

Marcelo França Santos

List of Publications by Year in descending order

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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	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
2	Geometric Phase in Open Systems. Physical Review Letters, 2003, 90, 160402.	7.8	276
3	Direct measurement of finite-time disentanglement induced by a reservoir. Physical Review A, 2006, 73, .	2.5	149
4	Controlling the dynamics of a coupled atom-cavity system by pure dephasing. Physical Review B, 2010, 81, .	3.2	112
5	Experimental observation of weak non-Markovianity. Scientific Reports, 2015, 5, 17520.	3.3	86
6	Extreme nonlocality with one photon. New Journal of Physics, 2011, 13, 053054.	2.9	76
7	Few emitters in a cavity: from cooperative emission to individualization. New Journal of Physics, 2011, 13, 093020.	2.9	70
8	Fabry-Perot Interferometer with Quantum Mirrors: Nonlinear Light Transport and Rectification. Physical Review Letters, 2014, 113, 243601.	7.8	70
9	Quantum phases with differing computational power. Nature Communications, 2012, 3, 812.	12.8	62
10	Environmental correlations and Markovian to non-Markovian transitions in collisional models. Physical Review A, 2014, 90, .	2.5	58
11	Work and quantum phase transitions: Quantum latency. Physical Review E, 2014, 89, 062103.	2.1	51
12	Steady State Entanglement beyond Thermal Limits. Physical Review Letters, 2018, 120, 063604.	7.8	48
13	Super-Poissonian intensity fluctuations and correlations between pump and probe fields in Electromagnetically Induced Transparency. Europhysics Letters, 2003, 61, 485-491.	2.0	47
14	Abrupt changes in the dynamics of quantum disentanglement. Physical Review A, 2007, 75, .	2.5	47
15	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
16	Geometric Phase Induced by a Cyclically Evolving Squeezed Vacuum Reservoir. Physical Review Letters, 2006, 96, 150403.	7.8	43
17	Berry's phase in cavity QED: Proposal for observing an effect of field quantization. Physical Review A, 2003, 67, .	2.5	36
18	Entanglement versus energy in the entanglement transfer problem. Physical Review A, 2006, 74, .	2.5	36

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19	A quantum optical valve in a nonlinear-linear resonators junction. Europhysics Letters, 2014, 106, 54003.	2.0	36
20	Stokes's anti-Stokes correlation in the inelastic scattering of light by matter and generalization of the Bose-Einstein population function. Physical Review B, 2016, 93, .	3.2	36
21	Coherent Quantum Evolution via Reservoir Driven Holonomies. Physical Review Letters, 2006, 96, 020403.	7.8	33
22	Quantum Cheshire Cat as simple quantum interference. New Journal of Physics, 2015, 17, 053042.	2.9	32
23	Measurement of the degree of polarization entanglement through position interference. Physical Review A, 2001, 64, .	2.5	31
24	High Resolution non-Markovianity in NMR. Scientific Reports, 2016, 6, 33945.	3.3	31
25	Quantum phase gate with a selective interaction. Physical Review A, 2001, 64, .	2.5	30
26	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
27	Useful entanglement from the Pauli principle. Physical Review B, 2007, 76, .	3.2	29
28	Coarse graining a non-Markovian collisional model. Physical Review A, 2017, 95, .	2.5	29
29	Experimental simulation of decoherence in photonics qudits. Scientific Reports, 2015, 5, 16049.	3.3	28
30	Temporal Quantum Correlations in Inelastic Light Scattering from Water. Physical Review Letters, 2016, 117, 243603.	7.8	28
31	Probing quantum fluctuation theorems in engineered reservoirs. New Journal of Physics, 2017, 19, 103011.	2.9	28
32	Cooperativity of a few quantum emitters in a single-mode cavity. Physical Review A, 2013, 88, .	2.5	25
33	Quantum rectifier in a one-dimensional photonic channel. Physical Review A, 2016, 93, .	2.5	25
34	Photonic Counterparts of Cooper Pairs. Physical Review Letters, 2017, 119, 193603.	7.8	25
35	Distant entanglement protected through artificially increased local temperature. New Journal of Physics, 2011, 13, 013010.	2.9	23
36	Criteria for two distinguishable fermions to form a boson. Physical Review A, 2011, 84, .	2.5	21

