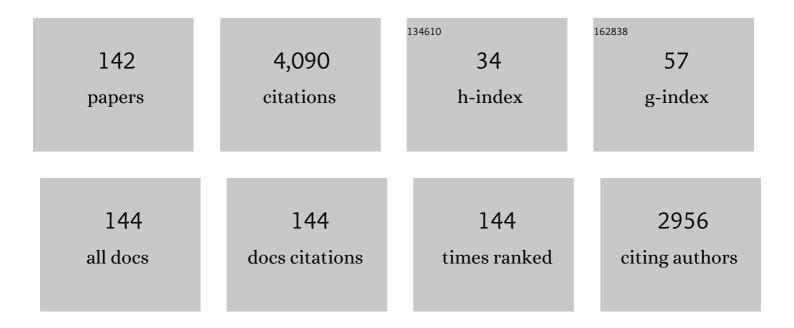
Giovanna Morigi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Entanglement in the quantum Game of Life. Physical Review A, 2022, 105, .	1.0	7
2	Physarum-inspired multi-commodity flow dynamics. Theoretical Computer Science, 2022, , .	0.5	6
3	Reservoir-engineering shortcuts to adiabaticity. Physical Review Research, 2022, 4, .	1.3	3
4	Finite-temperature spectrum at the symmetry-breaking linear to zigzag transition. Physical Review B, 2021, 103, .	1.1	6
5	Ergodicity breaking with long-range cavity-induced quasiperiodic interactions. Physical Review B, 2021, 103, .	1.1	8
6	Interplay of periodic dynamics and noise: Insights from a simple adaptive system. Physical Review E, 2021, 104, 054215.	0.8	3
7	Retrieval of single photons from solid-state quantum transducers. Physical Review A, 2021, 104, .	1.0	1
8	Master equation for multilevel interference in a superradiant medium. Physical Review A, 2020, 102, .	1.0	2
9	Edge states of the long-range Kitaev chain: An analytical study. Physical Review B, 2020, 102, .	1.1	17
10	Staggered superfluid phases of dipolar bosons in two-dimensional square lattices. Physical Review B, 2020, 102, .	1.1	19
11	Superfluid phases induced by dipolar interactions. Physical Review B, 2020, 101, .	1.1	14
12	Static Kinks in Chains of Interacting Atoms. Condensed Matter, 2020, 5, 35.	0.8	3
13	Dynamics of entanglement creation between two spins coupled to a chain. European Physical Journal Plus, 2020, 135, 1.	1.2	2
14	Superradiant optomechanical phases of cold atomic gases in optical resonators. Physical Review A, 2020, 101, .	1.0	9
15	Dynamical Phase Transitions to Optomechanical Superradiance. Physical Review Letters, 2019, 123, 053601.	2.9	18
16	Sound of an axon's growth. Physical Review E, 2019, 99, 050401.	0.8	5
17	Mean-field phase diagram of the extended Bose-Hubbard model of many-body cavity quantum electrodynamics. Physical Review A, 2019, 99, .	1.0	10
18	Universal dynamical scaling of long-range topological superconductors. Physical Review B, 2019, 100, .	1.1	17

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19	Weak coherent pulses for single-photon quantum memories. Physica Scripta, 2019, 94, 014012.	1.2	3
20	Many-body localization in presence of cavity mediated long-range interactions. SciPost Physics, 2019, 7, .	1.5	32
21	Quenches across the self-organization transition in multimode cavities. New Journal of Physics, 2018, 20, 025004.	1.2	23
22	Neural network operations and Susuki–Trotter evolution of neural network states. International Journal of Quantum Information, 2018, 16, 1840008.	0.6	15
23	Optimal storage of a single photon by a single intra-cavity atom. New Journal of Physics, 2018, 20, 105009.	1.2	31
24	Dynamical Critical Scaling of Long-Range Interacting Quantum Magnets. Physical Review Letters, 2018, 121, 240403.	2.9	48
25	Single-particle localization in dynamical potentials. Physical Review A, 2018, 98, .	1.0	12
26	Phases of cold atoms interacting via photon-mediated long-range forces. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 064002.	0.9	10
27	Enhanced Second-Order Nonlinearity for THz Generation by Resonant Interaction of Exciton-Polariton Rabi Oscillations with Optical Phonons. Physical Review Letters, 2017, 119, 127401.	2.9	9
28	Spectral properties of single photons from quantum emitters. Physical Review A, 2017, 96, .	1.0	10
29	Semiclassical theory of synchronization-assisted cooling. Physical Review A, 2017, 95, .	1.0	15
30	Multimode Bose-Hubbard model for quantum dipolar gases in confined geometries. Physical Review A, 2017, 95, .	1.0	5
31	Ultracold bosons with cavity-mediated long-range interactions: A local mean-field analysis of the phase diagram. Physical Review A, 2016, 94, .	1.0	44
32	Localization transition in the presence of cavity backaction. Physical Review A, 2016, 94, .	1.0	16
33	Mean-field theory of atomic self-organization in optical cavities. Physical Review A, 2016, 94, .	1.0	10
34	Buckling Transitions and Clock Order of Two-Dimensional Coulomb Crystals. Physical Review X, 2016, 6, .	2.8	7
35	Optomechanical many-body cooling to the ground state using frustration. Physical Review A, 2016, 94,	1.0	11
36	Dissipation-Assisted Prethermalization in Long-Range Interacting Atomic Ensembles. Physical Review Letters, 2016, 117, 083001.	2.9	21

