

Francesco Plastina

List of Publications by Year in descending order

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78
papers

3,037
citations

136740

32
h-index

161609

54
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78
all docs

78
docs citations

78
times ranked

1840
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact Spectral Function of a Tonks-Girardeau Gas in a Lattice. <i>Physical Review Letters</i> , 2021, 126, 065301.	2.9	6
2	Quantum Coherence and Ergotropy. <i>Physical Review Letters</i> , 2020, 125, 180603.	2.9	77
3	Emergence of anomalous dynamics from the underlying singular continuous spectrum in interacting many-body systems. <i>Physical Review B</i> , 2020, 101, .	1.1	10
4	Non-equilibrium steady-states of memoryless quantum collision models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126576.	0.9	36
5	Out of equilibrium thermodynamics of quantum harmonic chains. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 104014.	0.9	3
6	Role of coherence in the nonequilibrium thermodynamics of quantum systems. <i>Physical Review E</i> , 2019, 99, 042105.	0.8	87
7	Bose-Hubbard lattice as a controllable environment for open quantum systems. <i>Physical Review A</i> , 2018, 97, .	1.0	15
8	Optimal Work Extraction and Thermodynamics of Quantum Measurements and Correlations. <i>Physical Review Letters</i> , 2018, 121, 120602.	2.9	63
9	The Role of Quantum Work Statistics in Many-Body Physics. <i>Fundamental Theories of Physics</i> , 2018, , 317-336.	0.1	7
10	Universal scaling for the quantum Ising chain with a classical impurity. <i>Physical Review B</i> , 2017, 96, .	1.1	7
11	Momentum-resolved and correlation spectroscopy using quantum probes. <i>Physical Review A</i> , 2017, 95, .	1.0	22
12	Signatures of the single-particle mobility edge in the ground-state properties of Tonks-Girardeau and noninteracting Fermi gases in a bichromatic potential. <i>Physical Review A</i> , 2017, 95, .	1.0	13
13	Daemonic ergotropy: enhanced work extraction from quantum correlations. <i>Npj Quantum Information</i> , 2017, 3, .	2.8	89
14	Quantum Critical Scaling under Periodic Driving. <i>Scientific Reports</i> , 2017, 7, 5672.	1.6	19
15	Quantum Zeno-type effect and non-Markovianity in a three-level system. <i>Scientific Reports</i> , 2016, 6, 39061.	1.6	2
16	Local quench, Majorana zero modes, and disturbance propagation in the Ising chain. <i>Physical Review B</i> , 2016, 94, .	1.1	12
17	Many-qubit quantum state transfer via spin chains. <i>Physica Scripta</i> , 2015, T165, 014036.	1.2	21
18	Statistics of work and orthogonality catastrophe in discrete level systems: an application to fullerene molecules and ultra-cold trapped Fermi gases. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 755-766.	1.5	15

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19	Transfer of arbitrary two-qubit states via a spin chain. <i>Physical Review A</i> , 2015, 91, .	1.0	48
20	Quantum Otto cycle with inner friction: finite-time and disorder effects. <i>New Journal of Physics</i> , 2015, 17, 075007.	1.2	52
21	Irreversible Work and Inner Friction in Quantum Thermodynamic Processes. <i>Physical Review Letters</i> , 2014, 113, 260601.	2.9	117
22	Statistics of the work distribution for a quenched Fermi gas. <i>New Journal of Physics</i> , 2014, 16, 045013.	1.2	40
23	Competition between memory-keeping and memory-erasing decoherence channels. <i>Physical Review A</i> , 2014, 90, .	1.0	24
24	Discarding Power of Quantum Evolutions. <i>Physical Review Letters</i> , 2013, 110, 010501.	2.9	18
25	Orthogonality Catastrophe and Decoherence in a Trapped-Fermion Environment. <i>Physical Review Letters</i> , 2013, 111, 165303.	2.9	45
26	Routing quantum information in spin chains. <i>Physical Review A</i> , 2013, 87, .	1.0	66
27	Tuning non-Markovianity by spin-dynamics control. <i>Physical Review A</i> , 2013, 87, .	1.0	28
28	Global quantum correlations in finite-size spin chains. <i>New Journal of Physics</i> , 2013, 15, 043033.	1.2	59
29	TRANSPORT OF QUANTUM CORRELATIONS ACROSS A SPIN CHAIN. <i>International Journal of Modern Physics B</i> , 2013, 27, 1345035.	1.0	34
30	Spontaneous synchronization and quantum correlation dynamics of open spin systems. <i>Physical Review A</i> , 2013, 88, .	1.0	72
31	Effective cutting of a quantum spin chain by bond impurities. <i>Physical Review A</i> , 2013, 88, .	1.0	10
32	Core-hole effects in fullerene molecules and small-diameter conducting nanotubes: a density functional theory study. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 115301.	0.7	5
33	Decoherence in a Fermion Environment: Non-Markovianity and Orthogonality Catastrophe. <i>Open Systems and Information Dynamics</i> , 2013, 20, 1340005.	0.5	3
34	Quantum-state transfer via resonant tunneling through local-field-induced barriers. <i>Physical Review A</i> , 2013, 87, .	1.0	64
35	Geometrical characterization of non-Markovianity. <i>Physical Review A</i> , 2013, 88, .	1.0	212
36	Dynamics of atom-atom correlations in the Fermi problem. <i>New Journal of Physics</i> , 2012, 14, 103010.	1.2	12

