Francesco Plastina

List of Publications by Year
in descending order

78 papers	3,037 citations	136740 32 h-index	161609 54 g-index
78 all docs	78 docs citations	78 times ranked	1840 citing authors

#	Article	IF	Citations
1	Protecting Entanglement via the Quantum Zeno Effect. Physical Review Letters, 2008, 100, 090503.	2.9	421
2	Dynamics of entanglement in one-dimensional spin systems. Physical Review A, 2004, 69, .	1.0	253
3	Geometrical characterization of non-Markovianity. Physical Review A, 2013, 88, .	1.0	212
4	Irreversible Work and Inner Friction in Quantum Thermodynamic Processes. Physical Review Letters, 2014, 113, 260601.	2.9	117
5	Non-Markovianity, Loschmidt echo, and criticality: A unified picture. Physical Review A, 2012, 85, .	1.0	104
6	Communicating Josephson qubits. Physical Review B, 2003, 67, .	1.1	102
7	Daemonic ergotropy: enhanced work extraction from quantum correlations. Npj Quantum Information, 2017, 3, .	2.8	89
8	Memory-keeping effects and forgetfulness in the dynamics of a qubit coupled to a spin chain. Physical Review A, 2011, 83, .	1.0	88
9	Role of coherence in the nonequilibrium thermodynamics of quantum systems. Physical Review E, 2019, 99, 042105.	0.8	87
10	Quantum Coherence and Ergotropy. Physical Review Letters, 2020, 125, 180603.	2.9	77
11	Spontaneous synchronization and quantum correlation dynamics of open spin systems. Physical Review A, 2013, 88, .	1.0	72
12	Routing quantum information in spin chains. Physical Review A, 2013, 87, .	1.0	66
13	Quantum-state transfer via resonant tunneling through local-field-induced barriers. Physical Review A, 2013, 87, .	1.0	64
14	Optimal Work Extraction and Thermodynamics of Quantum Measurements and Correlations. Physical Review Letters, 2018, 121, 120602.	2.9	63
15	Global quantum correlations in finite-size spin chains. New Journal of Physics, 2013, 15, 043033.	1.2	59
16	Quantum Otto cycle with inner friction: finite-time and disorder effects. New Journal of Physics, 2015, 17, 075007.	1.2	52
17	Propagation of nonclassical correlations across a quantum spin chain. Physical Review A, 2011, 84, .	1.0	49
18	Local Control of Entanglement in a Spin Chain. Physical Review Letters, 2007, 99, 177210.	2.9	48

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19	Transfer of arbitrary two-qubit states via a spin chain. Physical Review A, 2015, 91, .	1.0	48
20	Orthogonality Catastrophe and Decoherence in a Trapped-Fermion Environment. Physical Review Letters, 2013, 111, 165303.	2.9	45
21	Off-resonant entanglement generation in a lossy cavity. Physical Review A, 2009, 79, .	1.0	43
22	Scaling of Berry's phase close to the Dicke quantum phase transition. Europhysics Letters, 2006, 76, 182-188.	0.7	42
23	Scaling behavior of the adiabatic Dicke model. Physical Review A, 2006, 74, .	1.0	40
24	Statistics of the work distribution for a quenched Fermi gas. New Journal of Physics, 2014, 16, 045013.	1.2	40
25	Bang-bang control of a qubit coupled to a quantum critical spin bath. Physical Review A, 2008, 77, .	1.0	39
26	Role of environmental correlations in the non-Markovian dynamics of a spin system. Physical Review A, 2011, 84, .	1.0	38
27	Non-equilibrium steady-states of memoryless quantum collision models. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126576.	0.9	36
28	Dicke model and environment-induced entanglement in ion-cavity QED. Physical Review A, 2009, 80, .	1.0	35
29	Quantum instability and edge entanglement in the quasi-long-range order. Physical Review A, 2009, 79, .	1.0	35
30	TRANSPORT OF QUANTUM CORRELATIONS ACROSS A SPIN CHAIN. International Journal of Modern Physics B, 2013, 27, 1345035.	1.0	34
31	Shot Noise for Resonant Cooper Pair Tunneling. Physical Review Letters, 2001, 87, 116601.	2.9	32
32	Entanglement localization by a single defect in a spin chain. Physical Review A, 2006, 74, .	1.0	32
33	Quantum Zeno and anti-Zeno effects on quantum and classical correlations. Physical Review A, 2010, 82, .	1.0	32
34	Tuning non-Markovianity by spin-dynamics control. Physical Review A, 2013, 87, .	1.0	28
35	Macroscopic entanglement in Josephson nanocircuits. Physical Review B, 2001, 64, .	1.1	26
36	Competition between memory-keeping and memory-erasing decoherence channels. Physical Review A, 2014, 90, .	1.0	24

