Miguel Arturo Ballesteros Montero

List of Publications by Year
in descending order

25 papers	163 citations	1307594 7 h-index	1199594 12 g-index
25 all docs	25 docs citations	25 times ranked	61 citing authors

#	Article	IF	Citations
1	High-Velocity Estimates for the Scattering Operator and Aharonov-Bohm Effect in Three Dimensions. Communications in Mathematical Physics, 2009, 285, 345-398.	2.2	26
2	The Aharonovâ€“Bohm effect and Tonomura et al. experiments: Rigorous results. Journal of Mathematical Physics, 2009, 50, .	1.1	23
3	Aharonov-Bohm Effect and High-Velocity Estimates of Solutions to the SchrÃ¶dinger Equation. Communications in Mathematical Physics, 2011, 303, 175-211.	2.2	16
4	Existence of ground state eigenvalues for the spinâ€“boson model with critical infrared divergence and multiscale analysis. Journal of Mathematical Analysis and Applications, 2017, 453, 773-797.	1.0	12
5	Existence and construction of resonances for atoms coupled to the quantized radiation field. Advances in Mathematics, 2017, 314, 540-572.	1.1	12
6	Indirect Acquisition of Information in Quantum Mechanics. Journal of Statistical Physics, 2016, 162, 924-958.	1.2	11
7	Perturbation Theory for Weak Measurements in Quantum Mechanics, Systems with Finite-Dimensional State Space. Annales Henri Poincare, 2019, 20, 299-335.	1.7	7
8	Analyticity of resonances and eigenvalues and spectral properties of the massless Spinâ€“Boson model. Journal of Functional Analysis, 2019, 276, 2524-2581.	1.4	7
9	The appearance of particle tracks in detectors. Communications in Mathematical Physics, 2021, 385, 429-463.	2.2	7
10	Continuous Renormalization Group Analysis of Spectral Problems in Quantum Field Theory. Journal of Functional Analysis, 2015, 268, 749-823.	1.4	6
11	Quantum Electrodynamics of Atomic Resonances. Communications in Mathematical Physics, 2015, 337, 633-680.	2.2	6
12	One-boson scattering processes in the massless Spin-Boson model â€“ A non-perturbative formula. Advances in Mathematics, 2020, 371, 107248.	1.1	5
13	High-velocity estimates for SchrÃ¶dinger operators in two dimensions: Long-range magnetic potentials and time-dependent inverse scattering. Reviews in Mathematical Physics, 2015, 27, 1550006.	1.7	4
14	High-momenta estimates for the Kleinâ€“Gordon equation: long-range magnetic potentials and time-dependent inverse scattering. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 155302.	2.1	3
15	Relation Between the Resonance and the Scattering Matrix in the Massless Spin-Boson Model. Communications in Mathematical Physics, 2019, 370, 249-290.	2.2	3
16	One-boson scattering processes in the massive Spin-Boson model. Journal of Mathematical Analysis and Applications, 2020, 489, 124094.	1.0	3
17	Analyticity properties of the scattering matrix for matrix SchrÃ¶dinger operators on the discrete line. Journal of Mathematical Analysis and Applications, 2021, 497, 124856.	1.0	3
18	Aharonovâ€“Bohm Effect and High-Momenta Inverse Scattering for the Kleinâ€“Gordon Equation. Annales Henri Poincare, 2016, 17, 2905-2950.	1.7	2

#	Article	IF	Citations
19	A new method of construction of resonances that applies to critical models. Journal of Functional Analysis, 2021, 280, 108818.	1.4	2
20	Band Edge Limit of the Scattering Matrix for Quasi-One-Dimensional Discrete SchrÃ¶dinger Operators. Complex Analysis and Operator Theory, 2022, 16, 1.	0.6	2
21	A new approach to continuous multi-scale analysis in nonrelativistic QED: ground states and photon number bounds for the spin-boson model with critical infrared singularity. Journal of Evolution Equations, 2018, 18, 715-754.	1.1	1
22	Conditionally free reduced products of Hilbert spaces. Studia Mathematica, 2020, 254, 23-44.	0.7	1
23	Wave and scattering operators for the nonlinear Klein-Gordon equation on a quarter-plane. Journal of Differential Equations, 2022, 321, 66-98.	2.2	1
24	Besov and Triebelâ€“Lizorkin regularity for the Hodge decomposition and applications to magnetic potentials. Journal of Mathematical Analysis and Applications, 2017, 445, 532-555.	1.0	0
25	Mathematical Questions and Challenges in Quantum Electrodynamics and its Applications. Oberwolfach Reports, 2017, 14, 2539-2599.	0.0	0