Muktish Acharyya

List of Publications by Year
in descending order

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75 papers	1,587 citations	471509 17 h-index	302126 39 g-index
77 all docs	77 docs citations	77 times ranked	470 citing authors

#	Article	IF	Citations
1	Dynamic transitions and hysteresis. Reviews of Modern Physics, 1999, 71, 847-859.	45.6	409
2	Response of Ising systems to oscillating and pulsed fields: Hysteresis, ac, and pulse susceptibility. Physical Review B, 1995, 52, 6550-6568.	3.2	200
3	Nonequilibrium phase transition in the kinetic Ising model: Is the transition point the maximum lossy point?. Physical Review E, 1998, 58, 179-186.	2.1	90
4	Nonequilibrium phase transition in the kinetic Ising model: Critical slowing down and the specific-heat singularity. Physical Review E, 1997, 56, 2407-2411.	2.1	82
5	NONEQUILIBRIUM PHASE TRANSITIONS IN MODEL FERROMAGNETS: A REVIEW. International Journal of Modern Physics C, 2005, 16, 1631-1670.	1.7	82
6	Nonequilibrium phase transition in the kinetic Ising model: Existence of a tricritical point and stochastic resonance. Physical Review E, 1999, 59, 218-221.	2.1	80
7	Nonequilibrium phase transition in the kinetic Ising model: Divergences of fluctuations and responses near the transition point. Physical Review E, 1997, 56, 1234-1237.	2.1	56
8	Nucleation and hysteresis in Ising model: classical theory versus computer simulation. European Physical Journal B, 1998, 5, 571-575.	1.5	52
9	Multiple dynamic transitions in an anisotropic Heisenberg ferromagnet driven by polarized magnetic field. Physical Review E, 2004, 69, 027105.	2.1	49
10	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
11	Nonequilibrium phase transition in the kinetic Ising model: Dynamical symmetry breaking by randomly varying magnetic field. Physical Review E, 1998, 58, 174-178.	2.1	26
12	Hysteresis in Ising model in transverse field. Journal of Physics A, 1994, 27, 1533-1540.	1.6	25
13	Effects of Boundary Conditions on the Critical Spanning Probability. International Journal of Modern Physics C, 1998, 09, 643-647.	1.7	24
14	Growth of breakdown susceptibility in random composites and the stick-slip model of earthquakes: Prediction of dielectric breakdown and other catastrophes. Physical Review E, 1996, 53, 140-147.	2.1	19
15	Comparison of mean-field and Monte Carlo approaches to dynamic hysteresis in Ising ferromagnets. Physica A: Statistical Mechanics and Its Applications, 1998, 253, 199-204.	2.6	19
16	Response of random dielectric composites and earthquake models to pulses: prediction possibilities. Physica A: Statistical Mechanics and Its Applications, 1996, 224, 254-266.	2.6	18
17	Dynamic response of an Ising system to a pulsed field. Physical Review E, 1997, 55, 2392-2396.	2.1	17
18	Blume-Capel ferromagnet driven by propagating and standing magnetic field wave: Dynamical modes and nonequilibrium phase transition. Journal of Magnetism and Magnetic Materials, 2017, 426, 53-59.	2.3	16

