

Muktish Acharyya

List of Publications by Year in descending order

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papers

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77
docs citations

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times ranked

470
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the spread of an epidemic in presence of vaccination using cellular automata. International Journal of Modern Physics C, 2022, 33, .	1.7	1
2	Rodlike Heisenberg nanomagnet driven by propagating magnetic field: Nonequilibrium phase transition. International Journal of Modern Physics C, 2022, 33, .	1.7	1
3	Anisotropy-driven reversal of magnetisation in Blume-Capel ferromagnet: a Monte Carlo study. European Physical Journal B, 2021, 94, 1.	1.5	4
4	Metastability in graded and step like variation of field and anisotropy of the Blume-Capel ferromagnet. Physica A: Statistical Mechanics and Its Applications, 2021, 568, 125747.	2.6	5
5	Transient behavior towards the stable limit cycle in the Sel'kov model of Glycolysis: A physiological disorder. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125684.	2.6	2
6	Nonequilibrium multiple transitions in the core-shell Ising nanoparticles driven by randomly varying magnetic fields. Journal of Magnetism and Magnetic Materials, 2021, 527, 167721.	2.3	5
7	Metastable behavior of the spin- s Ising and Blume-Capel ferromagnets: A Monte Carlo study. Physical Review E, 2021, 104, 014107.	2.1	4
8	Competitive metastable behaviours of surface and bulk in Ising ferromagnet. European Physical Journal B, 2021, 94, 1.	1.5	1
9	Compensation in the spin-1/2 site diluted Ising ferrimagnet: a Monte Carlo study. Phase Transitions, 2020, 93, 62-73.	1.3	8
10	A Monte Carlo study on the variation of residual magnetisation with the ratio of coupling strengths and non-magnetic impurities in an Ising trilayer. AIP Conference Proceedings, 2020, , .	0.4	6
11	Role of anisotropy to the compensation in the Blume-Capel trilayered ferrimagnet. Superlattices and Microstructures, 2020, 147, 106648.	3.1	9
12	Effects of random fields on the reversal of magnetisation of Ising ferromagnet. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 124583.	2.6	8
13	Universality Class of the Nonequilibrium Phase Transition in Two-Dimensional Ising Ferromagnet Driven by Propagating Magnetic Field Wave. Applied Mathematics, 2019, 10, 568-577.	0.4	0
14	Magnetisation reversal in Ising ferromagnet by thermal and field gradients. Heliyon, 2018, 4, e00892.	3.2	6
15	Driven spin wave modes in XY ferromagnet: non-equilibrium phase transition. Phase Transitions, 2018, 91, 793-810.	1.3	1
16	Statistics of Projected Motion in One Dimension of a D-Dimensional Random Walker. Applied Mathematics, 2018, 09, 602-617.	0.4	0
17	Transient phases in the Vicsek model of flocking. Journal of Physics Through Computation, 2018, 1, 17-30.	0.0	1
18	Spin flip statistics and spin wave interference patterns in Ising ferromagnetic films: A Monte Carlo study. Heliyon, 2017, 3, e00357.	3.2	0

