

Jörg Fröhlich

List of Publications by Year in descending order

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60
papers

4,665
citations

136740

32
h-index

161609

54
g-index

61
all docs

61
docs citations

61
times ranked

1361
citing authors

#	ARTICLE	IF	CITATIONS
1	The appearance of particle tracks in detectors. II. The semi-classical realm. Journal of Mathematical Physics, 2022, 63, .	0.5	2
2	Chiral Anomaly, Topological Field Theory, and Novel States of Matter. Reviews in Mathematical Physics, 2018, 30, 1840007.	0.7	9
3	Chiral Anomaly, Topological Field Theory, and Novel States of Matter. , 2018, , 201-226.		0
4	Decay of Correlations in 2D Quantum Systems with Continuous Symmetry. Annales Henri Poincare, 2017, 18, 2831-2847.	0.8	4
5	Quantum Brownian motion induced by thermal noise in the presence of disorder. Journal of Mathematical Physics, 2016, 57, .	0.5	4
6	Continuous Renormalization Group Analysis of Spectral Problems in Quantum Field Theory. Journal of Functional Analysis, 2015, 268, 749-823.	0.7	6
7	Quantum Electrodynamics of Atomic Resonances. Communications in Mathematical Physics, 2015, 337, 633-680.	1.0	6
8	Gauge theory of topological phases of matter. Europhysics Letters, 2013, 101, 47007.	0.7	12
9	Effective field theory and tunneling currents in the fractional quantum Hall effect. Annals of Physics, 2012, 327, 959-993.	1.0	6
10	Anderson Localization Triggered by Spin Disorderâ€”With an Application to Eu x Ca1â€”x B6. Journal of Statistical Physics, 2011, 143, 970-989.	0.5	2
11	Physical principles underlying the quantum Hall effect. Comptes Rendus Physique, 2011, 12, 332-346.	0.3	19
12	SPECTRAL RENORMALIZATION GROUP AND LOCAL DECAY IN THE STANDARD MODEL OF NON-RELATIVISTIC QUANTUM ELECTRODYNAMICS. Reviews in Mathematical Physics, 2011, 23, 179-209.	0.7	12
13	Infraparticle Scattering States in Non-Relativistic QED: I. The Bloch-Nordsieck Paradigm. Communications in Mathematical Physics, 2010, 294, 761-825.	1.0	42
14	ON SPECTRAL RENORMALIZATION GROUP. Reviews in Mathematical Physics, 2009, 21, 511-548.	0.7	19
15	On the Absence of Excited Eigenstates of Atoms in QED. Communications in Mathematical Physics, 2009, 286, 803-836.	1.0	3
16	Infrared-finite algorithms in QED II. The expansion of the groundstate of an atom interacting with the quantized radiation field. Advances in Mathematics, 2009, 220, 1023-1074.	0.5	16
17	Spin, or actually: Spin and Quantum Statistics. , 2009, , 1-60.		2
18	Infraparticle scattering states in nonrelativistic quantum electrodynamics. II. Mass shell properties. Journal of Mathematical Physics, 2009, 50, .	0.5	35

#	ARTICLE	IF	CITATIONS
19	Adiabatic Theorems for Quantum Resonances. Communications in Mathematical Physics, 2007, 273, 651-675.	1.0	29
20	An Infrared-Finite Algorithm for Rayleigh Scattering Amplitudes, and Bohr's Frequency Condition. Communications in Mathematical Physics, 2007, 274, 457-486.	1.0	15
21	Infrared-Finite Algorithms in QED: The Groundstate of an Atom Interacting with the Quantized Radiation Field. Communications in Mathematical Physics, 2006, 264, 145-165.	1.0	57
22	Smooth Feshbach map and operator-theoretic renormalization group methods. Journal of Functional Analysis, 2003, 203, 44-92.	0.7	63
23	Title is missing!. Compositio Mathematica, 2002, 131, 189-238.	0.5	67
24	The geometry of WZW branes. Journal of Geometry and Physics, 2000, 34, 162-190.	0.7	145
25	Return to equilibrium. Journal of Mathematical Physics, 2000, 41, 3985-4060.	0.5	113
26	Spectral Analysis for Systems of Atoms and Molecules Coupled to the Quantized Radiation Field. Communications in Mathematical Physics, 1999, 207, 249-290.	1.0	196
27	Renormalization Group Analysis of Spectral Problems in Quantum Field Theory. Advances in Mathematics, 1998, 137, 205-298.	0.5	150
28	Quantum Electrodynamics of Confined Nonrelativistic Particles. Advances in Mathematics, 1998, 137, 299-395.	0.5	228
29	A classification of quantum Hall fluids. Journal of Statistical Physics, 1997, 86, 821-897.	0.5	42
30	Structuring the set of incompressible quantum Hall fluids. Nuclear Physics B, 1995, 453, 670-704.	0.9	23
31	Generalized time-energy uncertainty relations and bounds on lifetimes of resonances. Reviews of Modern Physics, 1995, 67, 759-779.	16.4	117
32	Conformal field theory and geometry of strings. CRM Proceedings & Lecture Notes, 1994, , 57-97.	0.1	36
33	An ADE-O Classification of Minimal Incompressible Quantum Hall Fluids. NATO ASI Series Series B: Physics, 1994, , 225-232.	0.2	1
34	Gauge invariance and current algebra in nonrelativistic many-body theory. Reviews of Modern Physics, 1993, 65, 733-802.	16.4	237
35	Random Walks, Critical Phenomena, and Triviality in Quantum Field Theory. , 1992, , .		189
36	Perturbation theory for periodic orbits in a class of infinite dimensional Hamiltonian systems. Communications in Mathematical Physics, 1991, 138, 193-205.	1.0	33

