

Saeed Mahdavifar

List of Publications by Year in descending order

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docs citations

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times ranked

374
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced effects of the Dzyaloshinskii-Moriya interaction on the thermal entanglement in spin-1/2 Heisenberg chains. Physical Review A, 2014, 89, .	1.0	28
2	Magnetic quantum correlations in the one-dimensional transverse-field XZ model. Physical Review A, 2017, 96, .	1.0	27
3	Anisotropy investigation of cobalt ferrite nanoparticles embedded in polyvinyl alcohol matrix: A Monte Carlo study. Polymer, 2014, 55, 3713-3719.	1.8	25
4	Magnetic entanglement in spin-1/2 XY chains. Physica A: Statistical Mechanics and Its Applications, 2016, 445, 256-263.	1.2	25
5	Metamagnetic Phase Transition in the 1D Ising Plus Dzyaloshinskii-Moriya Model. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1369-1375.	0.8	20
6	1D frustrated ferromagnetic model with added Dzyaloshinskii-Moriya interaction. European Physical Journal B, 2012, 85, 1.	0.6	18
7	Quantum correlations in the 1D spin-1/2 Ising model with added Dzyaloshinskii-Moriya interaction. Physica A: Statistical Mechanics and Its Applications, 2014, 416, 321-330.	1.2	18
8	Dynamical quantum correlations after sudden quenches. Physical Review A, 2018, 98, .	1.0	18
9	Alternating Heisenberg Spin-1/2 Chains in a Transverse Magnetic Field. Journal of the Physical Society of Japan, 2008, 77, 024710.	0.7	17
10	Scaling behaviour of the energy gap of spin-1/2 AF-Heisenberg chains in both uniform and staggered fields. European Physical Journal B, 2007, 55, 371-376.	0.6	15
11	Numerical study of the frustrated ferromagnetic spin- $\frac{1}{2}$ chain. Journal of Physics Condensed Matter, 2008, 20, 335230.	0.7	15
12	Signature of the Luttinger liquid phase in alternating Heisenberg spin- $\frac{1}{2}$ chains: Analytical and numerical approaches. Physical Review B, 2008, 78, .	1.1	15
13	Numerical study of the one-dimensional quantum compass model. European Physical Journal B, 2010, 77, 77-82.	0.6	15
14	Entanglement Study of the 1D Ising Model with Added Dzyaloshinskii-Moriya Interaction. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1159-1167.	0.8	15
15	Synthesis, characterization and Monte Carlo simulation of CoFe ₂ O ₄ /Polyvinylpyrrolidone nanocomposites: The coercivity investigation. Journal of Magnetism and Magnetic Materials, 2015, 393, 1-7.	1.0	15
16	Ising in a transverse field with added transverse Dzyaloshinskii-Moriya interaction. Journal of Magnetism and Magnetic Materials, 2019, 476, 580-588.	1.0	15
17	Gap exponent of the XXZ model in a transverse field. Physical Review B, 2006, 73, .	1.1	14
18	Magnetic phase diagram of the dimerized spin S = 1/2 ladder. European Physical Journal B, 2009, 68, 59-66.	0.6	13

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19	Non-Markovian dynamics in the extended cluster spin-1/2 chain. Physical Review A, 2017, 95, .	1.0	13
20	Spin ladder with anisotropic ferromagnetic legs in a transverse magnetic field. Journal of Physics Condensed Matter, 2007, 19, 076201.	0.7	11
21	Quantum chaos in the Heisenberg spin chain: The effect of Dzyaloshinskii-Moriya interaction. Chaos, 2016, 26, 103106.	1.0	11
22	Ineffectiveness of the Dzyaloshinskii-Moriya interaction in the dynamical quantum phase transition in the ITF model. Journal of Physics Condensed Matter, 2018, 30, 42LT01.	0.7	11
23	Quantum corrections of the Dzyaloshinskii-Moriya interaction on the spin- $\frac{1}{2}$ AF-Heisenberg chain in an uniform magnetic field. European Physical Journal B, 2008, 62, 215-220.	0.6	10
24	The quantum compass chain in a transverse magnetic field. European Physical Journal B, 2011, 83, 181-189.	0.6	10
25	Quantum correlations in anisotropic XY-spin chains in a transverse magnetic field. Phase Transitions, 2018, 91, 1256-1267.	0.6	10
26	Effects of a space modulation on the behavior of a 1D alternating Heisenberg spin-1/2 model. Journal of Physics Condensed Matter, 2011, 23, 246002.	0.7	8
27	Thermal Classical and Quantum Correlations in Spin-1/2 XX Chains with the Dzyaloshinskii-Moriya Interaction. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1807-1813.	0.8	8
28	Quantum correlations in the extended cluster spin-1/2 XXZ chain. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 1128-1139.	1.2	8
29	Probing the Possibilities of Ergodicity in the 1D Spin-1/2 XY Chain with Quench Dynamics. Scientific Reports, 2020, 10, 4407.	1.6	8
30	Concurrence and Quantum Discord in the Eigenstates of Chaotic and Integrable Spin Chains. Annalen Der Physik, 2020, 532, 1900515.	0.9	8
31	Dynamics of coherence: Maximal quantum Fisher information versus Loschmidt echo. Physical Review B, 2020, 102, .	1.1	8
32	One-Dimensional Quantum Compass Model in an Out-plane Magnetic Field. Journal of Superconductivity and Novel Magnetism, 2011, 24, 769-773.	0.8	7
33	Publisher's Note: Induced effects of the Dzyaloshinskii-Moriya interaction on the thermal entanglement in spin-1/2 Heisenberg chains [Phys. Rev. A89, 042306 (2014)]. Physical Review A, 2014, 89, .	1.0	7
34	Entanglement in a two-spin system with long-range interactions. Chinese Physics B, 2016, 25, 087501.	0.7	7
35	Identification of Unentangled-Entangled Border in the Luttinger Liquid Phase. Crystals, 2019, 9, 105.	1.0	7
36	Concurrence and entanglement entropy in a dimerised spin-1/2 two-leg ladder. European Physical Journal B, 2011, 83, 329-335.	0.6	6

