

Pavel V Prudnikov

List of Publications by Year in descending order

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papers

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89
all docs

89
docs citations

89
times ranked

189
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-theory approach to critical behavior of systems with long-range correlated defects. Physical Review B, 2000, 62, 8777-8786.	1.1	60
2	Short-time dynamics and critical behavior of the three-dimensional site-diluted Ising model. Physical Review E, 2010, 81, 011130.	0.8	40
3	Dimensionality crossover in critical behaviour of ultrathin ferromagnetic films. Journal of Magnetism and Magnetic Materials, 2015, 387, 77-82.	1.0	40
4	Computer simulation of the critical behavior of 3D disordered Ising model. Journal of Experimental and Theoretical Physics, 2007, 105, 371-378.	0.2	31
5	Nonequilibrium critical behavior of model statistical systems and methods for the description of its features. Physics-Uspekhi, 2017, 60, 762-797.	0.8	31
6	Calculations of the dynamical critical exponent using the asymptotic series summation method. Theoretical and Mathematical Physics(Russian Federation), 2006, 147, 561-575.	0.3	30
7	Dimensional effects in ultrathin magnetic films. JETP Letters, 2014, 100, 446-450.	0.4	30
8	Static and dynamic critical properties of 3D systems with long-range correlated quenched defects. Journal of Physics A, 1999, 32, 8587-8600.	1.6	28
9	Short-Time Critical Dynamics of the Three-Dimensional Systems with Long-Range Correlated Disorder. Progress of Theoretical Physics, 2007, 117, 973-991.	2.0	26
10	Monte Carlo simulation of multilayer magnetic structures and calculation of the magnetoresistance coefficient. JETP Letters, 2015, 102, 668-673.	0.4	22
11	Renormalization-group description of nonequilibrium critical short-time relaxation processes: A three-loop approximation. Journal of Experimental and Theoretical Physics, 2008, 106, 1095-1101.	0.2	20
12	Nonequilibrium aging effects in the critical behavior of structurally disordered planar magnets. JETP Letters, 2015, 101, 539-544.	0.4	20
13	Monte Carlo calculations of the magnetoresistance in magnetic multilayer structures with giant magnetoresistance effects. Journal Physics D: Applied Physics, 2016, 49, 235002.	1.3	20
14	Investigation of the effects of aging and temperature dependence of the transverse rigidity of a system in the two-dimensional XY model. Physics of Metals and Metallography, 2014, 115, 1186-1193.	0.3	17
15	Aging and non-equilibrium critical phenomena in Monte Carlo simulations of 3D pure and diluted Ising models. Progress of Theoretical and Experimental Physics, 2015, 2015, 53A01-0.	1.8	17
16	Non-Equilibrium Critical Relaxation of the 3D Heisenberg Magnets with Long-Range Correlated Disorder. Progress of Theoretical Physics, 2012, 127, 369-382.	2.0	15
17	Influence of disorder on critical ageing in 3D Ising model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 774-778.	0.9	15
18	Calculation of the fluctuation-dissipation ratio for the nonequilibrium critical behavior of disordered systems. JETP Letters, 2014, 98, 619-625.	0.4	13