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37	Non-Markovianity, Loschmidt echo, and criticality: A unified picture. <i>Physical Review A</i> , 2012, 85, .	1.0	104
38	Memory-keeping effects and forgetfulness in the dynamics of a qubit coupled to a spin chain. <i>Physical Review A</i> , 2011, 83, .	1.0	88
39	Propagation of nonclassical correlations across a quantum spin chain. <i>Physical Review A</i> , 2011, 84, .	1.0	49
40	Role of environmental correlations in the non-Markovian dynamics of a spin system. <i>Physical Review A</i> , 2011, 84, .	1.0	38
41	NON-MARKOVIAN DYNAMICS OF SYSTEM-RESERVOIR ENTANGLEMENT. <i>International Journal of Quantum Information</i> , 2011, 09, 1715-1726.	0.6	2
42	Cavity-induced quantum cooperative phenomena. <i>Physica Scripta</i> , 2010, T140, 014008.	1.2	0
43	Quantum Zeno and anti-Zeno effects on quantum and classical correlations. <i>Physical Review A</i> , 2010, 82, .	1.0	32
44	Finite-size behavior of quantum collective spin systems. <i>Physical Review A</i> , 2010, 81, .	1.0	14
45	Entanglement in a spin system with inverse square statistical interaction. <i>New Journal of Physics</i> , 2010, 12, 025022.	1.2	22
46	Manipulating and protecting entanglement by means of spin environments. <i>New Journal of Physics</i> , 2010, 12, 083046.	1.2	20
47	Off-resonant quantum Zeno and anti-Zeno effects on entanglement. <i>Physica Scripta</i> , 2010, T140, 014044.	1.2	1
48	Dicke model and environment-induced entanglement in ion-cavity QED. <i>Physical Review A</i> , 2009, 80, .	1.0	35
49	Quantum instability and edge entanglement in the quasi-long-range order. <i>Physical Review A</i> , 2009, 79, .	1.0	35
50	Storage and transmission of entanglement in a spin chain. , 2009, , .		0
51	Off-resonant entanglement generation in a lossy cavity. <i>Physical Review A</i> , 2009, 79, .	1.0	43
52	Protecting Entanglement via the Quantum Zeno Effect. <i>Physical Review Letters</i> , 2008, 100, 090503.	2.9	421
53	ENTANGLEMENT MODULATION IN A SPIN CHAIN BY A LOCAL IMPURITY. <i>International Journal of Quantum Information</i> , 2008, 06, 567-573.	0.6	3
54	Bang-bang control of a qubit coupled to a quantum critical spin bath. <i>Physical Review A</i> , 2008, 77, .	1.0	39

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55	Staggered magnetization and entanglement enhancement by magnetic impurities in a $S=1/2$ spin chain. <i>Physical Review A</i> , 2008, 77, .	1.0	14
56	Entanglement sharing in E \otimes S-Jahn-Teller model in the presence of a magnetic field. <i>Physical Review A</i> , 2007, 76, .	1.0	3
57	Local Control of Entanglement in a Spin Chain. <i>Physical Review Letters</i> , 2007, 99, 177210.	2.9	48
58	Many body shake up in X-ray photoemission from bundles of lithium-intercalated single-walled carbon nanotubes. <i>Surface Science</i> , 2007, 601, 2805-2809.	0.8	13
59	Quantum Information Storage in the Localized State of a Spin Chain. <i>Open Systems and Information Dynamics</i> , 2007, 14, 41-51.	0.5	7
60	Entanglement localization by a single defect in a spin chain. <i>Physical Review A</i> , 2006, 74, .	1.0	32
61	Scaling of Berry's phase close to the Dicke quantum phase transition. <i>Europhysics Letters</i> , 2006, 76, 182-188.	0.7	42
62	Entanglement of a qubit coupled to a resonator in the adiabatic regime. <i>Physical Review A</i> , 2006, 73, .	1.0	19
63	Scaling behavior of the adiabatic Dicke model. <i>Physical Review A</i> , 2006, 74, .	1.0	40
64	Continuous measurements of coherent quantum oscillations in two qubits. <i>Physical Review B</i> , 2005, 71, .	1.1	5
65	Entanglement in one-dimensional spin systems. , 2004, 5436, 150.		0
66	Dynamics of entanglement in one-dimensional spin systems. <i>Physical Review A</i> , 2004, 69, .	1.0	253
67	Spin wave contribution to entanglement in Heisenberg models. <i>New Journal of Physics</i> , 2004, 6, 124-124.	1.2	4
68	Communicating Josephson qubits. <i>Physical Review B</i> , 2003, 67, .	1.1	102
69	Quantum interference in double photon emission. <i>Journal of Modern Optics</i> , 2002, 49, 97-109.	0.6	0
70	Entanglement detection in Josephson nanocircuits. <i>Journal of Modern Optics</i> , 2002, 49, 1389-1397.	0.6	1
71	Macroscopic entanglement in Josephson nanocircuits. <i>Physical Review B</i> , 2001, 64, .	1.1	26
72	Shot Noise for Resonant Cooper Pair Tunneling. <i>Physical Review Letters</i> , 2001, 87, 116601.	2.9	32

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73	Radiation reaction and quantum interference in emission processes. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 140-143.	1.4	1
74	Suppression of decay via magnetic coherence in aV-type three-level system. Physical Review A, 2000, 62, .	1.0	12
75	Interference in correlated spontaneous emission of a driven three-level system. Optics Communications, 1999, 160, 175-183.	1.0	3
76	On interference induced non-decaying states. Optics Communications, 1999, 161, 236-242.	1.0	9
77	Spontaneous emission from a four-level Λ system. European Physical Journal D, 1999, 6, 407-413.	0.6	3
78	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