

# Gabor Takacs

## List of Publications by Year in descending order

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Version: 2024-02-01

104  
papers

2,425  
citations

218677  
26  
h-index

233421  
45  
g-index

106  
all docs

106  
docs citations

106  
times ranked

680  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations after Quantum Quenches in the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle Z \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Spin Chain: Failure of the Generalized Gibbs Ensemble. Physical Review Letters, 2014, 113, 117203.	7.8	245
2	Real-time confinement following a quantum quench to a non-integrable model. Nature Physics, 2017, 13, 246-249.	16.7	205
3	Form factors in finite volume II: Disconnected terms and finite temperature correlators. Nuclear Physics B, 2008, 788, 209-251.	2.5	101
4	Non-linear integral equation and finite volume spectrum of sine-Gordon theory. Nuclear Physics B, 1999, 540, 543-586.	2.5	94
5	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
6	Form factors in finite volume I: Form factor bootstrap and truncated conformal space. Nuclear Physics B, 2008, 788, 167-208.	2.5	88
7	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
8	Hamiltonian truncation approach to quenches in the Ising field theory. Nuclear Physics B, 2016, 911, 805-845.	2.5	59
9	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
10	Nonperturbative study of the two-frequency sine-Gordon model. Nuclear Physics B, 2001, 601, 503-538.	2.5	52
11	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
12	Form factor expansion for thermal correlators. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11012.	2.3	50
13	Correlation Functions of the Quantum Sine-Gordon Model in and out of Equilibrium. Physical Review Letters, 2018, 121, 110402.	7.8	47
14	Initial states in integrable quantum field theory quenches from an integral equation hierarchy. Nuclear Physics B, 2016, 902, 508-547.	2.5	43
15	$\overline{T}$ -deformation and long range spin chains. Journal of High Energy Physics, 2020, 2020, 1.	4.7	38
16	Finite size effects in boundary sine-Gordon theory. Nuclear Physics B, 2002, 622, 565-592.	2.5	35
17	The $\tau$ -folded sine-Gordon model in finite volume. Nuclear Physics B, 2000, 587, 585-618.	2.5	34
18	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

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19	Excited state TBA and renormalized TCSA in the scaling Potts model. Journal of High Energy Physics, 2014, 2014, 1.	4.7	33
20	Quench dynamics of the Ising field theory in a magnetic field. SciPost Physics, 2018, 5, .	4.9	33
21	Nonequilibrium time evolution and rephasing in the quantum sine-Gordon model. Physical Review A, 2019, 100, .	2.5	31
22	SUSY sine-Gordon theory as a perturbed conformal field theory and finite size effects. Nuclear Physics B, 2004, 679, 521-544.	2.5	30
23	The spectrum of boundary states in sine-Gordon model with integrable boundary conditions. Nuclear Physics B, 2002, 622, 548-564.	2.5	29
24	On the boundary form factor program. Nuclear Physics B, 2006, 750, 179-212.	2.5	29
25	Non-linear integral equation and finite volume spectrum of minimal models perturbed by $\hat{\mathbb{I}}_1(1,3)$ . Nuclear Physics B, 2000, 570, 615-643.	2.5	26
26	Boundary states and finite size effects in sine-Gordon model with Neumann boundary condition. Nuclear Physics B, 2001, 614, 405-448.	2.5	26
27	Characterization of resonances using finite size effects. Nuclear Physics B, 2006, 748, 485-523.	2.5	26
28	Sine-Gordon form factors in finite volume. Nuclear Physics B, 2011, 852, 441-467.	2.5	26
29	Finite size effects in quantum field theories with boundary from scattering data. Nuclear Physics B, 2005, 716, 519-542.	2.5	25
30	Double sine-Gordon model revisited. Nuclear Physics B, 2006, 741, 353-367.	2.5	25
31	On the relation between $\hat{\mathbb{I}}_1(1,2)$ and $\hat{\mathbb{I}}_1(1,5)$ perturbed minimal models and unitarity. Nuclear Physics B, 1997, 489, 557-579.	2.5	23
32	Spectrum of boundary states in N=1 SUSY sine-Gordon theory. Nuclear Physics B, 2002, 644, 509-532.	2.5	23
33	Confinement in the q-state Potts model: an RG-TCSA study. Journal of High Energy Physics, 2015, 2015, 1.	4.7	23
34	On perturbative quantum field theory with boundary. Nuclear Physics B, 2004, 682, 585-617.	2.5	20
35	A2 Toda theory in reduced WZNW framework and the representations of the W-algebra. Nuclear Physics B, 1992, 385, 329-360.	2.5	19
36	A new RSOS restriction of the Zhiber-Mikhailov-Shabat model and $\hat{\mathbb{I}}_1(1,5)$ perturbations of non-unitary minimal models. Nuclear Physics B, 1997, 489, 532-556.	2.5	19

