

Hassan Chamati

List of Publications by Year in descending order

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papers

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78
docs citations

78
times ranked

460
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of a qubit state by a soliton propagating through a Heisenberg spin chain. <i>Physical Review E</i> , 2022, 105, 034207.	2.1	0
2	Silver nanoparticles synthesis and their effect on the SOPC lipid structure. <i>Journal of Physics: Conference Series</i> , 2022, 2240, 012019.	0.4	1
3	Dynamic Simulation of the Energy Spectrum of Phonons in the Magnetic BCC Iron. <i>Comptes Rendus De L'Academie Bulgare Des Sciences</i> , 2022, 75, 197-206.	0.2	1
4	Green Synthesis of Gold Nanoparticles: An Eco-Friendly Approach. <i>Chemistry</i> , 2022, 4, 345-369.	2.2	46
5	Influence of melatonin on the structural and thermal properties of SOPC lipid membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 647, 129081.	4.7	1
6	Influence of sucrose on the phase behaviour of phospholipid model systems. <i>Journal of Physics: Conference Series</i> , 2021, 1762, 012012.	0.4	0
7	Single-photon generation of entangled triplet state in an atomic spin dimer. <i>Journal of Physics: Conference Series</i> , 2021, 1762, 012015.	0.4	0
8	Interaction of solitons with a qubit in an anisotropic Heisenberg spin chain with first and second-neighbor interactions. <i>Journal of Physics: Conference Series</i> , 2021, 1762, 012018.	0.4	1
9	An Exchange Mechanism for the Magnetic Behavior of Er ³⁺ Complexes. <i>Molecules</i> , 2021, 26, 4922.	3.8	3
10	Progress and Perspectives in Functional Materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100548.	1.8	0
11	Molecular magnetism in the multi-configurational self-consistent field method. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 075803.	1.8	4
12	Origin of the magnetic exchange in insulators: Localized vs. delocalized electrons. <i>Journal of Physics: Conference Series</i> , 2021, 1762, 012019.	0.4	2
13	Physical properties of SOPC lipid membranes containing cholesterol by molecular dynamics simulation. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2021, , 1-30.	0.6	3
14	Dynamics of a periodic XY chain coupled to a photon mode. <i>European Physical Journal B</i> , 2020, 93, 1.	1.5	2
15	Influence of hydrophobic Au nanoparticles on SOPC lipid model systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125090.	4.7	7
16	Magnetization steps in the molecular magnet Ni^{2+} revealed by complex exchange bridges. <i>Physical Review B</i> , 2020, 101, .	4.2	19
17	Study of SOPC with embedded pristine and amide-functionalized single wall carbon nanotubes by DSC and FTIR spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125261.	4.7	3
18	Physico-chemical characterizations of lipid membranes in presence of cholesterol. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2020, 31, 1-42.	0.6	5