#	ARTICLE	IF	CITATIONS
19	Blume-Capel ferromagnet driven by propagating and standing magnetic field wave: Dynamical modes and nonequilibrium phase transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 53-59.	2.3	16
20	Nonequilibrium Phase Transition in Spin- S Ising Ferromagnet Driven by Propagating and Standing Magnetic Field Wave. <i>Communications in Theoretical Physics</i> , 2017, 68, 600.	2.5	4
21	Spatiotemporal dynamics of the Kuramoto-Sakaguchi model with time-dependent connectivity. <i>Physical Review E</i> , 2016, 94, 022213.	2.1	4
22	Standing magnetic wave on Ising ferromagnet: Nonequilibrium phase transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 420, 290-295.	2.3	8
23	Reversal of Magnetisation in Ising Ferromagnet by the Field Having Gradient. <i>Communications in Theoretical Physics</i> , 2016, 66, 563-570.	2.5	7
24	Exit Probability and First Passage Time of a Lazy Pearson Walker: Scaling Behaviour. <i>Applied Mathematics</i> , 2016, 07, 1353-1358.	0.4	0
25	Standing spin wave mode in RFIM: Patterns and athermal nonequilibrium phases. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 410-415.	2.3	2
26	Patterns, dynamics and phase transitions in Ising ferromagnet driven by propagating magnetic field wave. <i>Journal of Physics: Conference Series</i> , 2015, 638, 012008.	0.4	1
27	Ising metamagnet driven by propagating magnetic field wave: Nonequilibrium phases and transitions. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 382, 206-210.	2.3	10
28	Metabolic signatures of oxidative stress and their relationship with erythrocyte membrane surface roughness among workers of manual materials handling (MMH). <i>North American Journal of Medical Sciences</i> , 2015, 7, 558.	1.7	2
29	Model and Statistical Analysis of the Motion of a Tired Random Walker in Continuum. <i>Journal of Modern Physics</i> , 2015, 06, 2021-2034.	0.6	2
30	Polarised Electromagnetic Wave Propagation Through the Ferromagnet: Phase Boundary of Dynamic Phase Transition. <i>Acta Physica Polonica B</i> , 2014, 45, 1027.	0.8	9
31	Nucleation in Ising ferromagnet by a field spatially spreading in time. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 403, 94-99.	2.6	9
32	Dynamic-symmetry-breaking breathing and spreading transitions in ferromagnetic film irradiated by spherical electromagnetic wave. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 354, 349-354.	2.3	12
33	Random field Ising model swept by propagating magnetic field wave: Athermal nonequilibrium phasediagram. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 334, 11-15.	2.3	6
34	Title is missing!. <i>Acta Physica Polonica B</i> , 2012, 43, 2041.	0.8	1
35	Title is missing!. <i>Acta Physica Polonica B</i> , 2012, 43, 1805.	0.8	4
36	Monte Carlo study of dynamic phase transition in Ising metamagnet driven by oscillating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 2872-2875.	2.3	14

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37	Non-equilibrium phase transition in the kinetic Ising model driven by a propagating magnetic field wave. <i>Physica Scripta</i> , 2011, 84, 035009.	2.5	9
38	Pauli Spin Paramagnetism and Electronic Specific Heat in Generalised d -Dimensions. <i>Communications in Theoretical Physics</i> , 2011, 55, 901-903.	2.5	9
39	Form Invariant Sommerfeld Electrical Conductivity in Generalised d Dimensions. <i>Communications in Theoretical Physics</i> , 2011, 56, 943-944.	2.5	2
40	Evidence of Invariance of Time Scale at Critical Point in Ising Meanfield Equilibrium Equation of State. <i>Communications in Theoretical Physics</i> , 2011, 55, 1109-1112.	2.5	0
41	Noninteracting fermions in infinite dimensions. <i>European Journal of Physics</i> , 2010, 31, L89-L91.	0.6	4
42	CRITICAL SLOWING DOWN ALONG THE DYNAMIC PHASE BOUNDARY IN ISING MEANFIELD DYNAMICS. <i>International Journal of Modern Physics C</i> , 2010, 21, 481-487.	1.7	3
43	Nonequilibrium magnetization reversal by periodic impulsive fields in Ising mean-field dynamics. <i>Physica Scripta</i> , 2010, 82, 065703.	2.5	5
44	G-6-PD level and surface nanoscopy: a novel approach in ergonomic stress management of female labours in Bengal suburbs performing manual material handling. <i>Journal of Human Ergology</i> , 2009, 38, 51-65.	0.1	1
45	NONEQUILIBRIUM MULTICRITICAL BEHAVIOR IN ANISOTROPIC HEISENBERG FERROMAGNET DRIVEN BY OSCILLATING MAGNETIC FIELD. <i>International Journal of Modern Physics C</i> , 2006, 17, 1107-1130.	1.7	5
46	NONEQUILIBRIUM PHASE TRANSITIONS IN MODEL FERROMAGNETS: A REVIEW. <i>International Journal of Modern Physics C</i> , 2005, 16, 1631-1670.	1.7	82
47	Multiple dynamic transitions in an anisotropic Heisenberg ferromagnet driven by polarized magnetic field. <i>Physical Review E</i> , 2004, 69, 027105.	2.1	49
48	AXIAL AND OFF-AXIAL DYNAMIC TRANSITIONS IN UNIAXIALLY ANISOTROPIC HEISENBERG FERROMAGNET: A COMPARISON. <i>International Journal of Modern Physics C</i> , 2003, 14, 49-59.	1.7	13
49	MODELING AND COMPUTER SIMULATION OF AN INSURANCE POLICY: A SEARCH FOR MAXIMUM PROFIT. <i>International Journal of Modern Physics C</i> , 2003, 14, 1041-1046.	1.7	3
50	OFF-AXIAL DYNAMIC SYMMETRY BREAKING IN UNIAXIALLY ANISOTROPIC HEISENBERG FERROMAGNET. <i>International Journal of Modern Physics C</i> , 2001, 12, 709-716.	1.7	8
51	Transverse ordering of an antiferromagnet in a field with oblique angle to the easy axis. <i>Physical Review B</i> , 2000, 61, 464-469.	3.2	5
52	Inequivalence of dynamical ensembles in a generalized driven diffusive lattice gas. <i>Physical Review E</i> , 2000, 61, 1139-1143.	2.1	3
53	Nonequilibrium phase transition in the kinetic Ising model: Existence of a tricritical point and stochastic resonance. <i>Physical Review E</i> , 1999, 59, 218-221.	2.1	80
54	Dynamic transitions and hysteresis. <i>Reviews of Modern Physics</i> , 1999, 71, 847-859.	45.6	409

