

# Juerg Froehlich

## List of Publications by Year in descending order

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54  
papers

1,840  
citations

430442

18  
h-index

264894

42  
g-index

54  
all docs

54  
docs citations

54  
times ranked

601  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Quantum Electrodynamics of Confined Nonrelativistic Particles. Advances in Mathematics, 1998, 137, 299-395.	0.5	228
3	Renormalization Group Analysis of Spectral Problems in Quantum Field Theory. Advances in Mathematics, 1998, 137, 205-298.	0.5	150
4	Boson Stars as Solitary Waves. Communications in Mathematical Physics, 2007, 274, 1-30.	1.0	126
5	Return to equilibrium. Journal of Mathematical Physics, 2000, 41, 3985-4060.	0.5	113
6	Magnetohydrodynamics of chiral relativistic fluids. Physical Review D, 2015, 92, .	1.6	69
7	Smooth Feshbach map and operator-theoretic renormalization group methods. Journal of Functional Analysis, 2003, 203, 44-92.	0.7	63
8	The renormalized electron mass in non-relativistic quantum electrodynamics. Journal of Functional Analysis, 2007, 243, 426-535.	0.7	52
9	Dynamical Collapse of White Dwarfs in Hartree- and Hartree-Fock Theory. Communications in Mathematical Physics, 2007, 274, 737-750.	1.0	43
10	Infraparticle Scattering States in Non-Relativistic QED: I. The Bloch-Nordsieck Paradigm. Communications in Mathematical Physics, 2010, 294, 761-825.	1.0	42
11	Infraparticle scattering states in nonrelativistic quantum electrodynamics. II. Mass shell properties. Journal of Mathematical Physics, 2009, 50, .	0.5	35
12	Adiabatic Theorems for Quantum Resonances. Communications in Mathematical Physics, 2007, 273, 651-675.	1.0	29
13	Renormalized Electron Mass in Nonrelativistic QED. Communications in Mathematical Physics, 2010, 294, 439-470.	1.0	27
14	Emission of Cherenkov radiation as a mechanism for Hamiltonian friction. Advances in Mathematics, 2014, 264, 183-235.	0.5	27
15	Effective Dynamics of an Electron Coupled to an External Potential in Non-relativistic QED. Annales Henri Poincare, 2013, 14, 1573-1597.	0.8	24
16	Gibbs Measures of Nonlinear Schrödinger Equations as Limits of Many-Body Quantum States in Dimensions $d \geq 3$ . Communications in Mathematical Physics, 2017, 356, 883-980.	1.0	23
17	Thermal Ionization. Mathematical Physics Analysis and Geometry, 2004, 7, 239-287.	0.4	20
18	ON SPECTRAL RENORMALIZATION GROUP. Reviews in Mathematical Physics, 2009, 21, 511-548.	0.7	19

#	ARTICLE	IF	CITATIONS
19	Friction in a Model of Hamiltonian Dynamics. Communications in Mathematical Physics, 2012, 315, 401-444.	1.0	18
20	A “garden of forking paths” The quantum mechanics of histories of events. Nuclear Physics B, 2016, 912, 463-484.	0.9	15
21	Some Hamiltonian models of friction. Journal of Mathematical Physics, 2011, 52, .	0.5	13
22	Some applications of the Lee-Yang theorem. Journal of Mathematical Physics, 2012, 53, 095218.	0.5	13
23	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
24	Exponential Relaxation to Equilibrium for a One-Dimensional Focusing Non-Linear Schrödinger Equation with Noise. Communications in Mathematical Physics, 2016, 342, 303-332.	1.0	12
25	Status of the Fundamental Laws of Thermodynamics. Journal of Statistical Physics, 2007, 126, 1045-1068.	0.5	11
26	The preparation of states in quantum mechanics. Journal of Mathematical Physics, 2016, 57, .	0.5	11
27	Scattering Theory for Lindblad Master Equations. Communications in Mathematical Physics, 2017, 350, 1185-1218.	1.0	11
28	Effective Dynamics of a Tracer Particle Interacting with an Ideal Bose Gas. Communications in Mathematical Physics, 2014, 328, 597-624.	1.0	10
29	A microscopic derivation of time-dependent correlation functions of the 1D cubic nonlinear Schrödinger equation. Advances in Mathematics, 2019, 353, 67-115.	0.5	10
30	On the Probabilistic Nature of Quantum Mechanics and the Notion of Closed Systems. Annales Henri Poincare, 2016, 17, 689-731.	0.8	9
31	A Brief Review of the “ETH-Approach to Quantum Mechanics”, 2020, , 21-45.		9
32	Analyticity of the self-energy in total momentum of an atom coupled to the quantized radiation field. Journal of Functional Analysis, 2014, 267, 4139-4196.	0.7	8
33	Ballistic motion of a tracer particle coupled to a Bose gas. Advances in Mathematics, 2014, 259, 252-268.	0.5	8
34	Absence of Embedded Mass Shells: Cerenkov Radiation and Quantum Friction. Annales Henri Poincare, 2010, 11, 1545-1589.	0.8	7
35	Hamiltonian Dynamics of a Particle Interacting with a Wave Field. Communications in Partial Differential Equations, 2013, 38, 2155-2198.	1.0	7
36	A Path-Integral Analysis of Interacting Bose Gases and Loop Gases. Journal of Statistical Physics, 2020, 180, 810-831.	0.5	7

