Gabor Takacs

List of Publications by Year
in descending order

104 papers	2,425 citations	218662 26 h-index	233409 45 g-index
106 all docs	106 docs citations	106 times ranked	680 citing authors

#	Article	IF	Citations
1	Quantum quenches in an interacting field theory: Full quantum evolution versus semiclassical approximations. Physical Review B, 2022, 105, .	3.2	5
2	Confinement in the tricritical Ising model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 828, 137008.	4.1	8
3	Bloch oscillations and the lack of the decay of the false vacuum in a one-dimensional quantum spin chain. SciPost Physics, 2022, 12, .	4.9	13
4	Chirally factorised truncated conformal space approach. Computer Physics Communications, 2022, 277, 108376.	7.5	10
5	Inhomogeneous quantum quenches in the sine-Gordon theory. SciPost Physics, 2022, 12, .	4.9	12
6	Duality and form factors in the thermally deformed two-dimensional tricritical Ising model. SciPost Physics, 2022, 12, .	4.9	6
7	False vacuum decay in the ϕ^4 theory. Physical Review D, 2022, 106, .	4.7	4
8	Integrated cooling solution for concentrator photovoltaic cells. Pollack Periodica, 2021, , .	0.4	1
9	Cascade of singularities in the spin dynamics of a perturbed quantum critical Ising chain. Physical Review B, 2021, 103, .	3.2	8
10	Weak integrability breaking and level spacing distribution. SciPost Physics, 2021, 11, .	4.9	15
11	Collapse instability and staccato decay of oscillons in various dimensions. Physical Review D, 2021, 104, .	4.7	2
12	Out-of-horizon correlations following a quench in a relativistic quantum field theory. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
13	$$ T\overline{T} $$-deformation and long range spin chains. Journal of High Energy Physics, 2020, 2020, 1.	4.7	38
14	Relaxation and entropy generation after quenching quantum spin chains. SciPost Physics, 2020, 9, .	4.9	6
15	Process and Measurement of Electroplated Back-Contact Integrated Microchannel Cooling Devices for CPV Cells. , 2020, , .		1
16	Nonequilibrium time evolution and rephasing in the quantum sine-Gordon model. Physical Review A, 2019, 100, .	2.5	31
17	Perturbative post-quench overlaps in quantum field theory. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
18	Improved process for the manufacturing of back contact integrated cooling channels for concentrator solar cells. , 2019, , .		3

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19	Quasi-particle spectrum and entanglement generation after a quench in the quantum Potts spin chain. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 013104.	2.3	7
20	Chiral entanglement in massive quantum field theories in 1+1 dimensions. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
21	Compact modeling approach for microchannel cooling and its validation. Microsystem Technologies, 2018, 24, 419-431.	2.0	6
22	Thermal modelling of integrated microscale heatsink structures. Microsystem Technologies, 2018, 24, 433-444.	2.0	8
23	Dynamical manifestation of the Gibbs paradox after a quantum quench. Physical Review A, 2018, 98, .	2.5	18
24	Overlap singularity and time evolution in integrable quantum field theory. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
25	Correlation Functions of the Quantum Sine-Gordon Model in and out of Equilibrium. Physical Review Letters, 2018, 121, 110402.	7.8	47
26	Quench dynamics of the Ising field theory in a magnetic field. SciPost Physics, 2018, 5, .	4.9	33
27	Modelling of the flow-rate dependent partial thermal resistance of integrated microscale cooling structures. Microsystem Technologies, 2017, 23, 4001-4010.	2.0	5
28	Integrating chip-level microfluidics cooling into system level design of digital circuits. , 2017, , .		1
29	Integrated microscale cooling for concentrator solar cells. , 2017, , .		1
30	Overlaps after quantum quenches in the sine-Gordon model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 539-545.	4.1	34
31	Real-time confinement following a quantum quench to a non-integrable model. Nature Physics, 2017, 13, 246-249.	16.7	205
32	Roaming form factors for the tricritical to critical Ising flow. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
33	Particle formation and ordering in strongly correlated fermionic systems: Solving a model of quantum chromodynamics. Physical Review D, 2016, 94, .	4.7	14
34	Fabrication and characterization of microscale heat sinks. , 2016, , .		0
35	Hamiltonian truncation approach to quenches in the Ising field theory. Nuclear Physics B, 2016, 911, 805-845.	2.5	59
36	Thermal modelling of integrated microscale heatsink structures. , 2016, , .		6