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55	Zero-temperature dynamic transition in the random field Ising model: a Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 252, 151-158.	2.6	7
56	Nucleation and hysteresis in Ising model: classical theory versus computer simulation. <i>European Physical Journal B</i> , 1998, 5, 571-575.	1.5	52
57	Specific heat in the integer quantum Hall effect: An exact diagonalization approach. <i>Physica B: Condensed Matter</i> , 1998, 252, 91-95.	2.7	6
58	Comparison of mean-field and Monte Carlo approaches to dynamic hysteresis in Ising ferromagnets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 253, 199-204.	2.6	19
59	Nonequilibrium phase transition in the kinetic Ising model: Dynamical symmetry breaking by randomly varying magnetic field. <i>Physical Review E</i> , 1998, 58, 174-178.	2.1	26
60	Nonequilibrium phase transition in the kinetic Ising model: Is the transition point the maximum lossy point?. <i>Physical Review E</i> , 1998, 58, 179-186.	2.1	90
61	Effects of Boundary Conditions on the Critical Spanning Probability. <i>International Journal of Modern Physics C</i> , 1998, 09, 643-647.	1.7	24
62	Dynamic response of an Ising system to a pulsed field. <i>Physical Review E</i> , 1997, 55, 2392-2396.	2.1	17
63	Nonequilibrium phase transition in the kinetic Ising model: Divergences of fluctuations and responses near the transition point. <i>Physical Review E</i> , 1997, 56, 1234-1237.	2.1	56
64	Nonequilibrium phase transition in the kinetic Ising model: Critical slowing down and the specific-heat singularity. <i>Physical Review E</i> , 1997, 56, 2407-2411.	2.1	82
65	Nonequilibrium-phase transition and \sim specific-heat singularity in the kinetic Ising model: a Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 235, 469-472.	2.6	11
66	Response of random dielectric composites and earthquake models to pulses: prediction possibilities. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 254-266.	2.6	18
67	Cluster statistics in dielectric breakdown. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 287-291.	2.6	3
68	Growth of breakdown susceptibility in random composites and the stick-slip model of earthquakes: Prediction of dielectric breakdown and other catastrophes. <i>Physical Review E</i> , 1996, 53, 140-147.	2.1	19
69	Response of Ising systems to oscillating and pulsed fields: Hysteresis, ac, and pulse susceptibility. <i>Physical Review B</i> , 1995, 52, 6550-6568.	3.2	200
70	Study of the Response to Pulses and Possible Prediction of Catastrophes. <i>Journal De Physique, I</i> , 1995, 5, 153-158.	1.2	3
71	Magnetic hysteresis loops as Lissajous plots of relaxationally delayed response to periodic field variation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 202, 467-481.	2.6	12
72	AC susceptibility and hysteresis in Ising magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 136, L29-L32.	2.3	5

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73	Hysteresis in Ising model in transverse field. Journal of Physics A, 1994, 27, 1533-1540.	1.6	25
74	Monte Carlo study of hysteretic response and relaxation in Ising models. Physica A: Statistical Mechanics and Its Applications, 1993, 192, 471-485.	2.6	34
75	Monte Carlo study of hysteretic response for the two dimensional Ising system: scaling behavior. Physica A: Statistical Mechanics and Its Applications, 1992, 186, 231-236.	2.6	13