

# Martin Fraas

## List of Publications by Year in descending order

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33  
papers

661  
citations

687363

13  
h-index

580821

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometry and Response of Lindbladians. <i>Physical Review X</i> , 2016, 6, .	8.9	94
2	Optimal hardy weight for second-order elliptic operator: An answer to a problem of Agmon. <i>Journal of Functional Analysis</i> , 2014, 266, 4422-4489.	1.4	76
3	Adiabatic Theorems for Generators of Contracting Evolutions. <i>Communications in Mathematical Physics</i> , 2012, 314, 163-191.	2.2	59
4	Bayesian quantum frequency estimation in presence of collective dephasing. <i>New Journal of Physics</i> , 2014, 16, 113002.	2.9	59
5	Adiabatic Response for Lindblad Dynamics. <i>Journal of Statistical Physics</i> , 2012, 148, 800-823.	1.2	51
6	The Adiabatic Theorem and Linear Response Theory for Extended Quantum Systems. <i>Communications in Mathematical Physics</i> , 2018, 361, 997-1027.	2.2	39
7	Distinguishing decoherence from alternative quantum theories by dynamical decoupling. <i>Physical Review A</i> , 2015, 92, .	2.5	38
8	A Many-Body Index for Quantum Charge Transport. <i>Communications in Mathematical Physics</i> , 2020, 375, 1249-1272.	2.2	30
9	Quantization of Conductance in Gapped Interacting Systems. <i>Annales Henri Poincare</i> , 2018, 19, 695-708.	1.7	28
10	On geometric perturbations of critical Schrödinger operators with a surface interaction. <i>Journal of Mathematical Physics</i> , 2009, 50, 112101.	1.1	16
11	Isolated singularities of positive solutions of $p$ -Laplacian type equations in $\mathbb{R}^d$ . <i>Journal of Differential Equations</i> , 2013, 254, 1097-1119.	2.2	16
12	Invariant measure for quantum trajectories. <i>Probability Theory and Related Fields</i> , 2019, 174, 307-334.	1.8	16
13	POSITIVE LIOUVILLE THEOREMS AND ASYMPTOTIC BEHAVIOR FOR $p$ -LAPLACIAN TYPE ELLIPTIC EQUATIONS WITH A FUCHSIAN POTENTIAL. <i>Confluentes Mathematici</i> , 2011, 03, 291-323.	0.2	14
14	Rational indices for quantum ground state sectors. <i>Journal of Mathematical Physics</i> , 2021, 62, .	1.1	12
15	The decay law can have an irregular character. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 1333-1340.	2.1	11
16	Indirect Acquisition of Information in Quantum Mechanics. <i>Journal of Statistical Physics</i> , 2016, 162, 924-958.	1.2	11
17	On some strong ratio limit theorems for heat kernels. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 28, 495-509.	0.9	9
18	Resonance asymptotics in the generalized Winter model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 360, 57-61.	2.1	8

#	ARTICLE	IF	CITATIONS
19	A remark on helical waveguides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 393-399.	2.1	7
20	On the critical exponent in an isoperimetric inequality for chords. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 1-6.	2.1	7
21	Perturbation Theory for Weak Measurements in Quantum Mechanics, Systems with Finite-Dimensional State Space. Annales Henri Poincare, 2019, 20, 299-335.	1.7	7
22	The appearance of particle tracks in detectors. Communications in Mathematical Physics, 2021, 385, 429-463.	2.2	7
23	An Analysis of the Stationary Operation of Atomic Clocks. Communications in Mathematical Physics, 2016, 348, 363-393.	2.2	6
24	Dynamical Crossing of an Infinitely Degenerate Critical Point. Annales Henri Poincare, 2017, 18, 1755-1776.	1.7	6
25	Many-body Fredholm index for ground-state spaces and Abelian anyons. Physical Review B, 2020, 101, .	3.2	5
26	Non-Markovian noise that cannot be dynamically decoupled by periodic spin echo pulses. SciPost Physics, 2021, 11, .	4.9	5
27	Optimal Hardy-type inequalities for elliptic operators. Comptes Rendus Mathematique, 2012, 350, 475-479.	0.3	3
28	On Landau-Zener Transitions for Dephasing Lindbladians. Annales Henri Poincare, 2017, 18, 2447-2465.	1.7	3
29	Invariant Measure for Stochastic Schrödinger Equations. Annales Henri Poincare, 2021, 22, 347-374.	1.7	3
30	Exactness of Linear Response in the Quantum Hall Effect. Annales Henri Poincare, 2021, 22, 1113-1132.	1.7	3
31	On the absence of stationary currents. Reviews in Mathematical Physics, 2021, 33, 2060011.	1.7	3
32	Indirect Measurements of a Harmonic Oscillator. Annales Henri Poincare, 2019, 20, 2937-2970.	1.7	2
33	The appearance of particle tracks in detectors. II. The semi-classical realm. Journal of Mathematical Physics, 2022, 63, .	1.1	2