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37	Initial states in integrable quantum field theory quenches from an integral equation hierarchy. Nuclear Physics B, 2016, 902, 508-547.	2.5	43
38	Quenching the XXZ spin chain: quench action approach versus generalized Gibbs ensemble. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P04001.	2.3	91
39	Enhanced thermal characterization method of microscale heatsink structures. , 2015, , .		9
40	Studying the perturbed Wessâ€"Zuminoâ€"Novikovâ€"Witten SU(2) theory using the truncated conformal spectrum approach. Nuclear Physics B, 2015, 899, 547-569.	2.5	19
41	Confinement in the q-state Potts model: an RG-TCSA study. Journal of High Energy Physics, 2015, 2015, 1.	4.7	23
42	Form factor relocalisation and interpolating renormalisation group flows from the staircase model. Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
43	Exact finite volume expectation values of local operators in excited states. Journal of High Energy Physics, 2015, 2015, 1.	4.7	18
44	Investigation of the pre-heating process during thermosonic wire bonding by FEM simulation. , 2015, , .		0
45	Modelling of the flow rate dependent partial thermal resistance of integrated microscale cooling structures. , 2015, , .		7
46	Boundary state in an integrable quantum field theory out of equilibrium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 734, 52-57.	4.1	53
47	Finite temperature one-point functions in non-diagonal integrable field theories: the sine-Gordon model. Journal of High Energy Physics, 2014, 2014, 1.	4.7	11
48	Excited state TBA and renormalized TCSA in the scaling Potts model. Journal of High Energy Physics, 2014, 2014, 1.	4.7	33
49	Correlations after Quantum Quenches in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:mi>X</mml:mi><mml:mi>Z</mml:mi></mml:mrow></mml:math>Spin Chain: Failure of the Generalized Gibbs Ensemble. Physical Review Letters, 2014, 113, 117203.	7.8	245
50	Finite volume form factors in the presence of integrable defects. Nuclear Physics B, 2014, 882, 501-531.	2.5	8
51	One-point functions in finite volume/temperature: a case study. Journal of High Energy Physics, 2013, 2013, 1.	4.7	12
52	Asymptotic scattering and duality in the one-dimensional three-state quantum Potts model on a lattice. New Journal of Physics, 2013, 15, 013058.	2.9	8
53	Diagonal multisoliton matrix elements in finite volume. Physical Review D, 2013, 87, .	4.7	10
54	Spectral expansion for finite temperature two-point functions and clustering. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P12002.	2.3	12

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55	Sine-Gordon multisoliton form factors in finite volume. Physical Review D, 2012, 85, .	4.7	13
56	Excited state g-functions from the truncated conformal space. Journal of High Energy Physics, 2012, 2012, 1.	4.7	3
57	Sineâ€"Gordon form factors in finite volume. Nuclear Physics B, 2011, 852, 441-467.	2.5	26
58	Breather boundary form factors in sine-Gordon theory. Nuclear Physics B, 2011, 852, 615-633.	2.5	8
59	Determining matrix elements and resonance widths from finite volume: the dangerous Î¼-terms. Journal of High Energy Physics, 2011, 2011, 1.	4.7	8
60	Form factor expansion for thermal correlators. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11012.	2.3	50
61	Form factor perturbation theory from finite volume. Nuclear Physics B, 2010, 825, 466-481.	2.5	16
62	Effective potentials and kink spectra in non-integrable perturbed conformal field theories. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 304022.	2.1	13
63	Form factors in finite volume I: Form factor bootstrap and truncated conformal space. Nuclear Physics B, 2008, 788, 167-208.	2.5	88
64	Form factors in finite volume II: Disconnected terms and finite temperature correlators. Nuclear Physics B, 2008, 788, 209-251.	2.5	101
65	Form factors of boundary exponential operators in the sinh-Gordon model. Nuclear Physics B, 2008, 801, 187-206.	2.5	12
66	Boundary form factors in finite volume. Nuclear Physics B, 2008, 803, 277-298.	2.5	17
67	Finite temperature expectation values of boundary operators. Nuclear Physics B, 2008, 805, 391-417.	2.5	8
68	The Casimir effect in the boundary state formalism. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 164011.	2.1	0
69	Boundary one-point function, Casimir energy and boundary state formalism in dimensional QFT. Nuclear Physics B, 2007, 772, 290-322.	2.5	17
70	Spectrum of local boundary operators from boundary form factor bootstrap. Nuclear Physics B, 2007, 785, 211-233.	2.5	7
71	Case-level detection of mammographic masses. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 395-400.	0.6	1
72	Casimir force between planes as a boundary finite size effect. Physical Review D, 2006, 73, .	4.7	14

