potts model (q = 3) on a simple cubic lattice. JETP Letters, 2017, 105, 384-387.	1.4	11
47	Phase Transitions in the Antiferromagnetic Heisenberg Model on a Body-Centered Cubic Lattice with Allowance for the Next-Nearest-Neighbor Interactions. Physics of the Solid State, 2018, 60, 1173-1176.	0.6	11
48	Phase Transitions and Critical Properties of the Heisenberg Antiferromagnetic Model on a Body-Centered Cubic Lattice with Second Nearest Neighbor Interaction. Journal of Experimental and Theoretical Physics, 2019, 129, 903-910.	0.9	11
49	The critical behavior of the two-dimensional three-state Potts model on a triangular lattice with quenched disorder. Materials Letters, 2019, 238, 321-323.	2.6	11
50	Critical properties of frustrated spin systems on a stacked triangular lattice. Physics-Uspekhi, 2008, 51, .	2.2	10
51	Histogram data analysis for a three-dimensional diluted ferromagnetic 3- and 4-state potts models. Journal of Experimental and Theoretical Physics, 2013, 116, 101-104.	0.9	10
52	Phase transitions in a two-dimensional antiferromagnetic Potts model on a triangular lattice with next-nearest neighbor interactions. Journal of Experimental and Theoretical Physics, 2016, 122, 310-317.	0.9	10
53	Phase transitions and thermodynamic properties of antiferromagnetic Ising model with next-nearest-neighbor interactions on the KagomÃ© lattice. Phase Transitions, 2018, 91, 610-618.	1.3	10
54	Investigation of the Critical Properties in the 3D Site-Diluted Potts Model. Solid State Phenomena, 0, 152-153, 571-574.	0.3	9

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55	Phase transitions in two-dimensional ferromagnetic Potts model withqâ€‰=â€‰3 on a triangular lattice. Low Temperature Physics, 2013, 39, 147-150.	0.6	9
56	Phase transitions and critical properties in the antiferromagnetic Ising model on a layered triangular lattice with allowance for intralayer next-nearest-neighbor interactions. Journal of Experimental and Theoretical Physics, 2016, 123, 623-628.	0.9	9
57	Three-state Potts model on triangular lattice with nearest-neighbor and next-nearest-neighbor antiferromagnetic interactions. Solid State Communications, 2016, 246, 41-46.	1.9	9
58	Phase transitions and thermodynamic properties of triangular strongly-diluted antiferromagnetic Potts model. Journal of Magnetism and Magnetic Materials, 2017, 440, 101-103.	2.3	9
59	Phase Transitions and the Thermodynamic Properties of the Potts Model with the Number of Spin States q = 4 on a Triangular Lattice. Physics of the Solid State, 2019, 61, 2172-2176.	0.6	9
60	Heat capacity of a Cr2O3 antiferromagnet near the critical temperature. Physics of the Solid State, 2001, 43, 1103-1107.	0.6	8
61	Investigation on the critical dynamics of real magnetics models by computational physics methods. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 48-50.	2.3	8
62	Monte-Carlo investigation of an anisotropic Ising model. Low Temperature Physics, 2009, 35, 792-796.	0.6	8
63	Decorated Ising Square Lattice in a Magnetic Field. Physics of the Solid State, 2020, 62, 770-776.	0.6	8
64	Title is missing!. Physics-Uspekhi, 2006, 49, 1092.	2.2	7
65	Effect of quenched-in nonmagnetic impurities on phase transitions in a two-dimensional antiferromagnetic three-vertex Potts model on a triangular lattice. Physics of the Solid State, 2015, 57, 1436-1438.	0.6	7
66	Effect of Magnetic Field on the Thermodynamic and Magnetic Properties of the Antiferromagnetic Ising Model on a Body-Centered Cubic Lattice. Physics of the Solid State, 2020, 62, 273-277.	0.6	7
67	Critical properties of the model of antiferromagnet Cr2O3. Low Temperature Physics, 1999, 25, 344-350.	0.6	6
68	Investigation of critical phenomena of the hard/soft magnetic bilayer model by the Monte-Carlo method. Journal of Alloys and Compounds, 2016, 678, 167-170.	5.5	6
