

# Alessandro Romito

## List of Publications by Year in descending order

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55  
papers

1,523  
citations

430442

18  
h-index

315357

38  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnostics of entanglement dynamics in noisy and disordered spin chains via the measurement-induced steady-state entanglement transition. <i>Physical Review B</i> , 2022, 105, .	1.1	18
2	Observing a topological transition in weak-measurement-induced geometric phases. <i>Physical Review Research</i> , 2022, 4, .	1.3	8
3	Relation between scattering matrix topological invariants and conductance in Floquet Majorana systems. <i>Physical Review B</i> , 2021, 104, .	1.1	0
4	Universality of Entanglement Transitions from Stroboscopic to Continuous Measurements. <i>Physical Review Letters</i> , 2020, 125, 210602.	2.9	64
5	Heat and Work Along Individual Trajectories of a Quantum Bit. <i>Physical Review Letters</i> , 2020, 124, 110604.	2.9	38
6	Detection of Quantum Interference without an Interference Pattern. <i>Physical Review Letters</i> , 2020, 125, 020405.	2.9	4
7	Topological transition in measurement-induced geometric phases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5706-5713.	3.3	22
8	Pumped heat and charge statistics from Majorana braiding. <i>Physical Review B</i> , 2020, 102, .	1.1	3
9	Quantum Zeno effect appears in stages. <i>Physical Review Research</i> , 2020, 2, .	1.3	35
10	Quantum Zeno effect with partial measurement and noisy dynamics. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
11	Efficiency of a cyclic quantum heat engine with finite-size baths. <i>Physical Review E</i> , 2019, 100, 012122.	0.8	6
12	Entanglement transition from variable-strength weak measurements. <i>Physical Review B</i> , 2019, 100, .	1.1	150
13	Sensing electrons during an adiabatic coherent transport passage. <i>Physical Review B</i> , 2019, 99, .	1.1	2
14	Heat pumping from braiding Majorana zero modes. <i>Physical Review B</i> , 2019, 99, .	1.1	5
15	Symmetry Constrained Decoherence of Conditional Expectation Values. <i>Universe</i> , 2019, 5, 46.	0.9	1
16	Information Gain and Loss for a Quantum Maxwell's Demon. <i>Physical Review Letters</i> , 2018, 121, 030604.	2.9	96
17	Ubiquitous Nonlocal Entanglement with Majorana Zero Modes. <i>Physical Review Letters</i> , 2017, 119, 157702.	2.9	10
18	Effect of interactions on quantum-limited detectors. <i>Physical Review B</i> , 2017, 95, .	1.1	4

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19	Interacting Majorana chain: Transport properties and signatures of an emergent two-dimensional weak topological phase. <i>Physical Review B</i> , 2017, 96, .	1.1	3
20	How to extract weak values from a mesoscopic electronic system. <i>Quantum Studies: Mathematics and Foundations</i> , 2016, 3, 265-277.	0.4	2
21	Many-body manifestation of interaction-free measurement: The Elitzur-Vaidman bomb. <i>Physical Review B</i> , 2016, 93, .	1.1	4
22	Transport signatures of interacting fermions in quasi-one-dimensional topological superconductors. <i>Physical Review B</i> , 2016, 93, .	1.1	7
23	Thermodynamics of Weakly Measured Quantum Systems. <i>Physical Review Letters</i> , 2016, 116, 080403.	2.9	54
24	Weak values are quantum: you can bet on it. <i>Quantum Studies: Mathematics and Foundations</i> , 2016, 3, 1-4.	0.4	11
25	Crossover between strong and weak measurement in interacting many-body systems. <i>New Journal of Physics</i> , 2016, 18, 013016.	1.2	2
26	On-demand maximally entangled states with a parity meter and continuous feedback. <i>Physical Review B</i> , 2014, 90, .	1.1	11
27	Measuring cotunneling in its wake. <i>Physical Review B</i> , 2014, 90, .	1.1	15
28	Weak measurement of cotunneling time. <i>Physical Review B</i> , 2014, 90, .	1.1	19
29	Scattering Matrix Formulation of the Topological Index of Interacting Fermions in One-Dimensional Superconductors. <i>Physical Review Letters</i> , 2014, 113, 057003.	2.9	14
30	Standard and Null Weak Values. , 2014, , 377-387.		1
31	Null Values and Quantum State Discrimination. <i>Physical Review Letters</i> , 2013, 110, 170405.	2.9	21
32	Signatures of topological phase transitions in mesoscopic superconducting rings. <i>New Journal of Physics</i> , 2013, 15, 025001.	1.2	46
33	Decoherence effects on weak value measurements in double quantum dots. <i>Physical Review B</i> , 2012, 86, .	1.1	5
34	Null weak values in multi-level systems. <i>Physica Scripta</i> , 2012, T151, 014014.	1.2	6
35	Enhanced Zero-Bias Majorana Peak in the Differential Tunneling Conductance of Disordered Multisubband Quantum-Wire/Superconductor Junctions. <i>Physical Review Letters</i> , 2012, 109, 227006.	2.9	115
36	Manipulating Majorana fermions using supercurrents. <i>Physical Review B</i> , 2012, 85, .	1.1	70

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37	Topological superconducting phases in disordered quantum wires with strong spin-orbit coupling. Physical Review B, 2011, 84, .	1.1	154
38	Probability Distribution of Majorana End-State Energies in Disordered Wires. Physical Review Letters, 2011, 107, 196804.	2.9	148
39	Charge Sensing Amplification via Weak Values Measurement. Physical Review Letters, 2011, 106, 080405.	2.9	63
40	Weak values under uncertain conditions. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 343-347.	1.3	4
41	Single-qubit lasing in the strong-coupling regime. Physical Review A, 2010, 82, .	1.0	27
42	Weak Values of Electron Spin in a Double Quantum Dot. Physical Review Letters, 2008, 100, 056801.	2.9	54
43	Tomography of Many-Body Weak Values: Mach-Zehnder Interferometry. Physical Review Letters, 2008, 101, 226802.	2.9	35
44	Transport properties of a periodically driven superconducting single-electron transistor. Physical Review B, 2007, 75, .	1.1	0
45	Decoherence of Rabi oscillations of electronic spin states in a double quantum dot. Physical Review B, 2007, 76, .	1.1	5
46	IMPLEMENTATION OF QUANTUM COMMUNICATION PROTOCOLS IN JOSEPHSON JUNCTION ARRAYS. International Journal of Quantum Information, 2006, 04, 519-529.	0.6	1
47	JOSEPHSON ARRAYS AS QUANTUM CHANNELS. , 2005, , .		0
48	Chaotic dynamics in superconducting nanocircuits. Europhysics Letters, 2005, 71, 893-899.	0.7	15
49	Solid-state quantum communication with Josephson arrays. Physical Review B, 2005, 71, .	1.1	83
50	Full counting statistics of Cooper pair shuttling. Physical Review B, 2004, 70, .	1.1	18
51	Decoherence Effects in the Josephson Current of a Cooper Pair Shuttle. , 2004, , 17-31.		0
52	Decoherence in a Cooper pair shuttle. Physical Review B, 2003, 68, .	1.1	10
53	$\hat{b}\hat{a}^\dagger\hat{s}\hat{1}^3$ in a calculable model of electroweak symmetry breaking. Nuclear Physics B, 2002, 627, 95-106.	0.9	4
54	Conditional work statistics of quantum measurements. Quantum - the Open Journal for Quantum Science, 0, 3, 175.	0.0	13

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55	Three-fold way of entanglement dynamics in monitored quantum circuits. Journal of Physics A: Mathematical and Theoretical, 0, , .	0.7	7