

Gerardo Ortiz

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,312
citations

159585

30
h-index

149698

56
g-index

89
all docs

89
docs citations

89
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism for particle fractionalization and universal edge physics in quantum Hall fluids. Communications Physics, 2022, 5, .	5.3	4
2	Evidence for Quasicritical Brain Dynamics. Physical Review Letters, 2021, 126, 098101.	7.8	52
3	Floquet Gauge Pumps as Sensors for Spectral Degeneracies Protected by Symmetry or Topology. Physical Review Letters, 2021, 126, 206602.	7.8	1
4	Neutron-state entanglement with overlapping paths. Physical Review Research, 2021, 3, .	3.6	8
5	Integrable model of topological SO(5) superfluidity. Physical Review B, 2021, 104, .	3.2	2
6	Quantum entangled-probe scattering theory. New Journal of Physics, 2021, 23, 083022.	2.9	3
7	Bloch and Bethe Ansatzes for the Harper model: A butterfly with a boundary. Physical Review B, 2021, 104, .	3.2	1
8	Absence of finite temperature phase transitions in the X-Cube model and its Z_p generalization. Annals of Physics, 2020, 412, 168018.	2.8	14
9	Local Two-Body Parent Hamiltonians for the Entire Jain Sequence. Physical Review Letters, 2020, 124, 196803.	7.8	16
10	Squaring the fermion: The threefold way and the fate of zero modes. Physical Review B, 2020, 102, .	3.2	19
11	Certified quantum measurement of Majorana fermions. Physical Review A, 2020, 101, .	2.5	7
12	Unveiling contextual realities by microscopically entangling a neutron. Nature Communications, 2020, 11, 930.	12.8	22
13	Operator analysis of contextuality-witness measurements for multimode-entangled single-neutron interferometry. Physical Review A, 2020, 101, .	2.5	10
14	Phase transitions in the Z and $U(1)$ clock models. Physical Review B, 2019, 100, .	3.2	16
15	Topological superfluidity with repulsive alkaline-earth atoms in optical lattices. New Journal of Physics, 2019, 21, 073049.	2.9	1
16	Universality Classes of Stabilizer Code Hamiltonians. Physical Review Letters, 2019, 123, 230503.	7.8	12
17	Integrable model of a p -wave bosonic superfluid. Physical Review Research, 2019, 1, .	3.6	1
18	Generalization of Bloch's theorem for arbitrary boundary conditions: Interfaces and topological surface band structure. Physical Review B, 2018, 98, .	3.2	25

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19	Entangled Pauli principles: The DNA of quantum Hall fluids. <i>Physical Review B</i> , 2018, 98, .	3.2	23
20	Quantum interval-valued probability: Contextuality and the Born rule. <i>Physical Review A</i> , 2018, 97, .	2.5	1
21	Binomial Spin Glass. <i>Physical Review Letters</i> , 2018, 121, 080601.	7.8	1
22	Topological superfluidity with repulsive fermionic atoms. , 2018, , 126-146.		0
23	Exact solution of corner-modified banded block-Toeplitz eigensystems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 195204.	2.1	18
24	Non-Abelian fermion parity interferometry of Majorana bound states in a Fermi sea. <i>Physical Review B</i> , 2017, 95, .	3.2	10
25	Unveiling causal activity of complex networks. <i>Europhysics Letters</i> , 2017, 119, 18003.	2.0	21
26	Generalization of Bloch's theorem for arbitrary boundary conditions: Theory. <i>Physical Review B</i> , 2017, 96, .	3.2	42
27	On the role of self-adjointness in the continuum formulation of topological quantum phases. <i>American Journal of Physics</i> , 2016, 84, 858-868.	0.7	18
28	Exact Solution of Quadratic Fermionic Hamiltonians for Arbitrary Boundary Conditions. <i>Physical Review Letters</i> , 2016, 117, 076804.	7.8	33
29	Robust topological degeneracy of classical theories. <i>Physical Review B</i> , 2016, 93, .	3.2	4
30	Staircase of crystal phases of hard-core bosons on the kagome lattice. <i>Physical Review B</i> , 2016, 94, .	3.2	12
31	What is a particle-conserving Topological Superfluid? The fate of Majorana modes beyond mean-field theory. <i>Annals of Physics</i> , 2016, 372, 357-374.	2.8	25
32	Equivalence of topological insulators and superconductors. <i>Physical Review B</i> , 2015, 92, .	3.2	12
33	Tunable unconventional Kondo effect on topological insulator surfaces. <i>Physical Review B</i> , 2015, 92, .	3.2	14
34	Zero modes, bosonization, and topological quantum order: The Laughlin state in second quantization. <i>Physical Review B</i> , 2015, 91, .	3.2	17
35	Fast quantum methods for optimization. <i>European Physical Journal: Special Topics</i> , 2015, 224, 35-49.	2.6	9
36	Dynamical generation of Floquet Majorana flat bands in s-wave superconductors. <i>Europhysics Letters</i> , 2015, 110, 17004.	2.0	16