69	Influence of frustrations on the thermodynamic properties of the low-dimensional Potts model studied by computer simulation. Physics of the Solid State, 2016, 58, 2074-2077.	0.6	6
70	Critical properties of the antiferromagnetic layered Ising model on a cubic lattice with competing interactions. Physics of the Solid State, 2017, 59, 1822-1828.	0.6	6
71	Thermodynamic and magnetic properties of a three-state Potts model on a triangular lattice with next-neighbor interactions. Physics of the Solid State, 2017, 59, 2444-2447.	0.6	6
72	Magnetization reversal of hard/soft magnetic bilayer. Journal of Alloys and Compounds, 2019, 785, 1253-1256.	5.5	6

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73	The critical properties of the Ising model in a magnetic field. Low Temperature Physics, 2020, 46, 693-696.	0.6	6
74	Phase Transitions in Low-Dimensional Disordered Potts Models. Physics of the Solid State, 2020, 62, 851-855.	0.6	6
75	Study of Phase Transitions in the Antiferromagnetic Heisenberg Model on a Body-Centered Cubic Lattice by Monte Carlo Simulation. Physics of Metals and Metallography, 2020, 121, 305-309.	1.0	6
76	Phase Transitions in 3D Site-Diluted Potts Model with Spin States <i>q</i>=4. Solid State Phenomena, 0, 168-169, 357-360.	0.3	5
77	On choosing the order parameter of modulated magnetic structures. Journal of Experimental and Theoretical Physics, 2013, 116, 266-271.	0.9	5
78	Investigation of the thermodynamic properties and phase transitions in a strongly diluted three-vertex antiferromagnetic Potts model by the Monte Carlo method. Physics of the Solid State, 2017, 59, 141-144.	0.6	5
79	Monte Carlo study of magnetization reversal in the model of a hard/soft magnetic bilayer. Journal of Experimental and Theoretical Physics, 2017, 124, 924-931.	0.9	5
80	Studying Thermodynamic Properties of the Ising Model on a Body-Centered Cubic Lattice with Competing Exchange Interactions. Physics of the Solid State, 2018, 60, 1848-1852.	0.6	5
81	Phase transitions in the Ising model on a triangular lattice with different values of interlayer exchange interaction. Low Temperature Physics, 2019, 45, 1263-1266.	0.6	5
82	Phase Transitions and the Thermodynamic Properties of the Potts Model with the Spin State Number q = 4 at a Kagome Lattice. Physics of the Solid State, 2020, 62, 1434-1438.	0.6	5
83	Effect of quenched non-magnetic impurities on phase transitions in a two-dimensional Potts model. Low Temperature Physics, 2020, 46, 688-692.	0.6	5
84	Traditional international conference on phase transitions and related critical and nonlinear phenomena in condensed media (11â€“14 September 2002, Makhachkala, Dagestan, RF). Physics-Uspekhi, 2003, 46, 1291-1294.	2.2	4
85	Dynamic critical behavior in models of ferromagnetic gadolinium. Journal of Experimental and Theoretical Physics, 2005, 101, 299-304.	0.9	4
86	Critical behavior of spin systems with quenched disorder. Journal of Magnetism and Magnetic Materials, 2006, 300, e538-e541.	2.3	4
87	Title is missing!. Physics-Uspekhi, 2008, 51, 199.	2.2	4
88	Short-time dynamics of Fe2/V13 magnetic superlattice models. Journal of Experimental and Theoretical Physics, 2013, 116, 604-608.	0.9	4
89	The critical relaxation of the model of ironâ€“vanadium magnetic superlattice. Journal of Magnetism and Magnetic Materials, 2013, 325, 122-124.	2.3	4
90	Frustrations and phase transitions in the Ising model on square lattice. Journal of Physics: Conference Series, 2014, 510, 012026.	0.4	4

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91	Thermodynamic properties of a hard/soft-magnetic bilayer model. Journal of Experimental and Theoretical Physics, 2016, 122, 883-889.	0.9	4
92	Weak Universality in the Disordered Two-Dimensional Antiferromagnetic Potts Model on a Triangular Lattice. JETP Letters, 2018, 107, 624-628.	1.4	4
93	Critical Temperature of the Three-Vertex Potts Model on a Kagome Lattice. Physics of the Solid State, 2019, 61, 1284-1287.	0.6	4