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37	Studying the perturbed Wess–Zumino–Novikov–Witten SU(2) theory using the truncated conformal spectrum approach. Nuclear Physics B, 2015, 899, 547-569.	2.5	19
38	Overlap singularity and time evolution in integrable quantum field theory. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
39	NLIE for hole excited states in the sine-Gordon model with two boundaries. Nuclear Physics B, 2005, 714, 307-335.	2.5	18
40	Exact finite volume expectation values of local operators in excited states. Journal of High Energy Physics, 2015, 2015, 1.	4.7	18
41	Dynamical manifestation of the Gibbs paradox after a quantum quench. Physical Review A, 2018, 98, .	2.5	18
42	Non-unitarity in quantum affine Toda theory and perturbed conformal field theory. Nuclear Physics B, 1999, 547, 538-568.	2.5	17
43	Boundary reduction formula. Journal of Physics A, 2002, 35, 9333-9342.	1.6	17
44	Boundary one-point function, Casimir energy and boundary state formalism in dimensional QFT. Nuclear Physics B, 2007, 772, 290-322.	2.5	17
45	Boundary form factors in finite volume. Nuclear Physics B, 2008, 803, 277-298.	2.5	17
46	Form factor perturbation theory from finite volume. Nuclear Physics B, 2010, 825, 466-481.	2.5	16
47	Weak integrability breaking and level spacing distribution. SciPost Physics, 2021, 11, .	4.9	15
48	Casimir force between planes as a boundary finite size effect. Physical Review D, 2006, 73, .	4.7	14
49	Particle formation and ordering in strongly correlated fermionic systems: Solving a model of quantum chromodynamics. Physical Review D, 2016, 94, .	4.7	14
50	Perturbative post-quench overlaps in quantum field theory. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
51	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
52	Sine-Gordon multisoliton form factors in finite volume. Physical Review D, 2012, 85, .	4.7	13
53	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
54	Form factors of boundary exponential operators in the sinh-Gordon model. Nuclear Physics B, 2008, 801, 187-206.	2.5	12

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55	Spectral expansion for finite temperature two-point functions and clustering. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P12002.	2.3	12
56	One-point functions in finite volume/temperature: a case study. Journal of High Energy Physics, 2013, 2013, 1.	4.7	12
57	Inhomogeneous quantum quenches in the sine-Gordon theory. SciPost Physics, 2022, 12, .	4.9	12
58	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
59	Out-of-horizon correlations following a quench in a relativistic quantum field theory. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
60	Diagonal multisoliton matrix elements in finite volume. Physical Review D, 2013, 87, .	4.7	10
61	Chiral entanglement in massive quantum field theories in 1+1 dimensions. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
62	Chirally factorised truncated conformal space approach. Computer Physics Communications, 2022, 277, 108376.	7.5	10
63	Enhanced thermal characterization method of microscale heatsink structures. , 2015, , .		9
64	RSOS revisited. Nuclear Physics B, 2002, 642, 456-482.	2.5	8
65	Finite temperature expectation values of boundary operators. Nuclear Physics B, 2008, 805, 391-417.	2.5	8
66	Breather boundary form factors in sine-Gordon theory. Nuclear Physics B, 2011, 852, 615-633.	2.5	8
67	Determining matrix elements and resonance widths from finite volume: the dangerous $\hat{1}/4$ -terms. Journal of High Energy Physics, 2011, 2011, 1.	4.7	8
68	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
69	Finite volume form factors in the presence of integrable defects. Nuclear Physics B, 2014, 882, 501-531.	2.5	8
70	Roaming form factors for the tricritical to critical Ising flow. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
71	Thermal modelling of integrated microscale heatsink structures. Microsystem Technologies, 2018, 24, 433-444.	2.0	8
72	Cascade of singularities in the spin dynamics of a perturbed quantum critical Ising chain. Physical Review B, 2021, 103, .	3.2	8

