

Ángel Rivas

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

3,280
citations

331670

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302126

39
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43
all docs

43
docs citations

43
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Nonequilibrium Edge Currents with and without Band Topology. <i>Physical Review Letters</i> , 2022, 128, 120403.	7.8	1
2	Strong Coupling Thermodynamics of Open Quantum Systems. <i>Physical Review Letters</i> , 2020, 124, 160601.	7.8	61
3	Quantum Thermodynamics in the Refined Weak Coupling Limit. <i>Entropy</i> , 2019, 21, 725.	2.2	10
4	On the role of joint probability distributions of incompatible observables in Bell and Kochen-Specker Theorems. <i>Annals of Physics</i> , 2019, 411, 167939.	2.8	5
5	Geometry of joint reality: Device-independent steering and operational completeness. <i>Physical Review A</i> , 2019, 100, .	2.5	6
6	Information Flow Versus Divisibility for Non-invertible Dynamical Maps. <i>Springer Proceedings in Physics</i> , 2019, , 15-28.	0.2	0
7	Observation of topological Uhlmann phases with superconducting qubits. <i>Npj Quantum Information</i> , 2018, 4, .	6.7	59
8	The effects of thermal and correlated noise on magnons in a quantum ferromagnet. <i>New Journal of Physics</i> , 2018, 20, 093017.	2.9	4
9	Divisibility and Information Flow Notions of Quantum Markovianity for Noninvertible Dynamical Maps. <i>Physical Review Letters</i> , 2018, 121, 080407.	7.8	49
10	Topological Heat Transport and Symmetry-Protected Boson Currents. <i>Scientific Reports</i> , 2017, 7, 6350.	3.3	34
11	Refined weak-coupling limit: Coherence, entanglement, and non-Markovianity. <i>Physical Review A</i> , 2017, 95, .	2.5	34
12	Nonlinear fiber gyroscope for quantum metrology. <i>Physical Review A</i> , 2016, 94, .	2.5	6
13	Iterative Phase Optimization of Elementary Quantum Error Correcting Codes. <i>Physical Review X</i> , 2016, 6, .	8.9	9
14	Nonlinear Michelson interferometer for improved quantum metrology. <i>Physical Review A</i> , 2015, 92, .	2.5	7
15	Symmetry-protected topological phases at finite temperature. <i>2D Materials</i> , 2015, 2, 034006.	4.4	33
16	Quantifying spatial correlations of general quantum dynamics. <i>New Journal of Physics</i> , 2015, 17, 062001.	2.9	14
17	Quantum non-Markovianity: characterization, quantification and detection. <i>Reports on Progress in Physics</i> , 2014, 77, 094001.	20.1	702
18	Uhlmann Phase as a Topological Measure for One-Dimensional Fermion Systems. <i>Physical Review Letters</i> , 2014, 112, 130401.	7.8	121

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19	Two-Dimensional Density-Matrix Topological Fermionic Phases: Topological Uhlmann Numbers. Physical Review Letters, 2014, 113, 076408.	7.8	81
20	Density-matrix Chern insulators: Finite-temperature generalization of topological insulators. Physical Review B, 2013, 88, .	3.2	76
21	Dynamics of thermal effects in the spin-wave theory of quantum antiferromagnets. Annals of Physics, 2013, 331, 9-23.	2.8	4
22	Vanishing quantum discord is not necessary for completely positive maps. Physical Review A, 2013, 87, .	2.5	54
23	SU(2)-invariant depolarization of quantum states of light. Physical Review A, 2013, 88, .	2.5	14
24	Sub-Heisenberg estimation of non-random phase shifts. New Journal of Physics, 2012, 14, 093052.	2.9	46
25	Generalized toric codes coupled to thermal baths. New Journal of Physics, 2012, 14, 033044.	2.9	19
26	Thermal instability of protected end states in a one-dimensional topological insulator. Physical Review B, 2012, 86, .	3.2	59
27	Non-Markovianity-Assisted Steady State Entanglement. Physical Review Letters, 2012, 108, 160402.	7.8	161
28	Independent nonclassical tests for states and measurements in the same experiment. Physica Scripta, 2011, T143, 014015.	2.5	2
29	Measures of non-Markovianity: Divisibility versus backflow of information. Physical Review A, 2011, 83, .	2.5	221
30	Angular-momentum nonclassicality by breaking classical bounds on statistics. Physical Review A, 2011, 84, .	2.5	6
31	Entanglement and Non-Markovianity of Quantum Evolutions. Physical Review Letters, 2010, 105, 050403.	7.8	765
32	Precision Quantum Metrology and Nonclassicality in Linear and Nonlinear Detection Schemes. Physical Review Letters, 2010, 105, 010403.	7.8	92
33	Exact mapping between system-reservoir quantum models and semi-infinite discrete chains using orthogonal polynomials. Journal of Mathematical Physics, 2010, 51, .	1.1	214
34	Markovian master equations: a critical study. New Journal of Physics, 2010, 12, 113032.	2.9	171
35	Nonclassicality of states and measurements by breaking classical bounds on statistics. Physical Review A, 2009, 79, .	2.5	28
36	Probing a composite spin-boson environment. New Journal of Physics, 2009, 11, 063028.	2.9	20

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37	Stochastic resonance phenomena in spin chains. European Physical Journal B, 2009, 69, 51-57.	1.5	20
38	Intrinsic metrological resolution as a distance measure and nonclassical light. Physical Review A, 2008, 77, .	2.5	12
39	Practical schemes for the measurement of angular-momentum covariance matrices in quantum optics. Physical Review A, 2008, 78, .	2.5	9
40	Characterization of quantum angular-momentum fluctuations via principal components. Physical Review A, 2008, 77, .	2.5	33
41	Experimental quantification of spatial correlations in quantum dynamics. Quantum - the Open Journal for Quantum Science, 0, 2, 90.	0.0	14
42	Relaxation times do not capture logical qubit dynamics. Quantum - the Open Journal for Quantum Science, 0, 6, 632.	0.0	2