94	Quantum Monte Carlo study of low-dimensional magnetic system. Journal of Magnetism and Magnetic Materials, 2006, 300, e570-e573.	2.3	3
95	Phase Transitions and the Critical Properties of the Heisenberg Model on a Body-Centered Cubic Lattice. Physics of the Solid State, 2019, 61, 1107-1112.	0.6	3
96	Critical Properties in the Ising Model on a Triangular Lattice with the Variable Interlayer Exchange Interaction. Physics of the Solid State, 2019, 61, 1854-1859.	0.6	3
97	Effect of Exchange Interaction Constants on the Magnetization Reversal in a Hard/Soft Magnetic Bilayer Model. Journal of Experimental and Theoretical Physics, 2019, 129, 277-282.	0.9	3
98	Critical properties of an antiferromagnetic decorated Ising model on a square lattice. Low Temperature Physics, 2020, 46, 1016-1020.	0.6	3
99	Influence of Quenched Non-Magnetic Impurities on Phase Transitions in Low-Dimensional Potts Models. Journal of Surface Investigation, 2020, 14, 727-729.	0.5	3
100	Frustrated Potts Model with Spin States Number q = 4 on a Triangular Lattice. Journal of Experimental and Theoretical Physics, 2020, 131, 951-955.	0.9	3
101	Phase Transitions in the Two-Dimensional Slightly Diluted Five-Vertex Potts Model. Physics of the Solid State, 2020, 62, 1228-1230.	0.6	3
102	Critical behavior of small magnetic particles in Cr2O3. Low Temperature Physics, 1998, 24, 349-353.	0.6	2
103	Critical dynamics of models of the antiferromagnet Cr2O3. Journal of Experimental and Theoretical Physics, 2000, 90, 488-490.	0.9	2
104	Statical critical properties of gadolinium models. Physics of the Solid State, 2001, 43, 685-691.	0.6	2
105	Monte Carlo study of the critical properties of yttrium orthoferrite. Low Temperature Physics, 2005, 31, 139-142.	0.6	2
106	Critical properties of small magnetic particles of YFeO3. Low Temperature Physics, 2006, 32, 932-935.	0.6	2
107	Investigation of the 3D ANNNI Model by Monte Carlo Methods. Solid State Phenomena, 2009, 152-153, 575-578.	0.3	2
108	The Investigation of Phase Transitions in Two-Dimensional 3-State Antiferromagnetic Potts Model on a Triangular Lattice with Interaction of Next Nearest Neighbors. Solid State Phenomena, 2014, 215, 52-54.	0.3	2

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109	Short-time dynamics of the three-dimensional fully frustrated Ising model. JETP Letters, 2015, 102, 51-54.	1.4	2
110	Computer simulation of the critical behavior of highly diluted low-dimensional antiferromagnetic systems on a triangular lattice. Low Temperature Physics, 2018, 44, 1348-1350.	0.6	2
111	Computer Simulation of Critical Behavior of Two-Dimensional Weakly Diluted Antiferromagnetic Potts Model on a Triangular Lattice. Physics of the Solid State, 2018, 60, 1180-1183.	0.6	2
112	Density of States and the Ground State Structure in the Ising Model on a Kagome Lattice with Consideration for Next-Nearest-Neighbor Interaction. Physics of the Solid State, 2018, 60, 1184-1189.	0.6	2
113	Critical behavior of the specific heat of small magnetic Cr2O3 particles. Physics of the Solid State, 1998, 40, 1511-1512.	0.6	1
114	Monte Carlo investigation of critical phenomena in models of real magnetics with crossovers. Computer Physics Communications, 2002, 147, 447-450.	7.5	1
115	Frustrations and Phase Transitions in Ising Model on 2D Lattices. Solid State Phenomena, 2010, 168-169, 435-438.	0.3	1
116	Investigation of Multicritical Phenomena in Complex Models of Magnetics by Monte-Carlo Methods. Solid State Phenomena, 0, 190, 391-395.	0.3	1
117	Critical properties of the models of small magnetic particles of the antiferromagnet MnF2. Journal of Experimental and Theoretical Physics, 2014, 118, 904-908.	0.9	1
118	Frustrations and Phase Transitions in Low-Dimensional Magnetic Systems. Materials Science Forum, 2016, 845, 111-116.	0.3	1
