Alessandro Tosini

List of Publications by Year
in descending order

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23 papers	353 citations	840776 11 h-index	839539 18 g-index
23 all docs	23 docs citations	23 times ranked	139 citing authors

#	Article	IF	Citations
1	Quantum field as a quantum cellular automaton: The Dirac free evolution in one dimension. Annals of Physics, 2015, 354, 244-264.	2.8	57
2	Fermionic computation is non-local tomographic and violates monogamy of entanglement. Europhysics Letters, 2014, 107, 20009.	2.0	35
3	The Feynman problem and fermionic entanglement: Fermionic theory versus qubit theory. International Journal of Modern Physics A, 2014, 29, 1430025.	1.5	33
4	Dirac quantum cellular automaton in one dimension:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="italic">Zitterbewegung</mml:mi></mml:math>and scattering from potential. Physical Review A, 2013, 88, .	2.5	25
5	Thirring quantum cellular automaton. Physical Review A, 2018, 97, .	2.5	25
6	No-Hypersignaling Principle. Physical Review Letters, 2017, 119, 020401.	7.8	22
7	Doubly special relativity from quantum cellular automata. Europhysics Letters, 2015, 109, 50003.	2.0	20
8	Quantum walks with a one-dimensional coin. Physical Review A, 2016, 93, .	2.5	17
9	Solutions of a Two-Particle Interacting Quantum Walk. Entropy, 2018, 20, 435.	2.2	16
10	Testing axioms for quantum theory on probabilistic toy-theories. Quantum Information Processing, 2010, 9, 95-141.	2.2	14
11	Weyl, Dirac and Maxwell Quantum Cellular Automata. Foundations of Physics, 2015, 45, 1203-1221.	1.3	14
12	Path-integral solution of the one-dimensional Dirac quantum cellular automaton. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3165-3168.	2.1	12
13	Free Quantum Field Theory from Quantum Cellular Automata. Foundations of Physics, 2015, 45, 1137-1152.	1.3	12
14	Discrete Feynman propagator for the Weyl quantum walk in 2 + 1 dimensions. Europhysics Letters, 2015, 109, 40012.	2.0	11
15	Information and disturbance in operational probabilistic theories. Quantum - the Open Journal for Quantum Science, 0, 4, 363.	0.0	8
16	Fermionic State Discrimination by Local Operations and Classical Communication. Physical Review Letters, 2020, 125, 110403.	7.8	7
17	Emergence of spaceâ€“time from topologically homogeneous causal networks. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2013, 44, 294-299.	1.4	6
18	Discrete Time Dirac Quantum Walk in 3+1 Dimensions. Entropy, 2016, 18, 228.	2.2	5

#	Article	IF	Citations
19	Virtually Abelian quantum walks. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 035301.	2.1	5
20	Path-sum solution of the Weyl quantum walk in 3 + 1 dimensions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160394.	3.4	3
21	Unambiguous discrimination of fermionic states through local operations and classical communication. Physical Review A, 2021, 103, .	2.5	3
22	Data-driven inference, reconstruction, and observational completeness of quantum devices. Physical Review A, 2020, 102, .	2.5	2
23	Shannon theory beyond quantum: Information content of a source. Physical Review A, 2022, 105, .	2.5	1