

Jeno Solyom

List of Publications by Year in descending order

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57
papers

3,021
citations

331259

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243296

44
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62
all docs

62
docs citations

62
times ranked

1123
citing authors

#	ARTICLE	IF	CITATIONS
1	The Fermi gas model of one-dimensional conductors. <i>Advances in Physics</i> , 1979, 28, 201-303.	35.9	1,656
2	Two-Site Entropy and Quantum Phase Transitions in Low-Dimensional Models. <i>Physical Review Letters</i> , 2006, 96, 116401.	2.9	142
3	Ground-state properties of axially anisotropic quantum Heisenberg chains. <i>Physical Review B</i> , 1984, 30, 3980-3992.	1.1	99
4	Phase transitions between topologically distinct gapped phases in isotropic spin ladders. <i>Physical Review B</i> , 2000, 62, 14965-14974.	1.1	94
5	Period tripling in the bilinear-biquadratic antiferromagnetic $S=1$ chain. <i>Physical Review B</i> , 1991, 44, 11836-11844.	1.1	85
6	Search for the nondimerized quantum nematic phase in the spin-1 chain. <i>Physical Review B</i> , 1995, 51, 3620-3625.	1.1	85
7	Renormalization-group study of the Hamiltonian version of the Potts model. <i>Physical Review B</i> , 1981, 24, 218-229.	1.1	83
8	One-dimensional Hubbard model in a magnetic field and the multicomponent Tomonaga-Luttinger model. <i>Physical Review B</i> , 1993, 47, 6273-6292.	1.1	77
9	Isotropic spin-1 chain with twisted boundary condition. <i>Physical Review B</i> , 1993, 47, 872-881.	1.1	67
10	Competing bilinear and biquadratic exchange couplings in spin-1 Heisenberg chains. <i>Physical Review B</i> , 1987, 36, 8642-8648.	1.1	57
11	Fundamentals of the Physics of Solids. , 2010, , .		53
12	Scaling theory of interacting light and heavy fermions in one dimension. <i>Physical Review B</i> , 1990, 41, 704-716.	1.1	37
13	Solitonic excitations in the Haldane phase of an $S=1$ chain. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 8983-8998.	0.7	33
14	Phase diagram of magnetic ladders constructed from a composite-spin model. <i>Physical Review B</i> , 1997, 55, 291-298.	1.1	30
15	Renormalization group treatment of three-dimensional ordering in a system of weakly coupled linear chains. <i>Journal of Low Temperature Physics</i> , 1976, 24, 579-596.	0.6	29
16	Anisotropic Heisenberg chain with composite spin. <i>Physical Review B</i> , 1986, 34, 487-489.	1.1	29
17	Charge-density waves with electron-electron interactions. <i>Physical Review B</i> , 1985, 32, 2681-2684.	1.1	28
18	Duality of the block transformation and decimation for quantum spin systems. <i>Physical Review B</i> , 1981, 24, 230-243.	1.1	25

#	ARTICLE	IF	CITATIONS
19	Dimerization transition versus neutral-ionic transition in organic mixed-stack compounds. Physical Review B, 1987, 35, 7081-7089.	1.1	25
20	Finite-size-scaling study of the gap formation in the $\hat{H}^{\text{Kondo-necklace}}$ model. Physical Review B, 1992, 46, 7422-7426.	1.1	24
21	The Landau theory of phase transitions in TTF-TCNQ (tetrathiafulvalene-tetracyanoquinodimethane). Physical Review B, 1977, 16, 5238-5249.	1.1	23
22	First-order transition for the (1+1)-dimensional \hat{H}^{Potts} model from finite lattice extrapolation. Journal of Physics C: Solid State Physics, 1983, 16, 2833-2845.	1.5	23
23	Spin-1 Heisenberg chain and the one-dimensional fermion gas. Physical Review B, 1989, 40, 7150-7161.	1.1	19
24	Stability of the Haldane phase in anisotropic magnetic ladders. Physical Review B, 1997, 56, 14449-14455.	1.1	19
25	Momentum distribution near $k=3\pi$ in the Tomonaga-Luttinger model. Physical Review B, 1991, 44, 12690-12700.	1.1	16
26	Ground-state properties of generalized Heisenberg chains with composite spin. Physical Review B, 1988, 38, 6832-6846.	1.1	15
27	Opening of the Haldane gap in anisotropic two- and four-leg spin ladders. Physical Review B, 1999, 60, 15230-15244.	1.1	14
28	Low energy behaviour of a one dimensional Fermi model with short and long range interaction. Solid State Communications, 1975, 17, 63-65.	0.9	13
29	Variational approach to the spin-1 anisotropic Heisenberg chain. Physical Review B, 1985, 32, 7524-7527.	1.1	13
30	Renormalization-group study of the Hamiltonian version of the Potts model. II. Self-dual renormalization-group treatment. Physical Review B, 1983, 28, 2785-2791.	1.1	12
31	Critical behavior in quantum spin chains with composite spin. Physical Review B, 1989, 39, 7003-7008.	1.1	12
32	First-order antiferromagnetic transition in CrN. Physical Review B, 1979, 19, 331-337.	1.1	11
33	Exact trimer ground states on a spin-1 chain. Europhysics Letters, 2000, 50, 389-394.	0.7	10
34	Application of the renormalization group method to the problem of phase transition in one-dimensional metallic systems. III. Extension of the calculation to arbitrary energy variables. Journal of Low Temperature Physics, 1975, 21, 431-446.	0.6	8
35	Crossover from first-order to second-order transitions in some cubic magnetic systems under pressure. Physical Review B, 1977, 16, 2235-2238.	1.1	8
36	Spin-Peierls transition in Heisenberg chains with quantum spin. Physical Review B, 1988, 37, 5781-5786.	1.1	8

