

Fernando de Melo

List of Publications by Year in descending order

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30
papers

1,984
citations

567281

15
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

1330
citing authors

#	ARTICLE	IF	CITATIONS
1	Macro-to-micro quantum mapping and the emergence of nonlinearity. <i>Physical Review A</i> , 2021, 103, .	2.5	6
2	Principle of majorization: Application to random quantum circuits. <i>Physical Review A</i> , 2021, 104, .	2.5	5
3	Entropic uncertainty relations and the quantum-to-classical transition. <i>Physical Review A</i> , 2020, 102, .	2.5	10
4	Multiparticle quantum walk with a gaslike interaction. <i>Physical Review A</i> , 2019, 100, .	2.5	3
5	Spin-entanglement wave in a coarse-grained optical lattice. <i>Physical Review A</i> , 2019, 100, .	2.5	9
6	Quantum walks via quantum cellular automata. <i>Quantum Information Processing</i> , 2018, 17, 1.	2.2	11
7	Reliability of Digitized Quantum Annealing and the Decay of Entanglement. <i>Annalen Der Physik</i> , 2018, 530, 1800007.	2.4	2
8	Emerging dynamics arising from coarse-grained quantum systems. <i>Physical Review A</i> , 2017, 96, .	2.5	16
9	Quantum information processing by weaving quantum Talbot carpets. <i>Physical Review A</i> , 2015, 91, .	2.5	18
10	Open-system dynamics of entanglement:a key issues review. <i>Reports on Progress in Physics</i> , 2015, 78, 042001.	20.1	234
11	Entanglement of identical particles and the detection process. <i>Fortschritte Der Physik</i> , 2013, 61, 225-237.	4.4	52
12	Universality in open system entanglement dynamics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 085301.	2.1	8
13	The power of noisy fermionic quantum computation. <i>New Journal of Physics</i> , 2013, 15, 013015.	2.9	21
14	Optimal teleportation with a noisy source. <i>Physical Review A</i> , 2012, 85, .	2.5	28
15	Noisy one-way quantum computations: The role of correlations. <i>Physical Review A</i> , 2011, 84, .	2.5	36
16	Efficient and coherent excitation transfer across disordered molecular networks. <i>Physical Review E</i> , 2011, 83, 021912.	2.1	120
17	Physical Realizations of Quantum Information. <i>Lecture Notes in Physics</i> , 2010, , 253-276.	0.7	4
18	Zero-Transmission Law for Multiport Beam Splitters. <i>Physical Review Letters</i> , 2010, 104, 220405.	7.8	91

#	ARTICLE	IF	CITATIONS
19	Detection and typicality of bound entangled states. <i>Physical Review A</i> , 2009, 80, .	2.5	13
20	Scalability of Greenberger-Horne-Zeilinger and random-state entanglement in the presence of decoherence. <i>Physical Review A</i> , 2009, 79, .	2.5	35
21	Equation of motion for entanglement. <i>Quantum Information Processing</i> , 2009, 8, 523-534.	2.2	11
22	Evolution equation for quantum entanglement. <i>Nature Physics</i> , 2008, 4, 99-102.	16.7	141
23	Experimental investigation of the dynamics of entanglement: Sudden death, complementarity, and continuous monitoring of the environment. <i>Physical Review A</i> , 2008, 78, .	2.5	219
24	Entanglement Evolution in Finite Dimensions. <i>Physical Review Letters</i> , 2008, 101, 170502.	7.8	37
25	Quantum Nondemolition Circuit for Testing Bipartite Complementarity. <i>Physical Review Letters</i> , 2007, 98, 250501.	7.8	17
26	Experimental observation of environment-induced sudden death of entanglement. <i>Proceedings of SPIE</i> , 2007, 6603, 320.	0.8	4
27	Environment-Induced Sudden Death of Entanglement. <i>Science</i> , 2007, 316, 579-582.	12.6	811
28	Single observable concurrence measurement without simultaneous copies. <i>Physical Review A</i> , 2006, 74, .	2.5	10
29	Direct measurement of the quantum state of the electromagnetic field in a superconducting transmission line. <i>Physical Review A</i> , 2006, 73, .	2.5	10
30	EXPONENTIAL GROWTH OF PARTICLE NUMBER FAR FROM THE PARAMETRIC RESONANCE. <i>International Journal of Modern Physics A</i> , 2002, 17, 4413-4418.	1.5	2