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37	Supercooling of Atoms in an Optical Resonator. Physical Review Letters, 2016, 116, 153002.	2.9	39
38	Crossover from Classical to Quantum Kibble-Zurek Scaling. Physical Review Letters, 2016, 116, 225701.	2.9	30
39	Master equation for high-precision spectroscopy. Physical Review A, 2016, 94, .	1.0	9
40	Laser and cavity cooling of a mechanical resonator with a nitrogen-vacancy center in diamond. Physical Review A, 2016, 94, .	1.0	4
41	Thermodynamics and dynamics of atomic self-organization in an optical cavity. Physical Review A, 2015, 92, .	1.0	17
42	Dissipative Quantum Control of a Spin Chain. Physical Review Letters, 2015, 115, 200502.	2.9	43
43	Nanofriction in Cavity Quantum Electrodynamics. Physical Review Letters, 2015, 115, 233602.	2.9	22
44	Interfacing microwave qubits and optical photons via spin ensembles. Physical Review A, 2015, 91, .	1.0	44
45	Stationary entanglement of photons and atoms in a high-finesse resonator. Physical Review A, 2014, 89,	1.0	4
46	<i>Ab initio</i> characterization of the quantum linear-zigzag transition using density matrix renormalization group calculations. Physical Review B, 2014, 89, .	1.1	13
47	Structural transitions of nearly second order in classical dipolar gases. Physical Review A, 2014, 90, .	1.0	5
48	Electromagnetically-induced-transparency control of single-atom motion in an optical cavity. Physical Review A, 2014, 89, .	1.0	32
49	Arbitrary-quantum-state preparation of a harmonic oscillator via optimal control. Physical Review A, 2014, 90, .	1.0	23
50	Prethermalization of Atoms Due to Photon-Mediated Long-Range Interactions. Physical Review Letters, 2014, 113, 203002.	2.9	44
51	Quantum reservoirs with ion chains. Physical Review A, 2014, 90, .	1.0	12
52	Interfacing Superconducting Qubits and Telecom Photons via a Rare-Earth-Doped Crystal. Physical Review Letters, 2014, 113, 063603.	2.9	118
53	From classical to quantum criticality. Physical Review B, 2014, 89, .	1.1	16
54	Quantum phases of incommensurate optical lattices due to cavity backaction. Physical Review A, 2013, 88, .	1.0	19

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55	Single-photon frequency conversion in nonlinear crystals. Physical Review A, 2013, 88, .	1.0	6
56	Bose-Glass Phases of Ultracold Atoms due to Cavity Backaction. Physical Review Letters, 2013, 110, 075304.	2.9	81
57	Full characterization of the quantum linearâ€zigzag transition in atomic chains. Annalen Der Physik, 2013, 525, 827-832.	0.9	19
58	Seeding patterns for self-organization of photons and atoms. Physical Review A, 2013, 88, .	1.0	13
59	Ion chains in high-finesse cavities. Physical Review A, 2013, 87, .	1.0	9
60	Entanglement detection by Bragg scattering. Physical Review A, 2013, 87, .	1.0	5
61	Cooling of atomic ensembles in optical cavities: Semiclassical limit. Physical Review A, 2013, 88, .	1.0	25
62	Stability and dynamics of ion rings in linear multipole traps. Physical Review A, 2013, 87, .	1.0	12
63	Quantum quenches of ion Coulomb crystals across structural instabilities. II. Thermal effects. Physical Review A, 2013, 87, .	1.0	4
64	Entangling two defects via a surrounding crystal. Physical Review A, 2013, 87, .	1.0	14
65	Generation of two-mode entangled states by quantum reservoir engineering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 224001.	0.6	21
66	Low-Noise Frequency Down-Conversion at the Single Photon Level. , 2012, , .		0
67	Quantum quenches of ion Coulomb crystals across structural instabilities. Physical Review A, 2012, 86, .	1.0	25
68	Cavity cooling of a trapped atom using electromagnetically induced transparency. New Journal of Physics, 2012, 14, 023002.	1.2	33
69	Cooling the motion of a trapped atom with a cavity field. Physical Review A, 2012, 86, .	1.0	14
70	Statistical mechanics of entanglement mediated by a thermal reservoir. Physical Review A, 2012, 85, .	1.0	12
71	Structural Transitions of Ion Strings in Quantum Potentials. Physical Review Letters, 2012, 109, 053003.	2.9	26
72	Homodyne detection of matter-wave fields. Physical Review A, 2012, 85, .	1.0	4