#	ARTICLE	IF	CITATIONS
37	The appearance of particle tracks in detectors. Communications in Mathematical Physics, 2021, 385, 429-463.	1.0	7
38	The Time-Evolution of States in Quantum Mechanics according to the ETH-Approach. Communications in Mathematical Physics, 2022, 389, 1673-1715.	1.0	7
39	Continuous Renormalization Group Analysis of Spectral Problems in Quantum Field Theory. Journal of Functional Analysis, 2015, 268, 749-823.	0.7	6
40	Quantum Electrodynamics of Atomic Resonances. Communications in Mathematical Physics, 2015, 337, 633-680.	1.0	6
41	Quantum Spins and Random Loops on the Complete Graph. Communications in Mathematical Physics, 2020, 375, 1629-1663.	1.0	6
42	Exponential Convergence to the Maxwell Distribution for Some Class of Boltzmann Equations. Communications in Mathematical Physics, 2012, 314, 525-554.	1.0	5
43	Quantum Brownian motion induced by thermal noise in the presence of disorder. Journal of Mathematical Physics, 2016, 57, .	0.5	4
44	Decay of Correlations in 2D Quantum Systems with Continuous Symmetry. Annales Henri Poincare, 2017, 18, 2831-2847.	0.8	4
45	<i>Local</i> iterative block-diagonalization of gapped Hamiltonians: A new tool in singular perturbation theory. Journal of Mathematical Physics, 2022, 63, .	0.5	4
46	On the Absence of Excited Eigenstates of Atoms in QED. Communications in Mathematical Physics, 2009, 286, 803-836.	1.0	3
47	Quantum diffusion with drift and the Einstein relation. I. Journal of Mathematical Physics, 2014, 55, 075206.	0.5	3
48	Relativistic Quantum Theory. Fundamental Theories of Physics, 2021, , 237-257.	0.1	3
49	The time-dependent Hartreeâ€“Fockâ€“Bogoliubov equations for Bosons. Journal of Evolution Equations, 2022, 22, .	0.6	3
50	Ionization of Atoms by Intense Laser Pulses. Annales Henri Poincare, 2010, 11, 1375-1407.	0.8	2
51	Anderson Localization Triggered by Spin Disorderâ€“With an Application to $\text{Eu} \times \text{Ca}1\hat{x} \text{B6}$ . Journal of Statistical Physics, 2011, 143, 970-989.	0.5	2
52	The appearance of particle tracks in detectors. II. The semi-classical realm. Journal of Mathematical Physics, 2022, 63, .	0.5	2
53	Quantum diffusion with drift and the Einstein relation. II. Journal of Mathematical Physics, 2014, 55, 075207.	0.5	1
54	Introduction to the Special Issue in Honor of Joel Lebowitz. Journal of Statistical Physics, 2020, 180, 1-3.	0.5	1