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19	Monte Carlo study of dynamic phase transition in Ising metamagnet driven by oscillating magnetic field. Journal of Magnetism and Magnetic Materials, 2011, 323, 2872-2875.	2.3	14
20	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
21	AXIAL AND OFF-AXIAL DYNAMIC TRANSITIONS IN UNIAXIALLY ANISOTROPIC HEISENBERG FERROMAGNET: A COMPARISON. International Journal of Modern Physics C, 2003, 14, 49-59.	1.7	13
22	Magnetic hysteresis loops as Lissajous plots of relaxationally delayed response to periodic field variation. Physica A: Statistical Mechanics and Its Applications, 1994, 202, 467-481.	2.6	12
23	Dynamic-symmetry-breaking breathing and spreading transitions in ferromagnetic film irradiated by spherical electromagnetic wave. Journal of Magnetism and Magnetic Materials, 2014, 354, 349-354.	2.3	12
24	Nonequilibrium-phase transition and â€˜specific-heatâ€™ singularity in the kinetic Ising model: a Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 1997, 235, 469-472.	2.6	11
25	Ising metamagnet driven by propagating magnetic field wave: Nonequilibrium phases and transitions. Journal of Magnetism and Magnetic Materials, 2015, 382, 206-210.	2.3	10
26	Non-equilibrium phase transition in the kinetic Ising model driven by a propagating magnetic field wave. Physica Scripta, 2011, 84, 035009.	2.5	9
27	Pauli Spin Paramagnetism and Electronic Specific Heat in Generalised d -Dimensions. Communications in Theoretical Physics, 2011, 55, 901-903.	2.5	9
28	Polarised Electromagnetic Wave Propagation Through the Ferromagnet: Phase Boundary of Dynamic Phase Transition. Acta Physica Polonica B, 2014, 45, 1027.	0.8	9
29	Nucleation in Ising ferromagnet by a field spatially spreading in time. Physica A: Statistical Mechanics and Its Applications, 2014, 403, 94-99.	2.6	9
30	Role of anisotropy to the compensation in the Blume-Capel trilayered ferrimagnet. Superlattices and Microstructures, 2020, 147, 106648.	3.1	9
31	OFF-AXIAL DYNAMIC SYMMETRY BREAKING IN UNIAXIALLY ANISOTROPIC HEISENBERG FERROMAGNET. International Journal of Modern Physics C, 2001, 12, 709-716.	1.7	8
32	Standing magnetic wave on Ising ferromagnet: Nonequilibrium phase transition. Journal of Magnetism and Magnetic Materials, 2016, 420, 290-295.	2.3	8
33	Compensation in the spin-1/2 site diluted Ising ferrimagnet: a Monte Carlo study. Phase Transitions, 2020, 93, 62-73.	1.3	8
34	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
35	Zero-temperature dynamic transition in the random field Ising model: a Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 1998, 252, 151-158.	2.6	7
36	Reversal of Magnetisation in Ising Ferromagnet by the Field Having Gradient. Communications in Theoretical Physics, 2016, 66, 563-570.	2.5	7

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37	Specific heat in the integer quantum Hall effect: An exact diagonalization approach. Physica B: Condensed Matter, 1998, 252, 91-95.	2.7	6
38	Random field Ising model swept by propagating magnetic field wave: Athermal nonequilibrium phasediagram. Journal of Magnetism and Magnetic Materials, 2013, 334, 11-15.	2.3	6
39	Magnetisation reversal in Ising ferromagnet by thermal and field gradients. Heliyon, 2018, 4, e00892.	3.2	6
40	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
41	AC susceptibility and hysteresis in Ising magnets. Journal of Magnetism and Magnetic Materials, 1994, 136, L29-L32.	2.3	5
42	Transverse ordering of an antiferromagnet in a field with oblique angle to the easy axis. Physical Review B, 2000, 61, 464-469.	3.2	5
43	NONEQUILIBRIUM MULTICRITICAL BEHAVIOR IN ANISOTROPIC HEISENBERG FERROMAGNET DRIVEN BY OSCILLATING MAGNETIC FIELD. International Journal of Modern Physics C, 2006, 17, 1107-1130.	1.7	5
44	Nonequilibrium magnetization reversal by periodic impulsive fields in Ising mean-field dynamics. Physica Scripta, 2010, 82, 065703.	2.5	5
45	Metastability in graded and step like variation of field and anisotropy of the Blumeâ€“Capel ferromagnet. Physica A: Statistical Mechanics and Its Applications, 2021, 568, 125747.	2.6	5
46	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
47	Noninteracting fermions in infinite dimensions. European Journal of Physics, 2010, 31, L89-L91.	0.6	4
48	Title is missing!. Acta Physica Polonica B, 2012, 43, 1805.	0.8	4
49	Spatiotemporal dynamics of the Kuramoto-Sakaguchi model with time-dependent connectivity. Physical Review E, 2016, 94, 022213.	2.1	4
50	Nonequilibrium Phase Transition in Spin- S Ising Ferromagnet Driven by Propagating and Standing Magnetic Field Wave. Communications in Theoretical Physics, 2017, 68, 600.	2.5	4
51	Anisotropy-driven reversal of magnetisation in Blumeâ€“Capel ferromagnet: a Monte Carlo study. European Physical Journal B, 2021, 94, 1.	1.5	4
52	Metastable behavior of the spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math>Ising and Blume-Capel ferromagnets: A Monte Carlo study. Physical Review E, 2021, 104, 014107.	2.1	4
53	Cluster statistics in dielectric breakdown. Physica A: Statistical Mechanics and Its Applications, 1996, 224, 287-291.	2.6	3
54	Inequivalence of dynamical ensembles in a generalized driven diffusive lattice gas. Physical Review E, 2000, 61, 1139-1143.	2.1	3