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19	Physics and Applications of Advanced and Multifunctional Materials. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900267.	1.8	0
20	Magnetic excitations in molecular magnets with complex bridges: the tetrahedral molecule Ni ₄ Mo ₁₂ . European Physical Journal B, 2019, 92, 1.	1.5	8
21	Differential Scanning Calorimetric Study of the Effect of Cholesterol on the Thermotropic Phase Behavior of the Phospholipid 1-Stearyl-2-Oleoyl-3-Glycero-3-Phosphocholine. Journal of Surfactants and Detergents, 2019, 22, 1229-1235.		4
22	Gel-liquid crystal phase transition in dry and hydrated SOPC phospholipid studied by differential scanning calorimetry. Phase Transitions, 2019, 92, 323-333.	1.3	10
23	Magnetic exchange in spin clusters. AIP Conference Proceedings, 2019, , .	0.4	4
24	Energy spectra of a spin- $\frac{1}{2}$ XY spin molecule interacting with a single mode field cavity. Journal of Physics: Conference Series, 2019, 1186, 012021.	0.4	2
25	Ferrimagnetism in a system of two antiferromagnetically coupled Heisenberg models. Journal of Physics: Conference Series, 2019, 1186, 012002.	0.4	0
26	Ferrimagnetism in a two-sublattice bilinearly coupled Heisenberg model. AIP Conference Proceedings, 2019, , .	0.4	2
27	Linear and ring polymers in confined geometries. European Physical Journal: Special Topics, 2017, 226, 651-665.	2.6	6
28	Spin multipole moments as collective quantum phenomena. Journal of Physics: Conference Series, 2017, 794, 012026.	0.4	0
29	Investigation of ring polymers in confined geometries. Journal of Physics: Conference Series, 2017, 794, 012002.	0.4	1
30	19th International School on Condensed Matter Physics (ISCMP): Advances in Nanostructured Condensed Matter: Research and Innovations. Journal of Physics: Conference Series, 2017, 794, 011001.	0.4	0
31	Energy spectra of a spin- $\frac{1}{2}$ XY spin molecule interacting with a single mode field cavity: Numerical study. Journal of Physics: Conference Series, 2016, 764, 012017.	0.4	2
32	Interaction of a single mode field cavity with the 1D XY model: Energy spectrum. Journal of Physics: Conference Series, 2016, 682, 012032.	0.4	3
33	Peculiarities in the Study of Preformed DSPC Lipid Vesicles by Coarse Grain Molecular Dynamics. Advances in Biomembranes and Lipid Self-Assembly, 2016, 23, 169-185.	0.6	0
34	Nematic order in a simple-cubic lattice-spin model with full-ranged dipolar interactions. Physical Review E, 2016, 93, 052147.	2.1	5
35	INERA Conference 2015: Light in Nanoscience and Nanotechnology (LNN 2015). Journal of Physics: Conference Series, 2016, 682, 011001.	0.4	0
36	Classical lattice spin models involving singular interactions isotropic in spin space. Physical Review E, 2015, 92, 012135.	2.1	0

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37	Nematic order by thermal disorder in a three-dimensional lattice spin model with dipolarlike interactions. <i>Physical Review E</i> , 2014, 90, 022506.	2.1	4
38	Dynamic stability of Fe under high pressure. <i>Journal of Physics: Conference Series</i> , 2014, 558, 012013.	0.4	1
39	Theory of Phase Transitions. <i>Behavior Research Methods</i> , 2013, 17, 237-285.	4.0	15
40	Crystallization of nickel nanoclusters by molecular dynamics. <i>Journal of Physics: Conference Series</i> , 2012, 398, 012042.	0.4	3
41	Quantum critical scaling and the Gross-Neveu model in 2+1 dimensions. <i>Europhysics Letters</i> , 2011, 95, 40005.	2.0	4
42	Interaction anisotropy and random impurities effects on the critical behaviour of ferromagnets. <i>Journal of Physics: Conference Series</i> , 2010, 253, 012011.	0.4	2
43	Dynamic critical behavior of model A in films: Zero-mode boundary conditions and expansion near four dimensions. <i>Physical Review B</i> , 2009, 79, .	3.2	23
44	Diffusion of a vacancy on Fe(100): A molecular-dynamics study. <i>Computational Materials Science</i> , 2009, 44, 1366-1370.	3.0	15
45	Topological transitions in two-dimensional lattice models of liquid crystals. <i>Physical Review E</i> , 2008, 77, 051704.	2.1	7
46	Finite-size effects in the spherical model of finite thickness. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 375002.	2.1	13
47	Critical dynamics in confined systems with quenched random impurities. <i>Physical Review B</i> , 2008, 77, .	3.2	2
48	First-order phase transitions in classical lattice gas spin models. <i>Physical Review B</i> , 2007, 75, .	3.2	12
49	Generalized Mittag-Leffler functions in the theory of finite-size scaling for systems with strong anisotropy and/or long-range interaction. <i>Journal of Physics A</i> , 2006, 39, 469-478.	1.6	16
50	On the application of nonextensive statistical mechanics to the black-body radiation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 360, 297-303.	2.6	12
51	Monte Carlo study of 2D generalized XY-models. <i>European Physical Journal B</i> , 2006, 50, 541-548.	1.5	20
52	Phase transitions in three dimensional generalized xy models. <i>European Physical Journal B</i> , 2006, 54, 249-254.	1.5	4
53	Embedded-atom potential for Fe and its application to self-diffusion on Fe(100). <i>Surface Science</i> , 2006, 600, 1793-1803.	1.9	168
54	Berezinskii-Kosterlitz-Thouless transition in two-dimensional lattice gas models. <i>Physical Review B</i> , 2006, 73, .	3.2	11