#	ARTICLE	IF	CITATIONS
73	Double sine-Gordon model revisited. Nuclear Physics B, 2006, 741, 353-367.	2.5	25
74	Characterization of resonances using finite size effects. Nuclear Physics B, 2006, 748, 485-523.	2.5	26
75	On the boundary form factor program. Nuclear Physics B, 2006, 750, 179-212.	2.5	29
76	(Semi)classical analysis of sine-Gordon model on a strip. Fortschritte Der Physik, 2005, 53, 548-553.	4.4	0
77	Fast Detection of Mammographic Masses with Difficult Case Exclusion. , 2005, , .		0
78	NLIE for hole excited states in the sine-Gordon model with two boundaries. Nuclear Physics B, 2005, 714, 307-335.	2.5	18
79	Finite size effects in quantum field theories with boundary from scattering data. Nuclear Physics B, 2005, 716, 519-542.	2.5	25
80	SUSY sine-Gordon theory as a perturbed conformal field theory and finite size effects. Nuclear Physics B, 2004, 679, 521-544.	2.5	30
81	On perturbative quantum field theory with boundary. Nuclear Physics B, 2004, 682, 585-617.	2.5	20
82	(Semi)classical analysis of sine-Gordon theory on a strip. Nuclear Physics B, 2004, 702, 448-480.	2.5	7
83	Boundary states in SUSY sine-Gordon model with supersymmetric integrable boundary condition. Fortschritte Der Physik, 2003, 51, 799-804.	4.4	0
84	Boundary reduction formula. Journal of Physics A, 2002, 35, 9333-9342.	1.6	17
85	The spectrum of boundary states in sine-Gordon model with integrable boundary conditions. Nuclear Physics B, 2002, 622, 548-564.	2.5	29
86	Finite size effects in boundary sine-Gordon theory. Nuclear Physics B, 2002, 622, 565-592.	2.5	35
87	RSOS revisited. Nuclear Physics B, 2002, 642, 456-482.	2.5	8
88	Spectrum of boundary states in N=1 SUSY sine-Gordon theory. Nuclear Physics B, 2002, 644, 509-532.	2.5	23
89	Nonperturbative study of the two-frequency sine-Gordon model. Nuclear Physics B, 2001, 601, 503-538.	2.5	52
90	Boundary states and finite size effects in sine-Gordon model with Neumann boundary condition. Nuclear Physics B, 2001, 614, 405-448.	2.5	26

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91	NONPERTURBATIVE ANALYSIS OF THE TWO-FREQUENCY SINEâ€"GORDON MODEL. , 2001, , .		0
92	The -folded sine-Gordon model in finite volume. Nuclear Physics B, 2000, 587, 585-618.	2.5	34
93	Non-linear integral equation and finite volume spectrum of minimal models perturbed by Î¦(1,3). Nuclear Physics B, 2000, 570, 615-643.	2.5	26
94	Non-linear integral equation and finite volume spectrum of sine-Gordon theory. Nuclear Physics B, 1999, 540, 543-586.	2.5	94
95	Non-unitarity in quantum affine Toda theory and perturbed conformal field theory. Nuclear Physics B, 1999, 547, 538-568.	2.5	17
96	Truncated conformal space at c=1, nonlinear integral equation and quantization rules for multi-soliton states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 430, 264-273.	4.1	76
97	Scaling functions in the odd charge sector of sine-Gordon/massive Thirring theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 444, 442-450.	4.1	50
98	On the relation between Î¦(1,2) and Î¦(1,5) perturbed minimal models and unitarity. Nuclear Physics B, 1997, 489, 557-579.	2.5	23
99	A new RSOS restriction of the Zhiber-Mikhailov-Shabat model and Î¦(1,5) perturbations of non-unitary minimal models. Nuclear Physics B, 1997, 489, 532-556.	2.5	19
100	Quantum affine symmetry and scattering amplitudes of the imaginary coupled d4(3) affine Toda field theory. Nuclear Physics B, 1997, 502, 629-648.	2.5	5
101	The R-matrix of the Uq(d4(3)) algebra and g2(1) affine Toda field theory. Nuclear Physics B, 1997, 501, 711-727.	2.5	3
102	Form factors of the sausage model obtained with bootstrap fusion from sine-Gordon theory. Physical Review D, 1996, 53, 3272-3284.	4.7	4
103	Free field representation for the O(3) nonlinear Ïƒ model and bootstrap fusion. Physical Review D, 1995, 51, 2922-2932.	4.7	5
104	A2 Toda theory in reduced WZNW framework and the representations of the W-algebra. Nuclear Physics B, 1992, 385, 329-360.	2.5	19