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37	Optimal irreversible stimulated emission. <i>New Journal of Physics</i> , 2012, 14, 083029.	2.9	21
38	Quantum Computing with Incoherent Resources and Quantum Jumps. <i>Physical Review Letters</i> , 2012, 108, 170501.	7.8	19
39	Charging a quantum battery via nonequilibrium heat current. <i>Physical Review E</i> , 2020, 102, 062133.	2.1	19
40	Increasing identical particle entanglement by fuzzy measurements. <i>Physical Review A</i> , 2005, 72, .	2.5	18
41	Observing different quantum trajectories in cavity QED. <i>Europhysics Letters</i> , 2011, 94, 64003.	2.0	18
42	Realistic loophole-free Bell test with atom-photon entanglement. <i>Nature Communications</i> , 2013, 4, 2104.	12.8	18
43	Reconstruction of the state of the radiation field in a cavity through measurements of the outgoing field. <i>Physical Review A</i> , 2001, 63, .	2.5	17
44	Physically realizable entanglement by local continuous measurements. <i>Physical Review A</i> , 2011, 83, .	2.5	17
45	Detection of quantum non-Markovianity close to the Born-Markov approximation. <i>Physical Review A</i> , 2020, 101, .	2.5	17
46	Maximal violations and efficiency requirements for Bell tests with photodetection and homodyne measurements. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 215308.	2.1	16
47	Monitoring stimulated emission at the single-photon level in one-dimensional atoms. <i>Physical Review A</i> , 2012, 85, .	2.5	16
48	Universal optimal broadband photon cloning and entanglement creation in one-dimensional atoms. <i>Physical Review A</i> , 2012, 86, .	2.5	15
49	Protection of quantum information and optimal singlet conversion through higher-dimensional quantum systems and environment monitoring. <i>Physical Review A</i> , 2010, 81, .	2.5	14
50	Probing entanglement in phase space: signature of GHZ states in the Wigner function. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2001, 3, S55-S59.	1.4	11
51	Equilibrium and disorder-induced behavior in quantum light-matter systems. <i>New Journal of Physics</i> , 2012, 14, 043033.	2.9	11
52	Tests of Bell inequality with arbitrarily low photodetection efficiency and homodyne measurements. <i>Physical Review A</i> , 2012, 86, .	2.5	11
53	Steady-state entanglement between distant quantum dots in photonic crystal dimers. <i>Physical Review B</i> , 2016, 94, .	3.2	11
54	Strong Light-Matter Coupling. , 2014, , .		11

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55	Anyons and transmutation of statistics via a vacuum-induced Berry phase. <i>Physical Review A</i> , 2004, 70, .	2.5	10
56	Continuous quantum error correction through local operations. <i>Physical Review A</i> , 2010, 82, .	2.5	10
57	Nonuniversality of entanglement convertibility. <i>Physical Review B</i> , 2014, 89, .	3.2	10
58	Stokes's anti-Stokes correlated photon properties akin to photonic Cooper pairs. <i>Physical Review B</i> , 2019, 99, .	3.2	9
59	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
60	Vacuum induced berry phase: Theory and experimental proposal. <i>Journal of Modern Optics</i> , 2003, 50, 1175-1181.	1.3	6
61	Laser from a many-body correlated medium. <i>Physical Review B</i> , 2016, 93, .	3.2	6
62	Continuous monitoring of energy in quantum open systems. <i>Physical Review A</i> , 2019, 99, .	2.5	5
63	Effective Hamiltonian for Stokes's anti-Stokes pair generation with pump and probe polarized modes. <i>Physical Review B</i> , 2020, 102, .	3.2	5
64	Atomic Talbot interferometry as a sensitive tool for cavity quantum electrodynamics. <i>Physical Review A</i> , 2000, 61, .	2.5	4
65	Quantifying the decay of quantum properties in single-mode states. <i>Optics Communications</i> , 2008, 281, 4696-4704.	2.1	4
66	Physical Properties of Photonic Cooper Pairs Generated via Correlated Stokes's anti-Stokes Raman Scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900218.	1.5	4
67	Maximally efficient quantum thermal machines fueled by nonequilibrium steady states. <i>Physical Review A</i> , 2021, 103, .	2.5	4
68	Accessibility of physical states and non-uniqueness of entanglement measure. <i>Journal of Physics A</i> , 2004, 37, 5887-5893.	1.6	3
69	Emergence of classicality in small-number entangled systems. <i>Physical Review A</i> , 2009, 79, .	2.5	3
70	Stokes's anti-Stokes light-scattering process: A photon-wave-function approach. <i>Physical Review A</i> , 2020, 102, .	2.5	3
71	Entanglement of the transverse degrees of freedom of the photon. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002, 4, S437-S442.	1.4	2
72	Geometrically induced singular behavior of entanglement. <i>Physical Review A</i> , 2008, 78, .	2.5	2

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73	Vacuum induced Berry phase: theory and experimental proposal. Journal of Modern Optics, 2003, 50, 1175-1181.	1.3	2
74	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
75	Photonic phase transitions, spin models, and QIP in coupled cavity arrays. , 2007, , .		1
76	Entanglement evolution of bipartite n -dimensional systems. Journal of Physics: Conference Series, 2007, 84, 012011.	0.4	0
77	Theoretical Study of Optical Microcavities Coupled by a Modulated Bragg Mirror. , 2011, , .		0
78	Experimental observation of transition between strong and weak non-Markovianity. , 2015, , .		0
79	Nonequilibrium localization and the interplay between disorder and interactions. Journal of Physics Condensed Matter, 2016, 28, 195602.	1.8	0
80	Arbitrary unitary operations in confined harmonic oscillators. , 2007, , .		0
81	Entanglement dynamics and geometry of quantum states: calculations and simulations. , 2008, , .		0
82	Quantum Correlations in the Stokes-anti-Stokes Raman Scattering: Photonic Cooper Pairs. , 2019, , .		0