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37	Many-Body Characterization of Particle-Conserving Topological Superfluids. Physical Review Letters, 2014, 113, 267002.	7.8	72
38	Quasicritical brain dynamics on a nonequilibrium Widom line. Physical Review E, 2014, 90, 062714.	2.1	66
39	Fock parafermions and self-dual representations of the braid group. Physical Review A, 2014, 89, .	2.5	42
40	Chiral phases of two-dimensional hard-core bosons with frustrated ring exchange. Physical Review B, 2014, 89, .	3.2	16
41	Majorana flat bands ins-wave gapless topological superconductors. Physical Review B, 2014, 89, .	3.2	26
42	Commensurate and incommensurate states of topological quantum matter. Physical Review B, 2014, 90, .	3.2	21
43	Degenerate adiabatic perturbation theory: Foundations and applications. Physical Review A, 2014, 90, .	2.5	15
44	A solution to the non-Abelian duality problem. Nuclear Physics B, 2013, 877, 574-597.	2.5	4
45	Multiband $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave topological superconductors: Role of dimensionality and magnetic field response. Physical Review B, 2013, 87, .	3.2	27
46	Holographic symmetries and generalized order parameters for topological matter. Physical Review B, 2013, 87, .	3.2	34
47	Repulsive interactions in quantum Hall systems as a pairing problem. Physical Review B, 2013, 88, .	3.2	32
48	Berezinskiiâ€“Kosterlitzâ€“Thouless Transition Through the Eyes of Duality. , 2013, , 93-134.		4
49	Arbitrary dimensional Majorana dualities and architectures for topological matter. Physical Review B, 2012, 86, .	3.2	43
50	Majorana Modes in Time-Reversal Invariant $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Wave Topological Superconductors. Physical Review Letters, 2012, 108, 036803.	7.8	99
51	Dualities and the phase diagram of the p -clock model. Nuclear Physics B, 2012, 854, 780-814.	2.5	90
52	Effective and exact holographies from symmetries and dualities. Annals of Physics, 2012, 327, 2491-2521.	2.8	31
53	Frustrated magnets and quantum paramagnetic phases at finite temperature. Physical Review B, 2012, 86, .	3.2	5
54	Adiabatic theorem for quantum systems with spectral degeneracy. Physical Review A, 2012, 85, .	2.5	28