119	Critical Properties of the Anisotropic Ising Model with Competitive Interactions in the Region of a Phase Transition from the Modulated Phase to the Paramagnetic One. Journal of Experimental and Theoretical Physics, 2018, 127, 1040-1045.	0.9	1
120	Critical Relaxation of a Three-Dimensional Fully Frustrated Ising Model. Physics of the Solid State, 2018, 60, 1120-1124.	0.6	1
121	Computer Modeling of Phase Transformations and Critical Properties of the Frustrated Heisenberg Model for a Cubic Lattice. Physics of the Solid State, 2020, 62, 976-981.	0.6	1
122	Effect of a Soft Magnetic Phase on the Processes of Magnetization Reversal of a Hard/Soft Magnetic Bilayer. Physics of the Solid State, 2020, 62, 954-958.	0.6	1
123	Hard/soft magnetic bilayer. Monte Carlo study. Journal of Magnetism and Magnetic Materials, 2021, 524, 167638.	2.3	1
124	Calculation of relative dispersions of magnetization, susceptibility, and heat capacity in a two-dimensional weakly diluted Potts model based on computer simulation methods. Low Temperature Physics, 2021, 47, 119-122.	0.6	1
125	Ibragimkhan Kamilovich Kamilov (on his seventieth birthday). Physics-Uspekhi, 2005, 48, 1199-1201.	2.2	0
126	Investigation of Magnetic and Thermal Properties of Model Fe/V Superlattices. Solid State Phenomena, 2009, 152-153, 551-554.	0.3	0

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127	Investigation of the effect of frustration on the critical properties of the 3D Heisenberg antiferromagnetic model. Journal of Communications Technology and Electronics, 2009, 54, 191-196.	0.5	0
128	Investigation of Phase Transitions in the Site-Diluted Three-Dimensional Potts Model. Solid State Phenomena, 0, 190, 687-690.	0.3	0
129	The critical dynamics of the models of ironâ€“vanadium magnetic superlattice. Physica B: Condensed Matter, 2013, 414, 1-6.	2.7	0
130	Phase Transitions in the Antiferromagnetic Heisenberg Model on a Triangular Lattice with the Next-Nearest Neighbor Interactions. Solid State Phenomena, 0, 215, 3-10.	0.3	0
131	Ising Antiferromagnet with Nearest-Neighbor and Next-Nearest-Neighbor Interactions on a Square Lattice. Solid State Phenomena, 0, 215, 17-21.	0.3	0
132	Modulated Nanomagnetics. Solid State Phenomena, 2014, 215, 41-45.	0.3	0
133	Computer simulation of diluted magnetic nanostructures. Low Temperature Physics, 2016, 42, 1120-1121.	0.6	0
134	Influence of the Surface on the Thermodynamic and Magnetic Properties of the Anisotropic Ising Model with Competing Interactions. Materials Science Forum, 2016, 845, 97-100.	0.3	0
135	Short-Time Dynamics of the Three-Dimensional Ising Model with Competing Interactions. JETP Letters, 2018, 108, 44-47.	1.4	0
136	Critical properties of 2d disordered 3-state antiferromagnetic potts model ON TRIANGULAR LATTICE. EPJ Web of Conferences, 2018, 185, 11001.	0.3	0
137	Phase transitions and thermodynamic properties of the antiferromagnetic Potts model on a face-centered cubic lattice. EPJ Web of Conferences, 2018, 185, 11008.	0.3	0
138	Energy analysis of the three-vertex Potts model ground state. Low Temperature Physics, 2018, 44, 1145-1148.	0.6	0
139	Ground State of an Antiferromagnetic Three-State Potts Model on a Triangular Lattice with Competing Interactions. Journal of Experimental and Theoretical Physics, 2018, 127, 323-327.	0.9	0
140	Thermodynamic and Magnetic Properties of the Two-Dimensional Anisotropic Ising Model with Competing Interactions. Physics of the Solid State, 2019, 61, 1867-1871.	0.6	0
141	Phase transitions in the two-dimensional four-vertex Potts model with quenched nonmagnetic impurities. Journal of Physics: Conference Series, 2019, 1389, 012010.	0.4	0
142	Study of the Two-Dimensional Anisotropic Ising Model with Competing Interactions in the Region of a Transition from the Ferromagnetic to Paramagnetic State. Journal of Experimental and Theoretical Physics, 2020, 130, 86-93.	0.9	0