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73	Confinement in the tricritical Ising model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 828, 137008.	4.1	8
74	(Semi)classical analysis of sine-Gordon theory on a strip. Nuclear Physics B, 2004, 702, 448-480.	2.5	7
75	Spectrum of local boundary operators from boundary form factor bootstrap. Nuclear Physics B, 2007, 785, 211-233.	2.5	7
76	Modelling of the flow rate dependent partial thermal resistance of integrated microscale cooling structures. , 2015, , .		7
77	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
78	Form factor relocalisation and interpolating renormalisation group flows from the staircase model. Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
79	Thermal modelling of integrated microscale heatsink structures. , 2016, , .		6
80	Compact modeling approach for microchannel cooling and its validation. Microsystem Technologies, 2018, 24, 419-431.	2.0	6
81	Relaxation and entropy generation after quenching quantum spin chains. SciPost Physics, 2020, 9, .	4.9	6
82	Duality and form factors in the thermally deformed two-dimensional tricritical Ising model. SciPost Physics, 2022, 12, .	4.9	6
83	Free field representation for the $O(3)$ nonlinear $\bar{\mathbb{I}}f$ model and bootstrap fusion. Physical Review D, 1995, 51, 2922-2932.	4.7	5
84	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
85	Modelling of the flow-rate dependent partial thermal resistance of integrated microscale cooling structures. Microsystem Technologies, 2017, 23, 4001-4010.	2.0	5
86	Quantum quenches in an interacting field theory: Full quantum evolution versus semiclassical approximations. Physical Review B, 2022, 105, .	3.2	5
87	Form factors of the sausage model obtained with bootstrap fusion from sine-Gordon theory. Physical Review D, 1996, 53, 3272-3284.	4.7	4
88	False vacuum decay in the $(\langle \mathbb{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 15$ theory. Physical Review D, 2022, 106, .	4.7	4
89	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
90	Excited state g-functions from the truncated conformal space. Journal of High Energy Physics, 2012, 2012, 1.	4.7	3

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91	Improved process for the manufacturing of back contact integrated cooling channels for concentrator solar cells. , 2019, , .		3
92	Collapse instability and staccato decay of oscillons in various dimensions. Physical Review D, 2021, 104, .	4.7	2
93	Case-level detection of mammographic masses. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 395-400.	0.6	1
94	Integrating chip-level microfluidics cooling into system level design of digital circuits. , 2017, , .		1
95	Integrated microscale cooling for concentrator solar cells. , 2017, , .		1
96	Integrated cooling solution for concentrator photovoltaic cells. Pollack Periodica, 2021, , .	0.4	1
97	Process and Measurement of Electroplated Back-Contact Integrated Microchannel Cooling Devices for CPV Cells. , 2020, , .		1
98	Boundary states in SUSY sine-Gordon model with supersymmetric integrable boundary condition. Fortschritte Der Physik, 2003, 51, 799-804.	4.4	0
99	(Semi)classical analysis of sine-Gordon model on a strip. Fortschritte Der Physik, 2005, 53, 548-553.	4.4	0
100	Fast Detection of Mammographic Masses with Difficult Case Exclusion. , 2005, , .		0
101	The Casimir effect in the boundary state formalism. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 164011.	2.1	0
102	Investigation of the pre-heating process during thermosonic wire bonding by FEM simulation. , 2015, , .		0
103	Fabrication and characterization of microscale heat sinks. , 2016, , .		0
104	NONPERTURBATIVE ANALYSIS OF THE TWO-FREQUENCY SINE-GORDON MODEL. , 2001, , .		0