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19	Monte Carlo investigations of the influence of structural defects on aging effects and the violation of the fluctuation-dissipation theorem for a nonequilibrium critical behavior in the three-dimensional Ising model. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 118, 401-409.	0.2	13
20	Aging effects in the nonequilibrium behavior of multilayer magnetic superstructures. <i>JETP Letters</i> , 2016, 104, 776-783.	0.4	13
21	Influence of anisotropy on magnetoresistance in magnetic multilayer structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 482, 201-205.	1.0	13
22	Field-theoretic description of the multicritical behavior of systems with two order parameters. <i>JETP Letters</i> , 1998, 68, 950-956.	0.4	11
23	Nonequilibrium critical relaxation of structurally disordered systems in the short-time regime: Renormalization group description and computer simulation. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 110, 253-264.	0.2	11
24	Universal Berezinskii-Kosterlitz-Thouless dynamic scaling in the intermediate time range in frustrated Heisenberg antiferromagnets on a triangular lattice. <i>Physical Review B</i> , 2017, 95, .	1.1	11
25	Superaging and Subaging Phenomena in a Nonequilibrium Critical Behavior of the Structurally Disordered Two-Dimensional XY Model. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 126, 368-382.	0.2	11
26	Influence of disorder on ageing and memory effects in non-equilibrium critical dynamics of 3D Ising model relaxing from an ordered state. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 043303.	0.9	10
27	Influence of long-range correlated defects on critical ultrasound propagation in solids. <i>Physical Review B</i> , 2009, 80, .	1.1	9
28	Aging and memory effects in the nonequilibrium critical behavior of structurally disordered magnetic materials in the course of their evolution from the low-temperature initial state. <i>JETP Letters</i> , 2015, 102, 167-175.	0.4	9
29	Critical behavior of disordered systems with replica symmetry breaking. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 95, 550-559.	0.2	7
30	Effects of Superaging and Percolation Crossover on the Nonequilibrium Critical Behavior of the Two-Dimensional Disordered Ising Model. <i>JETP Letters</i> , 2018, 107, 569-576.	0.4	7
31	Stability of critical behaviour of weakly disordered systems to introduction of potentials with replica symmetry breaking. <i>Journal of Physics A</i> , 2001, 34, L145-L152.	1.6	5
32	Non-equilibrium critical vortex dynamics of disordered 2D XY-model. <i>Journal of Physics: Conference Series</i> , 2016, 681, 012015.	0.3	5
33	Renormalization group description of the effect of structural defects on phase transitions in complex spin systems with random anisotropy effects and structural defects. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2017, 190, 359-365.	0.3	5
34	Analysis of the Effect of Different Initial States and Structural Defects on the Characteristics of the Nonequilibrium Critical Behavior of the 3D Ising Model. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 125, 1102-1115.	0.2	5
35	Non-equilibrium critical behavior of the 3D classical Heisenberg model. <i>Journal of Physics: Conference Series</i> , 2019, 1163, 012020.	0.3	5
36	Non-equilibrium critical dynamics of multilayer magnetic structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 470, 143-146.	1.0	5

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37	The influence of disorder on the critical sound attenuation in solids. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L485-L492.	0.7	4
38	Non-equilibrium critical dynamics of pure and diluted 2D XY-model. <i>Journal of Physics: Conference Series</i> , 2014, 510, 012014.	0.3	4
39	Manifestation of aging in giant magnetoresistance of the Co/Cu/Co nanostructure. <i>Journal of Physics Communications</i> , 2019, 3, 015002.	0.5	4
40	Non-equilibrium vortex annealing of structural disorder in Berezinskii-Kosterlitz-Thouless dynamics of the two-dimensional XY-model. <i>Europhysics Letters</i> , 2019, 128, 26002.	0.7	4
41	Boundary critical behaviour at axial Lifshitz points of semi-infinite systems with a surface plane perpendicular to a modulation axis. <i>Journal of Physics A</i> , 2006, 39, 7927-7942.	1.6	3
42	Monte Carlo simulation of critical properties of ultrathin anisotropic Heisenberg films. <i>Journal of Physics: Conference Series</i> , 2014, 510, 012024.	0.3	3
43	Monte Carlo simulation of magnetic multilayered structures with giant magnetoresistance effects. <i>Journal of Physics: Conference Series</i> , 2016, 681, 012016.	0.3	3
44	Monte Carlo simulation of the non-equilibrium critical dynamics of low-dimensional magnetics and multilayer structures. <i>Lobachevskii Journal of Mathematics</i> , 2017, 38, 944-947.	0.1	3
45	Aging Effects in the Nonequilibrium Behavior of Magnetic Superstructures and Their Manifestation in Magnetoresistance. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 731-741.	0.2	3
46	Specific Features of the Effect of Structural Defects on the Correlation and Interaction of Vortex Excitations in the Nonequilibrium BKT Dynamics of the Two-Dimensional XY Model. <i>Journal of Experimental and Theoretical Physics</i> , 2020, 131, 768-792.	0.2	3
47	Stability of the critical behavior of weakly disordered systems with respect to the introduction of an interaction potential breaking replica symmetry. <i>Physics of the Solid State</i> , 2001, 43, 1759-1764.	0.2	2
48	Anomalous ultrasound attenuation in solids during second-order phase transitions with allowance for relaxation effects. <i>Physics of Metals and Metallography</i> , 2007, 104, 221-227.	0.3	2
49	Effect of structural defects on anomalous ultrasound propagation in solids during second-order phase transitions. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 106, 897-904.	0.2	2
50	Ageing and non-equilibrium critical phenomena in Monte Carlo simulations. <i>Journal of Physics: Conference Series</i> , 2014, 510, 012020.	0.3	2
51	Ageing properties of three-dimensional pure and site-diluted Ising ferromagnets. <i>Journal of Physics: Conference Series</i> , 2014, 510, 012015.	0.3	2
52	Monte Carlo Study of the Effect of Initial States and Structural Defects on Nonequilibrium Critical Behavior of the Three-Dimensional Ising Model. <i>Physics of the Solid State</i> , 2018, 60, 1098-1110.	0.2	2
53	Marginal Effect of Structural Defects on the Nonequilibrium Critical Behavior of the Two-Dimensional Ising Model. <i>Journal of Experimental and Theoretical Physics</i> , 2020, 130, 258-273.	0.2	2
54	Multicritical behavior of disordered systems with two order parameters. <i>Physics of the Solid State</i> , 2000, 42, 165-169.	0.2	1