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73	Quantum superpositions of crystalline structures. Physical Review A, 2011, 84, .	1.0	27
74	Quantum light by atomic arrays in optical resonators. Physical Review A, 2011, 84, .	1.0	15
75	Trapping ions with lasers. New Journal of Physics, 2011, 13, 043019.	1.2	27
76	Cavity sideband cooling of trapped molecules. Physical Review A, 2011, 84, .	1.0	10
77	Quantum-noise quenching in atomic tweezers. Physical Review A, 2011, 83, .	1.0	4
78	Quantum structural phase transition in chains of interacting atoms. Physical Review A, 2011, 83, .	1.0	33
79	Quantum Zigzag Transition in Ion Chains. Physical Review Letters, 2011, 106, 010401.	2.9	87
80	Ground-state-cooling vibrations of suspended carbon nanotubes with constant electron current. Physical Review B, 2010, 81, .	1.1	23
81	Engineering atomic quantum reservoirs for photons. Physical Review A, 2010, 81, .	1.0	66
82	Light scattering by ultracold atoms in an optical lattice. Physical Review A, 2010, 81, .	1.0	26
83	Two-photon lasing by a single quantum dot in a high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi>microcavity. Physical Review B, 2010, 81, .</mml:math 	1.1	71
84	Structural Defects in Ion Chains by Quenching the External Potential: The Inhomogeneous Kibble-Zurek Mechanism. Physical Review Letters, 2010, 105, 075701.	2.9	120
85	Continuous-variable entanglement purification with atomic systems. Journal of the Optical Society of America B: Optical Physics, 2010, 27, A198.	0.9	5
86	Quantum Optical Information Technologies. Journal of the Optical Society of America B: Optical Physics, 2010, 27, A233.	0.9	0
87	Quantum Optical Information Technologies. Journal of the Optical Society of America B: Optical Physics, 2010, 27, QOIT1.	0.9	Ο
88	Quantum ground state of self-organized atomic crystals in optical resonators. Physical Review A, 2010, 81, .	1.0	71
89	Spontaneous nucleation of structural defects in inhomogeneous ion chains. New Journal of Physics, 2010, 12, 115003.	1.2	72
90	Frequency Down-Conversion of Single Photons into the Telecom Band. , 2010		0

90 Frequency Down-Conversion of Single Photons into the Telecom Band. , 2010, , .

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91	Cooling Carbon Nanotubes to the Phononic Ground State with a Constant Electron Current. Physical Review Letters, 2009, 102, 096804.	2.9	77
92	Cavity-enhanced sideband cooling of molecules to the ground state of a harmonic trap. , 2009, , .		0
93	Photonic spectrum of bichromatic optical lattices. Physical Review A, 2009, 79, .	1.0	11
94	Thermal and quantum fluctuations in chains of ultracold polar molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 154026.	0.6	17
95	Crystallization of strongly interacting photons in a nonlinear optical fibre. Nature Physics, 2008, 4, 884-889.	6.5	170
96	Ground state of low-dimensional dipolar gases: Linear and zigzag chains. Physical Review A, 2008, 78, .	1.0	34
97	Structural phase transitions in low-dimensional ion crystals. Physical Review B, 2008, 77, .	1.1	130
98	Long-range interactions in cold atomic systems: A foreword. AIP Conference Proceedings, 2008, , .	0.3	2
99	Strongly Correlated Ion Coulomb Systems. AIP Conference Proceedings, 2008, , .	0.3	1
100	Dipolar interaction in ultra-cold atomic gases. AIP Conference Proceedings, 2008, , .	0.3	29
101	Quantum stability of Mott-insulator states of ultracold atoms in optical resonators. New Journal of Physics, 2008, 10, 045002.	1.2	57
102	Time-separated entangled light pulses from a single-atom emitter. New Journal of Physics, 2008, 10, 033025.	1.2	15
103	Entanglement of distant atoms by projective measurement: the role of detection efficiency. New Journal of Physics, 2008, 10, 103003.	1.2	16
104	Ramsey interferometry with a spin embedded in a Coulomb chain. Physical Review A, 2008, 78, .	1.0	26
105	Cold Fermi atomic gases in a pumped optical resonator. Physical Review A, 2008, 78, .	1.0	35
106	Photon-mediated interaction between two distant atoms. Physical Review A, 2008, 78, .	1.0	33
107	Mott-Insulator States of Ultracold Atoms in Optical Resonators. Physical Review Letters, 2008, 100, 050401.	2.9	136

Dynamics of cavity cooling of trapped atoms. , 2007, , .