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55	Three-dimensional generalized xy models: A Monte Carlo study. <i>Europhysics Letters</i> , 2005, 72, 62-68.	2.0	10
56	Classical Heisenberg lattice-gas model: Thermodynamics and phase diagrams. <i>Physical Review B</i> , 2005, 72, .	3.2	7
57	Two-dimensional lattice gas models with extremely anisotropic spin interactions. <i>Physical Review B</i> , 2005, 72, .	3.2	7
58	Immersed nano-sized Al dispersoids in an Al matrix: effects on the structural and mechanical properties by molecular dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 5031-5042.	1.8	3
59	Critical Casimir forces for $O(n)$ systems with long-range interaction in the spherical limit. <i>Physical Review E</i> , 2004, 70, 066106.	2.1	12
60	Second-moment interatomic potential for gold and its application to molecular-dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 8399-8407.	1.8	22
61	Second-moment interatomic potential for Al, Ni and Ni-Al alloys, and molecular dynamics application. <i>Computational Materials Science</i> , 2003, 27, 191-198.	3.0	36
62	CRITICAL BEHAVIOR OF SYSTEMS WITH LONG-RANGE INTERACTION IN RESTRICTED GEOMETRY. <i>Modern Physics Letters B</i> , 2003, 17, 1187-1205.	1.9	13
63	Finite-size scaling in disordered systems. <i>Physical Review E</i> , 2002, 65, 026129.	2.1	11
64	Renormalization group treatment of the scaling properties of finite systems with subleading long-range interaction. <i>European Physical Journal B</i> , 2002, 26, 89-99.	1.5	2
65	Title is missing!. <i>European Physical Journal B</i> , 2002, 26, 89-99.	1.5	6
66	Finite-size scaling in systems with long-range interaction. <i>European Physical Journal B</i> , 2001, 24, 241-249.	1.5	2
67	Scaling behavior for finite $O(n)$ systems with long-range interaction. <i>Physical Review E</i> , 2001, 63, 026103.	2.1	7
68	Casimir amplitudes in a quantum spherical model with long-range interaction. <i>European Physical Journal B</i> , 2000, 14, 307-316.	1.5	14
69	Exact results for some Madelung-type constants in the finite-size scaling theory. <i>Journal of Physics A</i> , 2000, 33, L167-L170.	1.6	11
70	Finite-size scaling investigations in the quantum φ^4 -model with long-range interaction. <i>Journal of Physics A</i> , 2000, 33, 873-890.	1.6	13
71	Theory of a spherical-quantum-rotors model: Low-temperature regime and finite-size scaling. <i>Physical Review B</i> , 1998, 57, 5798-5811.	3.2	26
72	Finite-size shift of the critical temperature in the spherical model. <i>Journal of Statistical Physics</i> , 1996, 83, 1211-1218.	1.2	7

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73	Symmetry breaking and long-range order: Ann-component model of a structural phase transition. Physical Review B, 1994, 49, 4311-4314.	3.2	2
74	Tricritical Behaviour in a Simple Model of an Itinerant Antiferromagnet. Physica Status Solidi (B): Basic Research, 1994, 182, 189-199.	1.5	0
75	T = 0 finite-size scaling for a quantum system with long-range interaction. Physica A: Statistical Mechanics and Its Applications, 1994, 212, 357-368.	2.6	12
76	Long-range order of an exactly solvable model of a quantum antiferromagnet. Physica Status Solidi (B): Basic Research, 1992, 174, 505-512.	1.5	3
77	Magnetostructural Dependencies in 3 <i>d</i> ² Systems: The Trigonal Bipyramidal V ³⁺ Complex. Physica Status Solidi (B): Basic Research, 0, , 2100645.	1.5	5