

Muktish Acharyya

List of Publications by Year in descending order

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75
papers

1,587
citations

471061

17
h-index

301761

39
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77
all docs

77
docs citations

77
times ranked

470
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Dynamic transitions and hysteresis. <i>Reviews of Modern Physics</i> , 1999, 71, 847-859. | 16.4 | 409 |
| 2 | Response of Ising systems to oscillating and pulsed fields: Hysteresis, ac, and pulse susceptibility. <i>Physical Review B</i> , 1995, 52, 6550-6568. | 1.1 | 200 |
| 3 | 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. | 0.8 | 90 |
| 4 | 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. | 0.8 | 82 |
| 5 | NONEQUILIBRIUM PHASE TRANSITIONS IN MODEL FERROMAGNETS: A REVIEW. <i>International Journal of Modern Physics C</i> , 2005, 16, 1631-1670. | 0.8 | 82 |
| 6 | 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. | 0.8 | 80 |
| 7 | 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. | 0.8 | 56 |
| 8 | Nucleation and hysteresis in Ising model: classical theory versus computer simulation. <i>European Physical Journal B</i> , 1998, 5, 571-575. | 0.6 | 52 |
| 9 | Multiple dynamic transitions in an anisotropic Heisenberg ferromagnet driven by polarized magnetic field. <i>Physical Review E</i> , 2004, 69, 027105. | 0.8 | 49 |
| 10 | Monte Carlo study of hysteretic response and relaxation in Ising models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 192, 471-485. | 1.2 | 34 |
| 11 | 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. | 0.8 | 26 |
| 12 | Hysteresis in Ising model in transverse field. <i>Journal of Physics A</i> , 1994, 27, 1533-1540. | 1.6 | 25 |
| 13 | Effects of Boundary Conditions on the Critical Spanning Probability. <i>International Journal of Modern Physics C</i> , 1998, 09, 643-647. | 0.8 | 24 |
| 14 | 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. | 0.8 | 19 |
| 15 | 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. | 1.2 | 19 |
| 16 | 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. | 1.2 | 18 |
| 17 | Dynamic response of an Ising system to a pulsed field. <i>Physical Review E</i> , 1997, 55, 2392-2396. | 0.8 | 17 |
| 18 | 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. | 1.0 | 16 |

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|----|--|-----|-----------|
| 19 | 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. | 1.0 | 14 |
| 20 | Monte Carlo study of hysteretic response for the two dimensional Ising system: scaling behavior. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 186, 231-236. | 1.2 | 13 |
| 21 | 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. | 0.8 | 13 |
| 22 | 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. | 1.2 | 12 |
| 23 | 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. | 1.0 | 12 |
| 24 | Nonequilibrium-phase transition and \tilde{c} -specific-heat TM singularity in the kinetic Ising model: a Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 235, 469-472. | 1.2 | 11 |
| 25 | Ising metamagnet driven by propagating magnetic field wave: Nonequilibrium phases and transitions. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 382, 206-210. | 1.0 | 10 |
| 26 | Non-equilibrium phase transition in the kinetic Ising model driven by a propagating magnetic field wave. <i>Physica Scripta</i> , 2011, 84, 035009. | 1.2 | 9 |
| 27 | Pauli Spin Paramagnetism and Electronic Specific Heat in Generalised d -Dimensions. <i>Communications in Theoretical Physics</i> , 2011, 55, 901-903. | 1.1 | 9 |
| 28 | Polarised Electromagnetic Wave Propagation Through the Ferromagnet: Phase Boundary of Dynamic Phase Transition. <i>Acta Physica Polonica B</i> , 2014, 45, 1027. | 0.3 | 9 |
| 29 | Nucleation in Ising ferromagnet by a field spatially spreading in time. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 403, 94-99. | 1.2 | 9 |
| 30 | Role of anisotropy to the compensation in the Blume-Capel trilayered ferrimagnet. <i>Superlattices and Microstructures</i> , 2020, 147, 106648. | 1.4 | 9 |
| 31 | OFF-AXIAL DYNAMIC SYMMETRY BREAKING IN UNIAXIALLY ANISOTROPIC HEISENBERG FERROMAGNET. <i>International Journal of Modern Physics C</i> , 2001, 12, 709-716. | 0.8 | 8 |
| 32 | Standing magnetic wave on Ising ferromagnet: Nonequilibrium phase transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 420, 290-295. | 1.0 | 8 |
| 33 | Compensation in the spin-1/2 site diluted Ising ferrimagnet: a Monte Carlo study. <i>Phase Transitions</i> , 2020, 93, 62-73. | 0.6 | 8 |
| 34 | Effects of random fields on the reversal of magnetisation of Ising ferromagnet. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 551, 124583. | 1.2 | 8 |
| 35 | 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. | 1.2 | 7 |
| 36 | Reversal of Magnetisation in Ising Ferromagnet by the Field Having Gradient. <i>Communications in Theoretical Physics</i> , 2016, 66, 563-570. | 1.1 | 7 |