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37	Renormalization group for one-dimensional Fermi systems with long-range potential, exchange and umklapp interactions. Physical Review B, 1979, 20, 1129-1133.	1.1	7
38	Symmetry properties of one-dimensional Fermi systems: Some nonperturbative results. Physical Review B, 1981, 23, 1342-1348.	1.1	6
39	Renormalization-group study of the Hamiltonian version of the Potts model. III. Improved results for larger cells. Physical Review B, 1983, 28, 2792-2799.	1.1	5
40	Critical behaviour of coupled spin chains. Journal of Physics Condensed Matter, 1991, 3, 3343-3352.	0.7	5
41	Magnetic ordering in CeAl ₂ : a 24-component ginzburg-landau model. Physical Review B, 1980, 21, 5262-5266.	1.1	3
42	Comment on "magnons and solitons in a spin-1 antiferromagnetic heisenberg-ising ring". Physical Review B, 1988, 38, 11920-11922.	1.1	3
43	Response of finite spin-SHeisenberg chains to local perturbations. Physical Review B, 1999, 59, 3606-3611.	1.1	3
44	Horizontal Bridgman Growth of Al ₃ Ni(Cu) Off-Eutectics. Materials Science Forum, 1991, 77, 113-124.	0.3	2
45	On the first-order phase transition in some type I and type II antiferromagnets. Journal of Physics C: Solid State Physics, 1978, 11, 761-768.	1.5	1
46	Investigation of Amorphous/Crystalline State in Cu-Hf-Al Alloys. Materials Science Forum, 0, 649, 87-92.	0.3	1
47	Interaction and disorder in charge density waves " application to polyacetylene. Synthetic Metals, 1987, 17, 7-11.	2.1	0
48	Three-band model for exciton formation in rare-earth compounds. Physical Review B, 1988, 38, 10256-10263.	1.1	0
49	Spin correlations in dense Kondo systems. Journal of Applied Physics, 1993, 73, 5403-5405.	1.1	0
50	Investigation of Crystallization in an Amorphous Cu-Based Alloy by X-Ray. Materials Science Forum, 0, 589, 131-136.	0.3	0
51	Solid-State Transformation Produced by Laser Treatment and Mechanical Alloying of Fe-Ni-Cu(P) Powders. Materials Science Forum, 0, 589, 391-396.	0.3	0
52	Analysis of Cu-Zr-Ag Amorphisable Alloys Produced by Centrifugal Casting. Materials Science Forum, 0, 649, 75-80.	0.3	0
53	Ni Content Surface Layer Produced by Laser Surface Treatment on Amorphisable Cu Base Alloy. Materials Science Forum, 2010, 649, 101-106.	0.3	0
54	Hubbard physics in the symmetric half-filled periodic anderson-hubbard model. Journal of the Korean Physical Society, 2013, 62, 1423-1426.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Cohesive Energy of the Electron System. , 2010, , 139-174.		0
56	Disordered Systems. , 2010, , 531-575.		0
57	Electronâ€™Electron Interaction and Correlations. , 2010, , 1-60.		0