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37	A Nekhoroshev-type theorem for Hamiltonian systems with infinitely many degrees of freedom. Communications in Mathematical Physics, 1988, 119, 95-108.	1.0	49
38	Periodic solutions of some infinite-dimensional Hamiltonian systems associated with non-linear partial difference equations. II. Communications in Mathematical Physics, 1988, 119, 677-699.	1.0	34
39	Bosonization, topological solitons and fractional charges in two-dimensional quantum field theory. Communications in Mathematical Physics, 1988, 116, 127-173.	1.0	47
40	Classical spin systems in the presence of a wall: Multicomponent spins. Communications in Mathematical Physics, 1986, 107, 337-356.	1.0	6
41	Localization in disordered, nonlinear dynamical systems. Journal of Statistical Physics, 1986, 42, 247-274.	0.5	122
42	A heuristic theory of the spin glass phase. Journal of Statistical Physics, 1986, 44, 347-391.	0.5	62
43	SURVEY OF RANDOM SURFACE THEORY. , 1985, , 67-92.		3
44	Mathematical theory of Anderson localisation. Physica A: Statistical Mechanics and Its Applications, 1984, 124, 303-310.	1.2	0
45	Improved perturbation expansion for disordered systems: Beating Griffiths singularities. Communications in Mathematical Physics, 1984, 96, 145-180.	1.0	51
46	A rigorous approach to Anderson localization. Physics Reports, 1984, 103, 9-25.	10.3	31
47	Absence of diffusion in the Anderson tight binding model for large disorder or low energy. Communications in Mathematical Physics, 1983, 88, 151-184.	1.0	490
48	Spin waves, vortices, and the structure of equilibrium states in the classical XY model. Communications in Mathematical Physics, 1983, 89, 303-327.	1.0	22
49	The Berezinskii-Kosterlitz-Thouless Transition (Energy-Entropy Arguments and Renormalization in) Tj ETQq1 1 0.784314 rgBT /Overlock		
50	Continuum (Scaling) Limits of Lattice Field Theories (Triviality of $\lambda \phi^4$ in $d \geq 4$) Tj ETQq0 0 0 rgBT /Overlock 10 T		
51	The random walk representation of classical spin systems and correlation inequalities. Communications in Mathematical Physics, 1982, 83, 123-150.	1.0	267
52	The phase transition in the one-dimensional Ising Model with $1/r^2$ interaction energy. Communications in Mathematical Physics, 1982, 84, 87-101.	1.0	202
53	The Kosterlitz-Thouless transition in two-dimensional Abelian spin systems and the Coulomb gas. Communications in Mathematical Physics, 1981, 81, 527-602.	1.0	346
54	Kosterlitz-Thouless Transition in the Two-Dimensional Plane Rotator and Coulomb Gas. Physical Review Letters, 1981, 46, 1006-1009.	2.9	75

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55	Phase transitions and reflection positivity. II. Lattice systems with short-range and Coulomb interactions. Journal of Statistical Physics, 1980, 22, 297-347.	0.5	94
56	Correlation inequalities and the thermodynamic limit for classical and quantum continuous systems. Communications in Mathematical Physics, 1978, 59, 235-266.	1.0	104
57	Phase transitions in anisotropic lattice spin systems. Communications in Mathematical Physics, 1978, 60, 233-267.	1.0	134
58	Phase transitions and reflection positivity. I. General theory and long range lattice models. Communications in Mathematical Physics, 1978, 62, 1-34.	1.0	315
59	Classical and quantum statistical mechanics in one and two dimensions: Two-component Yukawa and Coulomb systems. Communications in Mathematical Physics, 1976, 47, 233-268.	1.0	144
60	New super-selection sectors (soliton-states) in two dimensional Bose quantum field models. Communications in Mathematical Physics, 1976, 47, 269-310.	1.0	110