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109	Two-photon and electromagnetically-induced-transparency-assisted Doppler cooling in a three-level cascade system. Physical Review A, 2007, 75, .	1.0	17
110	Nonlinear optics with two trapped atoms. Physical Review A, 2007, 76, .	1.0	23
111	Cavity cooling of internal and external degrees of freedom of molecules. , 2007, , .		0
112	Cavity Cooling of Internal Molecular Motion. Physical Review Letters, 2007, 99, 073001.	2.9	67
113	Generation of Einstein-Podolsky-Rosen-Entangled Radiation through an Atomic Reservoir. Physical Review Letters, 2007, 98, 240401.	2.9	130
114	Ab initio based calculations of cavity cooling including the ro-vibrational modes of the OH radical. , 2007, , .		0
115	Resonance fluorescence of a cold atom in a high-finesse resonator. Physical Review A, 2007, 76, .	1.0	14
116	Phase-dependent light propagation in atomic vapors. Physical Review A, 2007, 75, .	1.0	28
117	Ground state cooling in a bad cavity. Journal of Modern Optics, 2007, 54, 1595-1606.	0.6	7
118	One-dimensional Coulomb crystals at low temperatures. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S221-S230.	0.6	5
119	Coherent generation of EPR-entangled light pulses mediated by a single trapped atom. Physical Review A, 2006, 73, .	1.0	29
120	Inelastic scattering of light by a cold trapped atom: Effects of the quantum center-of-mass motion. Physical Review A, 2006, 73, .	1.0	5
121	Entangled Light Pulses from Single Cold Atoms. Physical Review Letters, 2006, 96, 023601.	2.9	49
122	Single cold atom as efficient stationary source of EPR-entangled light. Physical Review A, 2006, 74, .	1.0	31
123	Quantum coherence and population trapping in three-photon processes. Physical Review A, 2006, 74, .	1.0	28
124	Cooling Trapped Atoms in Optical Resonators. Physical Review Letters, 2005, 95, 143001.	2.9	61
125	Extracting atoms on demand with lasers. Physical Review A, 2005, 71, .	1.0	24
126	Mechanical effects of optical resonators on driven trapped atoms: Ground-state cooling in a high-finesse cavity. Physical Review A, 2005, 72, .	1.0	37

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127	Simultaneous cooling of axial vibrational modes in a linear ion trap. Physical Review A, 2005, 72, .	1.0	13
128	Suppression of Bragg Scattering by Collective Interference of Spatially Ordered Atoms with a High-QCavity Mode. Physical Review Letters, 2004, 93, 123002.	2.9	23
129	Eigenmodes and Thermodynamics of a Coulomb Chain in a Harmonic Potential. Physical Review Letters, 2004, 93, 170602.	2.9	54
130	Dynamics of an ion chain in a harmonic potential. Physical Review E, 2004, 70, 066141.	0.8	46
131	Resonance fluorescence of a trapped three-level atom. Physical Review A, 2004, 69, .	1.0	15
132	Cooling atomic motion with quantum interference. Physical Review A, 2003, 67, .	1.0	62
133	Laser Cooling of Matter. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 883.	0.9	2
134	Laser cooling of trapped ions. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1003.	0.9	161
135	Is an ion string laser-cooled like a single ion?. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1041-1048.	0.6	8
136	Measuring irreversible dynamics of a quantum harmonic oscillator. Physical Review A, 2002, 65, .	1.0	45
137	Reversing the Jaynes\$ndash\$Cummings dynamics to measure decoherence. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S310-S312.	1.4	4
138	Phase-dependent interaction in a four-level atomic configuration. Physical Review A, 2002, 66, .	1.0	80
139	Laser Cooling of Trapped Ions. , 2002, , 243-260.		0
140	Doppler cooling of a Coulomb crystal. Physical Review A, 2001, 64, .	1.0	20
141	Ground State Laser Cooling Using Electromagnetically Induced Transparency. Physical Review Letters, 2000, 85, 4458-4461.	2.9	214
142	Self-organized topological insulator due to cavity-mediated correlated tunneling. Quantum - the Open Journal for Quantum Science, 0, 5, 501.	0.0	15