

# Leonardo Mazza

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5627921/publications.pdf>

Version: 2024-02-01

39  
papers

1,593  
citations

331259

21  
h-index

301761

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Correlated Particle-Hole Pairs and String Order in Low-Dimensional Mott Insulators. <i>Science</i> , 2011, 334, 200-203.	6.0	246
2	Wilson Fermions and Axion Electrodynamics in Optical Lattices. <i>Physical Review Letters</i> , 2010, 105, 190404.	2.9	134
3	Cluster Mean-Field Approach to the Steady-State Phase Diagram of Dissipative Spin Systems. <i>Physical Review X</i> , 2016, 6, .	2.8	125
4	An optical-lattice-based quantum simulator for relativistic field theories and topological insulators. <i>New Journal of Physics</i> , 2012, 14, 015007.	1.2	121
5	Magnetic crystals and helical liquids in alkaline-earth fermionic gases. <i>Nature Communications</i> , 2015, 6, 8134.	5.8	71
6	Laughlin-like States in Bosonic and Fermionic Atomic Synthetic Ladders. <i>Physical Review X</i> , 2017, 7, .	2.8	66
7	Localized Majorana-Like Modes in a Number-Conserving Setting: An Exactly Solvable Model. <i>Physical Review Letters</i> , 2015, 115, 156402.	2.9	64
8	Topological Fractional Pumping with Alkaline-Earth-Like Atoms in Synthetic Lattices. <i>Physical Review Letters</i> , 2017, 118, 230402.	2.9	63
9	Energy transport between two integrable spin chains. <i>Physical Review B</i> , 2016, 93, .	1.1	58
10	Energy transport in Heisenberg chains beyond the Luttinger liquid paradigm. <i>Physical Review B</i> , 2014, 90, .	1.1	57
11	Single-site- and single-atom-resolved measurement of correlation functions. <i>Applied Physics B: Lasers and Optics</i> , 2013, 113, 27-39.	1.1	53
12	Synthetic gauge fields in synthetic dimensions: interactions and chiral edge modes. <i>New Journal of Physics</i> , 2016, 18, 035010.	1.2	49
13	Photon transport in a dissipative chain of nonlinear cavities. <i>Physical Review A</i> , 2015, 91, .	1.0	46
14	Energy transport in an integrable parafermionic chain via generalized hydrodynamics. <i>Physical Review B</i> , 2018, 98, .	1.1	41
15	Dissipative topological superconductors in number-conserving systems. <i>Physical Review B</i> , 2016, 93, .	1.1	37
16	The XYZ chain with Dzyaloshinskyâ€Moriya interactions: from spinâ€orbit-coupled lattice bosons to interacting Kitaev chains. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P09005.	0.9	31
17	Braiding Majorana zero modes using quantum dots. <i>Physical Review B</i> , 2018, 98, .	1.1	28
18	Ballistic transport and boundary resistances in inhomogeneous quantum spin chains. <i>Nature Communications</i> , 2019, 10, 4820.	5.8	25

#	ARTICLE	IF	CITATIONS
19	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
20	Topological Phases of Parafermions: A Model with Exactly Solvable Ground States. <i>Physical Review Letters</i> , 2017, 118, 170402.	2.9	24
21	Nontopological parafermions in a one-dimensional fermionic model with even multiplet pairing. <i>Physical Review B</i> , 2018, 98, .	1.1	24
22	Majorana Quasiparticles Protected by Z2 Angular Momentum Conservation. <i>Physical Review Letters</i> , 2017, 118, 200404.	2.9	20
23	Anyonic tight-binding models of parafermions and of fractionalized fermions. <i>Physical Review B</i> , 2019, 99, .	1.1	20
24	Out-of-equilibrium dynamics and thermalization of string order. <i>Physical Review B</i> , 2014, 90, .	1.1	19
25	Detecting two-site spin-entanglement in many-body systems with local particle-number fluctuations. <i>New Journal of Physics</i> , 2015, 17, 013015.	1.2	19
26	Fusion Channels of Non-Abelian Anyons from Angular-Momentum and Density-Profile Measurements. <i>Physical Review Letters</i> , 2019, 123, 266801.	2.9	19
27	Destruction of string order after a quantum quench. <i>Physical Review B</i> , 2016, 94, .	1.1	16
28	Perturbative approach to continuous-time quantum error correction. <i>Physical Review A</i> , 2015, 91, .	1.0	12
29	Quantum memories with zero-energy Majorana modes and experimental constraints. <i>Physical Review A</i> , 2016, 93, .	1.0	10
30	Dissipative flow equations. <i>SciPost Physics</i> , 2020, 9, .	1.5	10
31	Spin-gap spectroscopy in a bosonic flux ladder. <i>New Journal of Physics</i> , 2018, 20, 015004.	1.2	8
32	Pairing in spinless fermions and spin chains with next-nearest neighbor interactions. <i>Physical Review Research</i> , 2021, 3, .	1.3	8
33	Two-Fluid Coexistence in a Spinless Fermions Chain with Pair Hopping. <i>Physical Review Letters</i> , 2021, 126, 206805.	2.9	8
34	One-dimensional spin-1/2 fermionic gases with two-body losses: Weak dissipation and spin conservation. <i>Physical Review A</i> , 2021, 104, .	1.0	8
35	Two-fluid coexistence and phase separation in a one-dimensional model with pair hopping and density interactions. <i>Physical Review B</i> , 2021, 104, .	1.1	7
36	Eightfold way to dark states in SU(3) cold gases with two-body losses. <i>Physical Review A</i> , 2022, 105, .	1.0	7

#	ARTICLE	IF	CITATIONS
37	<p> <math>\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{I} \in \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle</math> </p> <p> <math>\langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{I} \in \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle</math> </p> <p>dual Josephson effects induced by symmetry defects. <i>Physical Review B</i>, 2019, 99, .</p>	1.1	3
38	Kinetic formation of trimers and multimers in a spinless fermionic chain. <i>Physical Review B</i> , 2022, 105, .	1.1	2
39	Quantum simulation of the quantum Hall effect with synthetic dimensions. , 2017, , .		0