

Michele Burrello

List of Publications by Year in descending order

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36
papers

1,166
citations

516215

16
h-index

377514

34
g-index

36
all docs

36
docs citations

36
times ranked

1068
citing authors

#	ARTICLE	IF	CITATIONS
1	Coulomb-assisted braiding of Majorana fermions in a Josephson junction array. <i>New Journal of Physics</i> , 2012, 14, 035019.	1.2	257
2	Flux-controlled quantum computation with Majorana fermions. <i>Physical Review B</i> , 2013, 88, .	1.1	253
3	Formulation of lattice gauge theories for quantum simulations. <i>Physical Review D</i> , 2015, 91, .	1.6	110
4	Fermionic projected entangled pair states and local $U(1)$ gauge symmetries. <i>Annals of Physics</i> , 2015, 363, 385-439.	1.0	55
5	Non-Abelian Anyons from Degenerate Landau Levels of Ultracold Atoms in Artificial Gauge Potentials. <i>Physical Review Letters</i> , 2010, 105, 125304.	2.9	45
6	Topological phases in two-dimensional arrays of parafermionic zero modes. <i>Physical Review B</i> , 2013, 87, .	1.1	38
7	Projected Entangled Pair States with non-Abelian gauge symmetries: An $SU(2)$ study. <i>Annals of Physics</i> , 2016, 374, 84-137.	1.0	37
8	Building projected entangled pair states with a local gauge symmetry. <i>New Journal of Physics</i> , 2016, 18, 043008.	1.2	37
9	Double Weyl points and Fermi arcs of topological semimetals in non-Abelian gauge potentials. <i>Physical Review A</i> , 2016, 94, .	1.0	32
10	Methods for detecting charge fractionalization and winding numbers in an interacting fermionic ladder. <i>New Journal of Physics</i> , 2015, 17, 105001.	1.2	24
11	Geometrically protected triple-point crossings in an optical lattice. <i>Physical Review B</i> , 2018, 97, .	1.1	24
12	Ultracold atoms in $U(2)$ non-Abelian gauge potentials preserving the Landau levels. <i>Physical Review A</i> , 2011, 84, .	1.0	23
13	Commensurate and incommensurate states of topological quantum matter. <i>Physical Review B</i> , 2014, 90, .	1.1	21
14	Axial anomaly in multi-Weyl and triple-point semimetals. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	21
15	Effects of disorder on Coulomb-assisted braiding of Majorana zero modes. <i>Physical Review B</i> , 2013, 88, .	1.1	19
16	Topological phase transitions driven by non-Abelian gauge potentials in optical square lattices. <i>Physical Review A</i> , 2013, 88, .	1.0	18
17	Topological Quantum Hashing with the Icosahedral Group. <i>Physical Review Letters</i> , 2010, 104, 160502.	2.9	16
18	Braiding of non-Abelian anyons using pairwise interactions. <i>Physical Review A</i> , 2013, 87, .	1.0	16

#	ARTICLE	IF	CITATIONS
19	Two-Dimensional Weyl semimetals in gauge-symmetric systems. <i>Physical Review B</i> , 2016, 94, .	3.5	14
20	Two-Dimensional Lattice Gauge Theory on a Near-Term Quantum Simulator: Variational Quantum Optimization, Confinement, and Topological Order. <i>PRX Quantum</i> , 2022, 3, .	0.6	13
21	Fractional quantum Hall states of a Bose gas with a spin-orbit coupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 134006.	1.2	13
22	The resonant state at filling factor $\hat{\nu} = 1/2$ in chiral fermionic ladders. <i>New Journal of Physics</i> , 2018, 20, 053007.	2.9	9
23	Topological Blockade and Measurement of Topological Charge. <i>Physical Review Letters</i> , 2013, 110, 086803.	1.1	7
24	Field theory approach to the quantum transport in Weyl semimetals. <i>Physical Review B</i> , 2019, 100, .	1.1	6
25	Dyonic zero-energy modes. <i>Physical Review B</i> , 2018, 98, .	1.1	6
26	Coulomb-interaction-induced Majorana edge modes in nanowires. <i>Physical Review B</i> , 2019, 100, .	1.3	6
27	Exploring helical phases of matter in bosonic ladders. <i>Physical Review Research</i> , 2020, 2, .	1.3	5
28	Z_2 lattice gauge theory in a ladder geometry. <i>Physical Review Research</i> , 2021, 3, .	2.9	5
29	Readout of Parafermionic States by Transport Measurements. <i>Physical Review Letters</i> , 2022, 129, .	1.2	4
30	Topological quantum gate construction by iterative pseudogroup hashing. <i>New Journal of Physics</i> , 2011, 13, 025023.	0.7	4
31	Exact diagonalization of cubic lattice models in commensurate Abelian magnetic fluxes and translational invariant non-Abelian potentials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 455301.	1.3	4
32	Reaching the quantum Hall regime with rotating Rydberg-dressed atoms. <i>Physical Review Research</i> , 2020, 2, .	1.1	3
33	Strongly correlated states of trapped ultracold fermions in deformed Landau levels. <i>Physical Review B</i> , 2015, 91, .	0.4	2
34	Abelian Gauge Potentials on Cubic Lattices. <i>Springer INdAM Series</i> , 2017, , 47-70.	1.1	2
35	Topological van Hove singularities at phase transitions in Weyl metals. <i>Physical Review B</i> , 2021, 104, .	0.1	1
36	Gauge Theories with Ultracold Atoms. <i>Springer Proceedings in Physics</i> , 2020, , 217-245.		