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55	MODELING AND COMPUTER SIMULATION OF AN INSURANCE POLICY: A SEARCH FOR MAXIMUM PROFIT. International Journal of Modern Physics C, 2003, 14, 1041-1046.	1.7	3
56	CRITICAL SLOWING DOWN ALONG THE DYNAMIC PHASE BOUNDARY IN ISING MEANFIELD DYNAMICS. International Journal of Modern Physics C, 2010, 21, 481-487.	1.7	3
57	Study of the Response to Pulses and Possible Prediction of Catastrophes. Journal De Physique, I, 1995, 5, 153-158.	1.2	3
58	Form Invariant Sommerfeld Electrical Conductivity in Generalised d Dimensions. Communications in Theoretical Physics, 2011, 56, 943-944.	2.5	2
59	Standing spin wave mode in RFIM: Patterns and athermal nonequilibrium phases. Journal of Magnetism and Magnetic Materials, 2015, 394, 410-415.	2.3	2
60	Transient behavior towards the stable limit cycle in the Selâ€™kov model of Glycolysis: A physiological disorder. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125684.	2.6	2
61	Metabolic signatures of oxidative stress and their relationship with erythrocyte membrane surface roughness among workers of manual materials handling (MMH). North American Journal of Medical Sciences, 2015, 7, 558.	1.7	2
62	Model and Statistical Analysis of the Motion of a Tired Random Walker in Continuum. Journal of Modern Physics, 2015, 06, 2021-2034.	0.6	2
63	Title is missing!. Acta Physica Polonica B, 2012, 43, 2041.	0.8	1
64	Patterns, dynamics and phase transitions in Ising ferromagnet driven by propagating magnetic field wave. Journal of Physics: Conference Series, 2015, 638, 012008.	0.4	1
65	Driven spin wave modes in XY ferromagnet: non-equilibrium phase transition. Phase Transitions, 2018, 91, 793-810.	1.3	1
66	Competitive metastable behaviours of surface and bulk in Ising ferromagnet. European Physical Journal B, 2021, 94, 1.	1.5	1
67	Transient phases in the Vicsek model of flocking. Journal of Physics Through Computation, 2018, 1, 17-30.	0.0	1
68	Modeling the spread of an epidemic in presence of vaccination using cellular automata. International Journal of Modern Physics C, 2022, 33, .	1.7	1
69	G-6-PD level and surface nanoscopy: a novel approach in ergonomic stress management of female labours in Bengal suburbs performing manual material handling. Journal of Human Ergology, 2009, 38, 51-65.	0.1	1
70	Rodlike Heisenberg nanomagnet driven by propagating magnetic field: Nonequilibrium phase transition. International Journal of Modern Physics C, 2022, 33, .	1.7	1
71	Evidence of Invariance of Time Scale at Critical Point in Ising Meanfield Equilibrium Equation of State. Communications in Theoretical Physics, 2011, 55, 1109-1112.	2.5	0
72	Spin flip statistics and spin wave interference patterns in Ising ferromagnetic films: A Monte Carlo study. Heliyon, 2017, 3, e00357.	3.2	0

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73	Exit Probability and First Passage Time of a Lazy Pearson Walker: Scaling Behaviour. Applied Mathematics, 2016, 07, 1353-1358.	0.4	0
74	Statistics of Projected Motion in One Dimension of a D-Dimensional Random Walker. Applied Mathematics, 2018, 09, 602-617.	0.4	0
75	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