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37	Fidelity and entanglement entropy in the one-dimensional transverse-field quantum compass model. <i>Physica Scripta</i> , 2013, 88, 015003.	1.2	6
38	Synthesis and Characterization of Cubic Omega-3-coated Cobalt Ferrite Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1781-1785.	0.8	6
39	The magnetic properties of spin-1/2 two-leg ladders with dimerized legs and trimerized modulation of rung exchange. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 474, 107-114.	1.2	6
40	Extended cluster spin-1/2 XXZ chain. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 466, 21-29.	1.2	6
41	Experimental and Theoretical Investigations of Magnetic Properties of Co Ferrite/Polyvinyl Alcohol Nanocomposites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 217-223.	0.8	6
42	Influence of weak frustration on quench dynamics of 1D spin-1/2 ANNNI model. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 166078.	1.0	6
43	Quantum correlations in the spin-1/2 Heisenberg XXZ chain with modulated Dzyaloshinskii-Moriya interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 518, 167411.	1.0	6
44	Heat capacity of Schottky type in low-dimensional spin systems. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 215213.	0.7	5
45	Magnetic properties of the spin $S = 1/2$ Heisenberg chain with hexamer modulation of exchange. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 116002.	0.7	5
46	Topological phase transition in the extended cluster compass ladder. <i>Progress of Theoretical and Experimental Physics</i> , 2014, 2014, 43102-0.	1.8	5
47	Thermodynamics of the Spin-1/2 Two-Leg Ladder Compound (C ₅ H ₁₂ N) ₂ CuBr ₄ . <i>Journal of Low Temperature Physics</i> , 2014, 177, 203-216.	0.6	5
48	Specific Heat of the 1D Spin-1/2 Ising Model with Added Dzyaloshinskii-Moriya Interaction. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 595-600.	0.8	5
49	The 1D Spin-1/2 XXZ Model in Transverse Uniform and Staggered Magnetic Fields. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1265-1271.	0.8	5
50	Quantum Correlations in Three-Qubit Ising Model with Added Dzyaloshinskii-Moriya Interaction. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1729-1736.	0.8	5
51	Effect of the Dzyaloshinskii-Moriya interaction on the propagation velocity of the entanglement. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 456, 176-182.	1.2	5
52	Theoretical investigation of the behavior of CuSe ₂ O ₅ compound in high magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 398, 183-189.	1.0	5
53	Integrable-chaos crossover in the spin- $S = 1/2$ Heisenberg chain with cluster interaction. <i>Physica A: Statistical Mechanics and Its Applications</i> . 2019, 516, 502-508.	1.2	5
54	Nonconventional screening of Coulomb interaction in hexagonal boron nitride nanoribbons. <i>Physical Review B</i> , 2020, 101, .	1.1	5

#	ARTICLE	IF	CITATIONS
73	Markovian and Non-Markovian Dynamics in the One-Dimensional Transverse-Field XY Model. Journal of Statistical Physics, 2019, 176, 492-504.	0.5	1
74	Three-Spin System in the Presence of the Quantum Cluster Interaction. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3873-3879.	0.8	1
75	String orders in the Luttinger liquid phase of one-dimensional spin-1/2 systems. Physica A: Statistical Mechanics and Its Applications, 2019, 516, 212-221.	1.2	1
76	Investigation of frustrated and dimerized classical Heisenberg chains. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 702-709.	1.2	0
77	First-order commensurateâ€“incommensurate magnetic phase transition in the coupled FM spin-1/2 two-leg ladders. Physica B: Condensed Matter, 2015, 476, 24-28.	1.3	0
78	Zero-Temperature Study of a Tetrameric Spin-1/2 Chain in a Transverse Magnetic Field. Journal of Low Temperature Physics, 2017, 186, 217-232.	0.6	0
79	Mid-plateau State as a Topological Phase in Dimerized Spin-1/2 Two-Leg Ladders. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3845-3851.	0.8	0
80	Focusing on the Dynamics of the Entanglement in Spin Junction. Journal of Superconductivity and Novel Magnetism, 2019, 32, 2865-2870.	0.8	0
81	Regrowth of the QD with temperature in spin-1/2 Ising chain in a transverse field with added transverse Dzyaloshinskiâ€“Moriya interaction. Journal of Magnetism and Magnetic Materials, 2022, 546, 168756.	1.0	0