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55	Stability of the critical behavior of weakly disordered systems against replica symmetry breaking. JETP Letters, 2001, 73, 135-140.	0.4	1
56	Nonequilibrium critical dynamics of structurally disordered systems with long-range correlated defects. JETP Letters, 2011, 93, 103-108.	0.4	1
57	Nonequilibrium critical behavior of highly disordered magnets with long-range defect correlation. Low Temperature Physics, 2014, 40, 443-449.	0.2	1
58	Monte-Carlo investigation of competition between uniaxial anisotropy, exchange and dipolar interactions in critical behavior of ultrathin magnetic films. Journal of Physics: Conference Series, 2016, 681, 012017.	0.3	1
59	Renormalization group description of the nonequilibrium critical dynamics of spin systems at the fixed space dimension $d = 3$. Theoretical and Mathematical Physics(Russian Federation), 2017, 190, 402-410.	0.3	1
60	Non-equilibrium critical dynamics of low-dimensional magnetics and multilayer structures. EPJ Web of Conferences, 2018, 185, 11009.	0.1	1
61	Dynamical Scaling in Time dependence of Correlation Length in Non-equilibrium Critical Relaxation of Pure and Site-diluted 2D XY-model. Journal of Physics: Conference Series, 2019, 1163, 012042.	0.3	1
62	Effect of the Initial States, the Anisotropy, and Structural Defects on a Nonequilibrium Critical Behavior of the Three-Dimensional Heisenberg Model. Physics of the Solid State, 2020, 62, 821-836.	0.2	1
63	Monte Carlo Simulation of Magnetic Multilayered Structures with the Effects of Giant Magnetoresistance. Journal of Siberian Federal University - Mathematics and Physics, 2017, 10, 65-70.	0.2	1
64	The effect of structural disorder on anomalous critical attenuation of ultrasound by solids. Russian Physics Journal, 2007, 50, 458-465.	0.2	0
65	Non-Equilibrium Critical Dynamics of Ferromagnets with Long Range Correlated Defects. Solid State Phenomena, 0, 190, 31-34.	0.3	0
66	Field-Theory Description of Nonequilibrium Critical Dynamics for Spin Systems. Solid State Phenomena, 0, 190, 23-26.	0.3	0
67	Ageing Phenomena in Two-Dimensional XY-Model. Solid State Phenomena, 0, 190, 3-6.	0.3	0
68	Non-Equilibrium Critical Relaxation of Heisenberg Ferromagnets with Long-Range Correlated Defects. Solid State Phenomena, 0, 190, 39-42.	0.3	0
69	Non-equilibrium critical behaviour of ultrathin magnetic and metamagnetic Ising films. Journal of Physics: Conference Series, 2014, 510, 012018.	0.3	0
70	Peculiarities of Non-Equilibrium Critical Behavior for 3D Diluted Ising Model with Evolution from Low-Temperature Initial State. Materials Science Forum, 0, 845, 85-88.	0.3	0
71	Monte Carlo Simulation of Thin Magnetic Films Critical Behavior. Materials Science Forum, 2016, 845, 89-92.	0.3	0
72	Non-equilibrium critical behavior of thin Ising films. Journal of Magnetism and Magnetic Materials, 2017, 440, 33-36.	1.0	0

