

Marcelo França Santos

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,714
citations

186265

28
h-index

182427

51
g-index

83
all docs

83
docs citations

83
times ranked

2112
citing authors

#	ARTICLE	IF	CITATIONS
1	Maximally efficient quantum thermal machines fueled by nonequilibrium steady states. <i>Physical Review A</i> , 2021, 103, .	2.5	4
2	Effective Hamiltonian for Stokes-anti-Stokes pair generation with pump and probe polarized modes. <i>Physical Review B</i> , 2020, 102, .	3.2	5
3	Stokes-anti-Stokes light-scattering process: A photon-wave-function approach. <i>Physical Review A</i> , 2020, 102, .	2.5	3
4	Charging a quantum battery via nonequilibrium heat current. <i>Physical Review E</i> , 2020, 102, 062133.	2.1	19
5	Detection of quantum non-Markovianity close to the Born-Markov approximation. <i>Physical Review A</i> , 2020, 101, .	2.5	17
6	Lifetime and polarization for real and virtual correlated Stokes-anti-Stokes Raman scattering in diamond. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
7	Physical Properties of Photonic Cooper Pairs Generated via Correlated Stokes-anti-Stokes Raman Scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900218.	1.5	4
8	Continuous monitoring of energy in quantum open systems. <i>Physical Review A</i> , 2019, 99, .	2.5	5
9	Stokes-anti-Stokes correlated photon properties akin to photonic Cooper pairs. <i>Physical Review B</i> , 2019, 99, .	3.2	9
10	Quantum Correlations in the Stokes-anti-Stokes Raman Scattering: Photonic Cooper Pairs. , 2019, , .		0
11	Steady State Entanglement beyond Thermal Limits. <i>Physical Review Letters</i> , 2018, 120, 063604.	7.8	48
12	Coarse graining a non-Markovian collisional model. <i>Physical Review A</i> , 2017, 95, .	2.5	29
13	Probing quantum fluctuation theorems in engineered reservoirs. <i>New Journal of Physics</i> , 2017, 19, 103011.	2.9	28
14	Photonic Counterparts of Cooper Pairs. <i>Physical Review Letters</i> , 2017, 119, 193603.	7.8	25
15	Temporal Quantum Correlations in Inelastic Light Scattering from Water. <i>Physical Review Letters</i> , 2016, 117, 243603.	7.8	28
16	Quantum rectifier in a one-dimensional photonic channel. <i>Physical Review A</i> , 2016, 93, .	2.5	25
17	Laser from a many-body correlated medium. <i>Physical Review B</i> , 2016, 93, .	3.2	6
18	Stokes-anti-Stokes correlation in the inelastic scattering of light by matter and generalization of the Bose-Einstein population function. <i>Physical Review B</i> , 2016, 93, .	3.2	36

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19	Steady-state entanglement between distant quantum dots in photonic crystal dimers. Physical Review B, 2016, 94, .	3.2	11
20	High Resolution non-Markovianity in NMR. Scientific Reports, 2016, 6, 33945.	3.3	31
21	Nonequilibrium localization and the interplay between disorder and interactions. Journal of Physics Condensed Matter, 2016, 28, 195602.	1.8	0
22	Experimental observation of weak non-Markovianity. Scientific Reports, 2015, 5, 17520.	3.3	86
23	Experimental simulation of decoherence in photonics qubits. Scientific Reports, 2015, 5, 16049.	3.3	28
24	Quantum Cheshire Cat™ as simple quantum interference. New Journal of Physics, 2015, 17, 053042.	2.9	32
25	Experimental observation of transition between strong and weak non-Markovianity. , 2015, , .		0
26	Nonuniversality of entanglement convertibility. Physical Review B, 2014, 89, .	3.2	10
27	Fabry-Perot Interferometer with Quantum Mirrors: Nonlinear Light Transport and Rectification. Physical Review Letters, 2014, 113, 243601.	7.8	70
28	Work and quantum phase transitions: Quantum latency. Physical Review E, 2014, 89, 062103.	2.1	51
29	Environmental correlations and Markovian to non-Markovian transitions in collisional models. Physical Review A, 2014, 90, .	2.5	58
30	A quantum optical valve in a nonlinear-linear resonators junction. Europhysics Letters, 2014, 106, 54003.	2.0	36
31	Strong Light-Matter Coupling. , 2014, , .		11
32	Realistic loophole-free Bell test with atom-photon entanglement. Nature Communications, 2013, 4, 2104.	12.8	18
33	Cooperativity of a few quantum emitters in a single-mode cavity. Physical Review A, 2013, 88, .	2.5	25
34	Equilibrium and disorder-induced behavior in quantum light-matter systems. New Journal of Physics, 2012, 14, 043033.	2.9	11
35	Maximal violations and efficiency requirements for Bell tests with photodetection and homodyne measurements. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 215308.	2.1	16
36	Optimal irreversible stimulated emission. New Journal of Physics, 2012, 14, 083029.	2.9	21

