

Enrique Rico Ortega

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

6,109
citations

218662

26
h-index

315719

38
g-index

40
all docs

40
docs citations

40
times ranked

3585
citing authors

#	ARTICLE	IF	CITATIONS
1	Entanglement in Quantum Critical Phenomena. Physical Review Letters, 2003, 90, 227902.	7.8	2,199
2	Ultrastrong coupling regimes of light-matter interaction. Reviews of Modern Physics, 2019, 91, .	45.6	613
3	Ground state entanglement in quantum spin chains. Quantum Information and Computation, 2004, 4, 48-92.	0.3	403
4	Topology by dissipation in atomic quantum wires. Nature Physics, 2011, 7, 971-977.	16.7	396
5	Simulating lattice gauge theories within quantum technologies. European Physical Journal D, 2020, 74, 1.	1.3	272
6	Atomic Quantum Simulation of Dynamical Gauge Fields Coupled to Fermionic Matter: From String Breaking to Evolution after a Quench. Physical Review Letters, 2012, 109, 175302.	7.8	241
7	Atomic Quantum Simulation of Dynamical Gauge Fields Coupled to Fermionic Matter: From String Breaking to Evolution after a Quench. Physical Review Letters, 2012, 109, 175302.	7.8	217
8	Topology by dissipation. New Journal of Physics, 2013, 15, 085001.	2.9	210
9	Renormalization-Group Transformations on Quantum States. Physical Review Letters, 2005, 94, 140601.	7.8	150
10	Entanglement entropy in the Lipkin-Meshkov-Glick model. Physical Review A, 2005, 71, .	2.5	150
11	Tensor Networks for Lattice Gauge Theories and Atomic Quantum Simulation. Physical Review Letters, 2014, 112, .	7.8	116
12	Real-Time Dynamics in U(1) Lattice Gauge Theories with Tensor Networks. Physical Review X, 2016, 6, .	8.9	106
13	Two-photon quantum Rabi model with superconducting circuits. Physical Review A, 2018, 97, .	2.5	97
14	Superconducting Circuits for Quantum Simulation of Dynamical Gauge Fields. Physical Review Letters, 2013, 111, 110504.	7.8	93
15	Two-dimensional lattice gauge theories with superconducting quantum circuits. Annals of Physics, 2014, 351, 634-654.	2.8	93
16	Fine-grained entanglement loss along renormalization-group flows. Physical Review A, 2005, 71, .	2.5	88
17	Non-Abelian SU(2) Lattice Gauge Theories in Superconducting Circuits. Physical Review Letters, 2015, 115, 240502.	7.8	87
18	Majorana Modes in Driven-Dissipative Atomic Superfluids with a Zero Chern Number. Physical Review Letters, 2012, 109, 130402.	7.8	65

#	ARTICLE	IF	CITATIONS
19	Lattice gauge tensor networks. <i>New Journal of Physics</i> , 2014, 16, 103015.	2.9	61
20	Effective three-body interactions in triangular optical lattices. <i>Physical Review A</i> , 2004, 70, .	2.5	55
21	Finite-density phase diagram of a $(1+1)d$ non-abelian lattice gauge theory with tensor networks. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 1, 9.	0.0	44
22	Entangling polaritons via dynamical Casimir effect in circuit quantum electrodynamics. <i>Physical Review B</i> , 2016, 93, .	3.2	43
23	Unified superradiant phase transitions. <i>Physical Review A</i> , 2019, 100, .	2.5	36
24	Quantum networks in divergence-free circuit QED. <i>Quantum Science and Technology</i> , 2018, 3, 024012.	5.8	31
25	Entanglement of superconducting qubits via acceleration radiation. <i>Scientific Reports</i> , 2017, 7, 657.	3.3	30
26	Creating lattice gauge potentials in circuit QED: The bosonic Creutz ladder. <i>Physical Review A</i> , 2019, 99, .	2.5	29
27	$\langle S \rangle = \frac{1}{N} \sum_{i=1}^N \langle S_i \rangle$ Nuclear Physics with ultracold Gases. <i>Annals of Physics</i> , 2018, 393, 466-483.	2.8	28
28	Loops and Strings in a Superconducting Lattice Gauge Simulator. <i>Physical Review Letters</i> , 2016, 117, 240504.	7.8	26
29	Quantum Simulation of the Bosonic Creutz Ladder with a Parametric Cavity. <i>Physical Review Letters</i> , 2021, 127, 100503.	7.8	24
30	Quantum Rabi model in the Brillouin zone with ultracold atoms. <i>Physical Review A</i> , 2017, 95, .	2.5	23
31	Quantum simulation of Abelian lattice gauge theories via state-dependent hopping. <i>Physical Review A</i> , 2017, 96, .	2.5	22
32	Solitons in One-Dimensional Lattices with a Flat Band. <i>Annalen Der Physik</i> , 2017, 529, 1600262.	2.4	16
33	Quantum simulation of light-front parton correlators. <i>Physical Review D</i> , 2021, 104, .	4.7	15
34	Quantum Information and Triangular Optical Lattices. <i>Optics and Spectroscopy (English Translation)</i> 10, 10, 96.	9.6	10
35	2D multipartite valence bond states in quantum anti-ferromagnets. <i>Annals of Physics</i> , 2008, 323, 2115-2131.	2.8	7
36	Loop-free tensor networks for high-energy physics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210065.	3.4	7

#	ARTICLE	IF	CITATIONS
37	Chiral states and nonreciprocal phases in a Josephson junction ring. Physical Review B, 2021, 103, .	3.2	3
38	Local renormalization method for random systems. New Journal of Physics, 2010, 12, 025020.	2.9	2
39	Valence-bond states: Link models. Annals of Physics, 2009, 324, 1875-1896.	2.8	1
40	Role of anomalous symmetry in \mathbb{Z}_2 spin liquids. Physical Review B, 2022, 105, .		