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73	Magnetic properties of multilayers based on anisotropic Heisenberg films with dipolar long-range interaction. Journal of Physics: Conference Series, 2017, 903, 012018.	0.3	0
74	Monte Carlo simulation of aging phenomena in multilayer magnetic structures. EPJ Web of Conferences, 2018, 185, 03008.	0.1	0
75	Non-equilibrium critical behavior of Heisenberg thin films. EPJ Web of Conferences, 2018, 185, 11005.	0.1	0
76	Calculation of CPP-and CIP-magnitoresistance in multilayer magnetic structures. EPJ Web of Conferences, 2018, 185, 01009.	0.1	0
77	Influence of initial states and structure defects on non-equilibrium critical behavior of 3D and 2D Ising models. Journal of Physics: Conference Series, 2019, 1163, 012005.	0.3	0
78	Disorder Aggregation by Vortices in Non-Equilibrium Critical Annealing of Two-Dimensional XY-model. Journal of Physics: Conference Series, 2019, 1163, 012039.	0.3	0
79	Peculiarities of non-equilibrium critical behavior of site-diluted 2D Ising model. Journal of Physics: Conference Series, 2019, 1163, 012016.	0.3	0
80	Dimensional Crossover in Critical Behavior of Thin XY-films: Equilibrium and Non-equilibrium Properties. Journal of Physics: Conference Series, 2019, 1163, 012041.	0.3	0
81	Nonequilibrium critical dynamics of low-dimensional frustrated magnets and multilayer structures. Journal of Physics: Conference Series, 2019, 1163, 012068.	0.3	0
82	Non-equilibrium vortex annealing of structural disorder in the critical relaxation of diluted two-dimensional XY-model. Journal of Physics: Conference Series, 2019, 1389, 012024.	0.3	0
83	The dimensional crossover in critical behavior of layered XY-model. Journal of Physics: Conference Series, 2019, 1389, 012025.	0.3	0
84	Influence of diffuse interfaces on the magnetoresistance in trilayer magnetic structures. Journal of Physics: Conference Series, 2019, 1389, 012155.	0.3	0
85	Non-equilibrium critical behavior of multilayer magnetic nanostructures with a non-magnetic metal substrate. Journal of Physics: Conference Series, 2021, 1740, 012010.	0.3	0
86	Features of the Non-equilibrium Critical Dynamics in 3D Pure and Diluted Ising-like Ferromagnets. Journal of Siberian Federal University - Mathematics and Physics, 2016, 9, 463-468.	0.2	0
87	Bilayer Magnetic Structures with Dipolar Interaction in Magnetic Field. Journal of Siberian Federal University - Mathematics and Physics, 2017, 10, 257-260.	0.2	0
88	Influence of an Initial States on the Critical Relaxation of Ising-like Spin Systems. Journal of Siberian Federal University - Mathematics and Physics, 2018, 11, 295-299.	0.2	0
89	The Calculation of Magnetoresistance Coefficient for Multilayer Magnetic Structures. Journal of Siberian Federal University - Mathematics and Physics, 2018, 11, 733-737.	0.2	0