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37	Entanglement in a spin system with inverse square statistical interaction. New Journal of Physics, 2010, 12, 025022.	1.2	22
38	Momentum-resolved and correlation spectroscopy using quantum probes. Physical Review A, 2017, 95, .	1.0	22
39	Many-qubit quantum state transfer via spin chains. Physica Scripta, 2015, T165, 014036.	1.2	21
40	Manipulating and protecting entanglement by means of spin environments. New Journal of Physics, 2010, 12, 083046.	1.2	20
41	Entanglement of a qubit coupled to a resonator in the adiabatic regime. Physical Review A, 2006, 73, .	1.0	19
42	Quantum Critical Scaling under Periodic Driving. Scientific Reports, 2017, 7, 5672.	1.6	19
43	Discording Power of Quantum Evolutions. Physical Review Letters, 2013, 110, 010501.	2.9	18
44	Statistics of work and orthogonality catastrophe in discrete level systems: an application to fullerene molecules and ultra-cold trapped Fermi gases. Beilstein Journal of Nanotechnology, 2015, 6, 755-766.	1.5	15
45	Bose-Hubbard lattice as a controllable environment for open quantum systems. Physical Review A, 2018, 97, .	1.0	15
46	Staggered magnetization and entanglement enhancement by magnetic impurities in aS=12spin chain. Physical Review A, 2008, 77, .	1.0	14
47	Finite-size behavior of quantum collective spin systems. Physical Review A, 2010, 81, .	1.0	14
48	Many body shake up in X-ray photoemission from bundles of lithium-intercalated single-walled carbon nanotubes. Surface Science, 2007, 601, 2805-2809.	0.8	13
49	Signatures of the single-particle mobility edge in the ground-state properties of Tonks-Girardeau and noninteracting Fermi gases in a bichromatic potential. Physical Review A, 2017, 95, .	1.0	13
50	Suppression of decay via magnetic coherence in aV-type three-level system. Physical Review A, 2000, 62, .	1.0	12
51	Dynamics of atomâ€“atom correlations in the Fermi problem. New Journal of Physics, 2012, 14, 103010.	1.2	12
52	Local quench, Majorana zero modes, and disturbance propagation in the Ising chain. Physical Review B, 2016, 94, .	1.1	12
53	Effective cutting of a quantum spin chain by bond impurities. Physical Review A, 2013, 88, .	1.0	10
54	Emergence of anomalous dynamics from the underlying singular continuous spectrum in interacting many-body systems. Physical Review B, 2020, 101, .	1.1	10

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55	Quantum interference in the spontaneous emission spectrum of a driven three-level system in cascade configuration. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 236, 16-22.	0.9	9
56	On interference induced non-decaying states. Optics Communications, 1999, 161, 236-242.	1.0	9
57	Quantum Information Storage in the Localized State of a Spin Chain. Open Systems and Information Dynamics, 2007, 14, 41-51.	0.5	7
58	Universal scaling for the quantum Ising chain with a classical impurity. Physical Review B, 2017, 96, .	1.1	7
59	The Role of Quantum Work Statistics in Many-Body Physics. Fundamental Theories of Physics, 2018, , 317-336.	0.1	7
60	Exact Spectral Function of a Tonks-Girardeau Gas in a Lattice. Physical Review Letters, 2021, 126, 065301.	2.9	6
61	Continuous measurements of coherent quantum oscillations in two qubits. Physical Review B, 2005, 71, .	1.1	5
62	Coreâ€“hole effects in fullerene molecules and small-diameter conducting nanotubes: a density functional theory study. Journal of Physics Condensed Matter, 2013, 25, 115301.	0.7	5
63	Spin wave contribution to entanglement in Heisenberg models. New Journal of Physics, 2004, 6, 124-124.	1.2	4
64	Interference in correlated spontaneous emission of a driven three-level system. Optics Communications, 1999, 160, 175-183.	1.0	3
65	Spontaneous emission from a four-level $mathsf{Lambdambox{-}V}$ system. European Physical Journal D, 1999, 6, 407-413.	0.6	3
66	Entanglement sharing inEâŠ—ÏµJahn-Teller model in the presence of a magnetic field. Physical Review A, 2007, 76, .	1.0	3
67	ENTANGLEMENT MODULATION IN A SPIN CHAIN BY A LOCAL IMPURITY. International Journal of Quantum Information, 2008, 06, 567-573.	0.6	3
68	Decoherence in a Fermion Environment: Non-Markovianity and Orthogonality Catastrophe. Open Systems and Information Dynamics, 2013, 20, 1340005.	0.5	3
69	Out of equilibrium thermodynamics of quantum harmonic chains. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 104014.	0.9	3
70	NON-MARKOVIAN DYNAMICS OF SYSTEM-RESERVOIR ENTANGLEMENT. International Journal of Quantum Information, 2011, 09, 1715-1726.	0.6	2
71	Quantum Zeno-type effect and non-Markovianity in a three-level system. Scientific Reports, 2016, 6, 39061.	1.6	2
72	Radiation reaction and quantum interference in emission processes. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 140-143.	1.4	1

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73	Entanglement detection in Josephson nanocircuits. Journal of Modern Optics, 2002, 49, 1389-1397.	0.6	1
74	Off-resonant quantum Zeno and anti-Zeno effects on entanglement. Physica Scripta, 2010, T140, 014044.	1.2	1
75	Quantum interference in double photon emission. Journal of Modern Optics, 2002, 49, 97-109.	0.6	0
76	Entanglement in one-dimensional spin systems. , 2004, 5436, 150.		0
77	Storage and transmission of entanglement in a spin chain. , 2009, , .		0
78	Cavity-induced quantum cooperative phenomena. Physica Scripta, 2010, T140, 014008.	1.2	0