

# 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	Topological superconducting phases in disordered quantum wires with strong spin-orbit coupling. Physical Review B, 2011, 84, .	1.1	154
2	Entanglement transition from variable-strength weak measurements. Physical Review B, 2019, 100, .	1.1	150
3	Probability Distribution of Majorana End-State Energies in Disordered Wires. Physical Review Letters, 2011, 107, 196804.	2.9	148
4	Enhanced Zero-Bias Majorana Peak in the Differential Tunneling Conductance of Disordered Multisubband Quantum-Wire/Superconductor Junctions. Physical Review Letters, 2012, 109, 227006.	2.9	115
5	Information Gain and Loss for a Quantum Maxwell's Demon. Physical Review Letters, 2018, 121, 030604.	2.9	96
6	Solid-state quantum communication with Josephson arrays. Physical Review B, 2005, 71, .	1.1	83
7	Manipulating Majorana fermions using supercurrents. Physical Review B, 2012, 85, .	1.1	70
8	Universality of Entanglement Transitions from Stroboscopic to Continuous Measurements. Physical Review Letters, 2020, 125, 210602.	2.9	64
9	Charge Sensing Amplification via Weak Values Measurement. Physical Review Letters, 2011, 106, 080405.	2.9	63
10	Weak Values of Electron Spin in a Double Quantum Dot. Physical Review Letters, 2008, 100, 056801.	2.9	54
11	Thermodynamics of Weakly Measured Quantum Systems. Physical Review Letters, 2016, 116, 080403.	2.9	54
12	Signatures of topological phase transitions in mesoscopic superconducting rings. New Journal of Physics, 2013, 15, 025001.	1.2	46
13	Heat and Work Along Individual Trajectories of a Quantum Bit. Physical Review Letters, 2020, 124, 110604.	2.9	38
14	Tomography of Many-Body Weak Values: Mach-Zehnder Interferometry. Physical Review Letters, 2008, 101, 226802.	2.9	35
15	Quantum Zeno effect appears in stages. Physical Review Research, 2020, 2, .	1.3	35
16	Single-qubit lasing in the strong-coupling regime. Physical Review A, 2010, 82, .	1.0	27
17	Topological transition in measurement-induced geometric phases. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5706-5713.	3.3	22
18	Null Values and Quantum State Discrimination. Physical Review Letters, 2013, 110, 170405.	2.9	21

#	ARTICLE	IF	CITATIONS
19	Weak measurement of cotunneling time. <i>Physical Review B</i> , 2014, 90, .	1.1	19
20	Full counting statistics of Cooper pair shuttling. <i>Physical Review B</i> , 2004, 70, .	1.1	18
21	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
22	Chaotic dynamics in superconducting nanocircuits. <i>Europhysics Letters</i> , 2005, 71, 893-899.	0.7	15
23	Measuring cotunneling in its wake. <i>Physical Review B</i> , 2014, 90, .	1.1	15
24	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
25	Conditional work statistics of quantum measurements. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 175.	0.0	13
26	On-demand maximally entangled states with a parity meter and continuous feedback. <i>Physical Review B</i> , 2014, 90, .	1.1	11
27	Weak values are quantum: you can bet on it. <i>Quantum Studies: Mathematics and Foundations</i> , 2016, 3, 1-4.	0.4	11
28	Decoherence in a Cooper pair shuttle. <i>Physical Review B</i> , 2003, 68, .	1.1	10
29	Ubiquitous Nonlocal Entanglement with Majorana Zero Modes. <i>Physical Review Letters</i> , 2017, 119, 157702.	2.9	10
30	Quantum Zeno effect with partial measurement and noisy dynamics. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
31	Observing a topological transition in weak-measurement-induced geometric phases. <i>Physical Review Research</i> , 2022, 4, .	1.3	8
32	Transport signatures of interacting fermions in quasi-one-dimensional topological superconductors. <i>Physical Review B</i> , 2016, 93, .	1.1	7
33	Three-fold way of entanglement dynamics in monitored quantum circuits. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	0.7	7
34	Null weak values in multi-level systems. <i>Physica Scripta</i> , 2012, T151, 014014.	1.2	6
35	Efficiency of a cyclic quantum heat engine with finite-size baths. <i>Physical Review E</i> , 2019, 100, 012122.	0.8	6
36	Decoherence of Rabi oscillations of electronic spin states in a double quantum dot. <i>Physical Review B</i> , 2007, 76, .	1.1	5

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37	Decoherence effects on weak value measurements in double quantum dots. <i>Physical Review B</i> , 2012, 86, .	1.1	5
38	Heat pumping from braiding Majorana zero modes. <i>Physical Review B</i> , 2019, 99, .	1.1	5
39	$\hat{b}\hat{a}\hat{t}^3\hat{s}^3$ in a calculable model of electroweak symmetry breaking. <i>Nuclear Physics B</i> , 2002, 627, 95-106.	0.9	4
40	Weak values under uncertain conditions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 343-347.	1.3	4
41	Many-body manifestation of interaction-free measurement: The Elitzur-Vaidman bomb. <i>Physical Review B</i> , 2016, 93, .	1.1	4
42	Effect of interactions on quantum-limited detectors. <i>Physical Review B</i> , 2017, 95, .	1.1	4
43	Detection of Quantum Interference without an Interference Pattern. <i>Physical Review Letters</i> , 2020, 125, 020405.	2.9	4
44	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
45	Pumped heat and charge statistics from Majorana braiding. <i>Physical Review B</i> , 2020, 102, .	1.1	3
46	How to extract weak values from a mesoscopic electronic system. <i>Quantum Studies: Mathematics and Foundations</i> , 2016, 3, 265-277.	0.4	2
47	Crossover between strong and weak measurement in interacting many-body systems. <i>New Journal of Physics</i> , 2016, 18, 013016.	1.2	2
48	Sensing electrons during an adiabatic coherent transport passage. <i>Physical Review B</i> , 2019, 99, .	1.1	2
49	IMPLEMENTATION OF QUANTUM COMMUNICATION PROTOCOLS IN JOSEPHSON JUNCTION ARRAYS. <i>International Journal of Quantum Information</i> , 2006, 04, 519-529.	0.6	1
50	Symmetry Constrained Decoherence of Conditional Expectation Values. <i>Universe</i> , 2019, 5, 46.	0.9	1
51	Standard and Null Weak Values. , 2014, , 377-387.		1
52	JOSEPHSON ARRAYS AS QUANTUM CHANNELS. , 2005, , .		0
53	Transport properties of a periodically driven superconducting single-electron transistor. <i>Physical Review B</i> , 2007, 75, .	1.1	0
54	Relation between scattering matrix topological invariants and conductance in Floquet Majorana systems. <i>Physical Review B</i> , 2021, 104, .	1.1	0

#	ARTICLE	IF	CITATIONS
55	Decoherence Effects in the Josephson Current of a Cooper Pair Shuttle. , 2004, , 17-31.		0