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|----|---|-----|-----------|
| 37 | Specific heat in the integer quantum Hall effect: An exact diagonalization approach. <i>Physica B: Condensed Matter</i> , 1998, 252, 91-95. | 1.3 | 6 |
| 38 | Random field Ising model swept by propagating magnetic field wave: Athermal nonequilibrium phase diagram. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 334, 11-15. | 1.0 | 6 |
| 39 | Magnetisation reversal in Ising ferromagnet by thermal and field gradients. <i>Heliyon</i> , 2018, 4, e00892. | 1.4 | 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. <i>AIP Conference Proceedings</i> , 2020, , . | 0.3 | 6 |
| 41 | AC susceptibility and hysteresis in Ising magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 136, L29-L32. | 1.0 | 5 |
| 42 | Transverse ordering of an antiferromagnet in a field with oblique angle to the easy axis. <i>Physical Review B</i> , 2000, 61, 464-469. | 1.1 | 5 |
| 43 | NONEQUILIBRIUM MULTICRITICAL BEHAVIOR IN ANISOTROPIC HEISENBERG FERROMAGNET DRIVEN BY OSCILLATING MAGNETIC FIELD. <i>International Journal of Modern Physics C</i> , 2006, 17, 1107-1130. | 0.8 | 5 |
| 44 | Nonequilibrium magnetization reversal by periodic impulsive fields in Ising mean-field dynamics. <i>Physica Scripta</i> , 2010, 82, 065703. | 1.2 | 5 |
| 45 | Metastability in graded and step like variation of field and anisotropy of the Blume-Capel ferromagnet. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 568, 125747. | 1.2 | 5 |
| 46 | Nonequilibrium multiple transitions in the core-shell Ising nanoparticles driven by randomly varying magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 527, 167721. | 1.0 | 5 |
| 47 | Noninteracting fermions in infinite dimensions. <i>European Journal of Physics</i> , 2010, 31, L89-L91. | 0.3 | 4 |
| 48 | Title is missing!. <i>Acta Physica Polonica B</i> , 2012, 43, 1805. | 0.3 | 4 |
| 49 | Spatiotemporal dynamics of the Kuramoto-Sakaguchi model with time-dependent connectivity. <i>Physical Review E</i> , 2016, 94, 022213. | 0.8 | 4 |
| 50 | 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. | 1.1 | 4 |
| 51 | Anisotropy-driven reversal of magnetisation in Blume-Capel ferromagnet: a Monte Carlo study. <i>European Physical Journal B</i> , 2021, 94, 1. | 0.6 | 4 |
| 52 | Metastable behavior of the spin- s Ising and Blume-Capel ferromagnets: A Monte Carlo study. <i>Physical Review E</i> , 2021, 104, 014107. | 0.8 | 4 |
| 53 | Cluster statistics in dielectric breakdown. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 287-291. | 1.2 | 3 |
| 54 | Inequivalence of dynamical ensembles in a generalized driven diffusive lattice gas. <i>Physical Review E</i> , 2000, 61, 1139-1143. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | MODELING AND COMPUTER SIMULATION OF AN INSURANCE POLICY: A SEARCH FOR MAXIMUM PROFIT. International Journal of Modern Physics C, 2003, 14, 1041-1046. | 0.8 | 3 |
| 56 | CRITICAL SLOWING DOWN ALONG THE DYNAMIC PHASE BOUNDARY IN ISING MEANFIELD DYNAMICS. International Journal of Modern Physics C, 2010, 21, 481-487. | 0.8 | 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. | 1.1 | 2 |
| 59 | Standing spin wave mode in RFIM: Patterns and athermal nonequilibrium phases. Journal of Magnetism and Magnetic Materials, 2015, 394, 410-415. | 1.0 | 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. | 1.2 | 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. | 0.3 | 2 |
| 63 | Title is missing!. Acta Physica Polonica B, 2012, 43, 2041. | 0.3 | 1 |
| 64 | Patterns, dynamics and phase transitions in Ising ferromagnet driven by propagating magnetic field wave. Journal of Physics: Conference Series, 2015, 638, 012008. | 0.3 | 1 |
| 65 | Driven spin wave modes in XY ferromagnet: non-equilibrium phase transition. Phase Transitions, 2018, 91, 793-810. | 0.6 | 1 |
| 66 | Competitive metastable behaviours of surface and bulk in Ising ferromagnet. European Physical Journal B, 2021, 94, 1. | 0.6 | 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, . | 0.8 | 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, . | 0.8 | 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. | 1.1 | 0 |
| 72 | Spin flip statistics and spin wave interference patterns in Ising ferromagnetic films: A Monte Carlo study. Heliyon, 2017, 3, e00357. | 1.4 | 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. | 0.1 | 0 |
| 74 | Statistics of Projected Motion in One Dimension of a D-Dimensional Random Walker. Applied Mathematics, 2018, 09, 602-617. | 0.1 | 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. | 0.1 | 0 |