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37	Monitoring stimulated emission at the single-photon level in one-dimensional atoms. Physical Review A, 2012, 85, .	2.5	16
38	Quantum phases with differing computational power. Nature Communications, 2012, 3, 812.	12.8	62
39	Universal optimal broadband photon cloning and entanglement creation in one-dimensional atoms. Physical Review A, 2012, 86, .	2.5	15
40	Tests of Bell inequality with arbitrarily low photodetection efficiency and homodyne measurements. Physical Review A, 2012, 86, .	2.5	11
41	Quantum Computing with Incoherent Resources and Quantum Jumps. Physical Review Letters, 2012, 108, 170501.	7.8	19
42	Few emitters in a cavity: from cooperative emission to individualization. New Journal of Physics, 2011, 13, 093020.	2.9	70
43	Theoretical Study of Optical Microcavities Coupled by a Modulated Bragg Mirror. , 2011, , .		0
44	Extreme nonlocality with one photon. New Journal of Physics, 2011, 13, 053054.	2.9	76
45	Distant entanglement protected through artificially increased local temperature. New Journal of Physics, 2011, 13, 013010.	2.9	23
46	Criteria for two distinguishable fermions to form a boson. Physical Review A, 2011, 84, .	2.5	21
47	Physically realizable entanglement by local continuous measurements. Physical Review A, 2011, 83, .	2.5	17
48	Observing different quantum trajectories in cavity QED. Europhysics Letters, 2011, 94, 64003.	2.0	18
49	Controlling the dynamics of a coupled atom-cavity system by pure dephasing. Physical Review B, 2010, 81, .	3.2	112
50	Continuous quantum error correction through local operations. Physical Review A, 2010, 82, .	2.5	10
51	Protection of quantum information and optimal singlet conversion through higher-dimensional quantum systems and environment monitoring. Physical Review A, 2010, 81, .	2.5	14
52	Emergence of classicality in small-number entangled systems. Physical Review A, 2009, 79, .	2.5	3
53	Quantifying the decay of quantum properties in single-mode states. Optics Communications, 2008, 281, 4696-4704.	2.1	4
54	Geometrically induced singular behavior of entanglement. Physical Review A, 2008, 78, .	2.5	2

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55	Entanglement dynamics and geometry of quantum states: calculations and simulations. , 2008, , .		0
56	Useful entanglement from the Pauli principle. Physical Review B, 2007, 76, .	3.2	29
57	Abrupt changes in the dynamics of quantum disentanglement. Physical Review A, 2007, 75, .	2.5	47
58	Photonic phase transitions, spin models, and QIP in coupled cavity arrays. , 2007, , .		1
59	Entanglement evolution of bipartite n -dimensional systems. Journal of Physics: Conference Series, 2007, 84, 012011.	0.4	0
60	Photon-blockade-induced Mott transitions and $\langle X \rangle \langle Y \rangle$ spin models in coupled cavity arrays. Physical Review A, 2007, 76, .	2.5	497
61	A proposal for the implementation of quantum gates with photonic-crystal waveguides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 377-380.	2.1	45
62	Arbitrary unitary operations in confined harmonic oscillators. , 2007, , .		0
63	Geometric Phase Induced by a Cyclically Evolving Squeezed Vacuum Reservoir. Physical Review Letters, 2006, 96, 150403.	7.8	43
64	Entanglement versus energy in the entanglement transfer problem. Physical Review A, 2006, 74, .	2.5	36
65	Coherent Quantum Evolution via Reservoir Driven Holonomies. Physical Review Letters, 2006, 96, 020403.	7.8	33
66	Direct measurement of finite-time disentanglement induced by a reservoir. Physical Review A, 2006, 73, .	2.5	149
67	Universal and Deterministic Manipulation of the Quantum State of Harmonic Oscillators: A Route to Unitary Gates for Fock State Qubits. Physical Review Letters, 2005, 95, 010504.	7.8	29
68	Increasing identical particle entanglement by fuzzy measurements. Physical Review A, 2005, 72, .	2.5	18
69	Statistical properties of macroscopic laser fields after coherent interaction with an atomic vapour. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S518-S523.	1.4	1
70	Anyons and transmutation of statistics via a vacuum-induced Berry phase. Physical Review A, 2004, 70, .	2.5	10
71	Accessibility of physical states and non-uniqueness of entanglement measure. Journal of Physics A, 2004, 37, 5887-5893.	1.6	3
72	Berry's phase in cavity QED: Proposal for observing an effect of field quantization. Physical Review A, 2003, 67, .	2.5	36

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73	Vacuum induced berry phase: Theory and experimental proposal. Journal of Modern Optics, 2003, 50, 1175-1181.	1.3	6
74	Geometric Phase in Open Systems. Physical Review Letters, 2003, 90, 160402.	7.8	276
75	Super-Poissonian intensity fluctuations and correlations between pump and probe fields in Electromagnetically Induced Transparency. Europhysics Letters, 2003, 61, 485-491.	2.0	47
76	Vacuum induced Berry phase: theory and experimental proposal. Journal of Modern Optics, 2003, 50, 1175-1181.	1.3	2
77	Entanglement of the transverse degrees of freedom of the photon. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S437-S442.	1.4	2
78	Probing entanglement in phase space: signature of GHZ states in the Wigner function. Journal of Optics B: Quantum and Semiclassical Optics, 2001, 3, S55-S59.	1.4	11
79	Measurement of the degree of polarization entanglement through position interference. Physical Review A, 2001, 64, .	2.5	31
80	Reconstruction of the state of the radiation field in a cavity through measurements of the outgoing field. Physical Review A, 2001, 63, .	2.5	17
81	Quantum phase gate with a selective interaction. Physical Review A, 2001, 64, .	2.5	30
82	Atomic Talbot interferometry as a sensitive tool for cavity quantum electrodynamics. Physical Review A, 2000, 61, .	2.5	4