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55	Bulk-boundary correspondence in three-dimensional topological insulators. Physical Review B, 2011, 84, .	3.2	27
56	The bond-algebraic approach to dualities. Advances in Physics, 2011, 60, 679-798.	14.4	79
57	Dynamical critical scaling and effective thermalization in quantum quenches: Role of the initial state. Physical Review B, 2011, 83, .	3.2	26
58	Integrable two-channel model of a superfluid. Physical Review B, 2011, 84, .	3.2	16
59	Unified Approach to Quantum and Classical Dualities. Physical Review Letters, 2010, 104, 020402.	7.8	43
60	Superconductivity in Strongly Repulsive Fermions: The Role of Kinetic-Energy Frustration. Physical Review Letters, 2010, 105, 187002.	7.8	7
61	Quantum phase diagram of the integrable superfluid. Physical Review B, 2010, 82, .	3.2	78
62	Adiabatic Perturbation Theory and Geometric Phases for Degenerate Systems. Physical Review Letters, 2010, 104, 170406.	7.8	25
63	Comment on "Quantum phase transition in the four-spin exchange antiferromagnet". Physical Review B, 2010, 82, .	3.2	4
64	Anomalous nonergodic scaling in adiabatic multicritical quantum quenches. Physical Review B, 2009, 80, .	3.2	30
65	Bond algebras and exact solvability of Hamiltonians: Spin-1/2 multilayer systems. Physical Review B, 2009, 79, .	3.2	70
66	Breached pairing in trapped three-color atomic Fermi gases. Physical Review A, 2009, 79, .	2.5	24
67	The importance of being entangled. Nature Materials, 2009, 8, 541-542.	27.5	1
68	A symmetry principle for topological quantum order. Annals of Physics, 2009, 324, 977-1057.	2.8	180
69	Sufficient symmetry conditions for Topological Quantum Order. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16944-16949.	7.1	111
70	Hierarchical mean-field approach to the model on a square lattice. Physical Review B, 2009, 79, .	3.2	81
71	Beyond the quantum adiabatic approximation: Adiabatic perturbation theory. Physical Review A, 2008, 78, .	2.5	105
72	Orbital order driven quantum criticality. Europhysics Letters, 2008, 84, 36005.	2.0	18

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73	Dynamical non-ergodic scaling in continuous finite-order quantum phase transitions. Europhysics Letters, 2008, 84, 67008.	2.0	96
74	Quantum critical phenomena with broken particle-hole symmetry. Physical Review B, 2008, 77, .	3.2	2
75	Autocorrelations and thermal fragility of anyonic loops in topologically quantum ordered systems. Physical Review B, 2008, 77, .	3.2	133
76	GENERALIZED ENTANGLEMENT IN STATIC AND DYNAMIC QUANTUM PHASE TRANSITIONS. , 2008, , .		2
77	TOPOLOGICAL QUANTUM ORDER: A NEW PARADIGM IN THE PHYSICS OF MATTER. , 2008, , .		1
78	FRANK VERSTRAETE: HERMANN KUEMMEL AWARD 2007. , 2008, , .		0
79	Optimal quantum measurements of expectation values of observables. Physical Review A, 2007, 75, .	2.5	106
80	Quantum Approach to Classical Statistical Mechanics. Physical Review Letters, 2007, 99, 030603.	7.8	69
81	Integrable Models for Asymmetric Fermi Superfluids: Emergence of a New Exotic Pairing Phase. Physical Review Letters, 2006, 96, 180404.	7.8	29
82	BCS-to-BEC crossover from the exact BCS solution. Physical Review A, 2005, 72, .	2.5	73
83	Exactly-solvable models derived from a generalized Gaudin algebra. Nuclear Physics B, 2005, 707, 421-457.	2.5	146
84	A Subsystem-Independent Generalization of Entanglement. Physical Review Letters, 2004, 92, 107902.	7.8	249
85	Nature and measure of entanglement in quantum phase transitions. Physical Review A, 2004, 70, .	2.5	97
86	Algebraic approach to interacting quantum systems. Advances in Physics, 2004, 53, 1-82.	14.4	110
87	Generalizations of entanglement based on coherent states and convex sets. Physical Review A, 2003, 68, .	2.5	107
88	Inhomogeneity-induced superconductivity?. Europhysics Letters, 2000, 50, 540-546.	2.0	22