

Roberto Stassi

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,134
citations

516215

16
h-index

794141

19
g-index

20
all docs

20
docs citations

20
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous Conversion from Virtual to Real Photons in the Ultrastrong-Coupling Regime. <i>Physical Review Letters</i> , 2013, 110, 243601.	2.9	136
2	Resolution of gauge ambiguities in ultrastrong-coupling cavity quantum electrodynamics. <i>Nature Physics</i> , 2019, 15, 803-808.	6.5	131
3	One Photon Can Simultaneously Excite Two or More Atoms. <i>Physical Review Letters</i> , 2016, 117, 043601.	2.9	123
4	Multiphoton quantum Rabi oscillations in ultrastrong cavity QED. <i>Physical Review A</i> , 2015, 92, .	1.0	118
5	Ultrastrong Coupling of Plasmons and Excitons in a Nanoshell. <i>ACS Nano</i> , 2014, 8, 11483-11492.	7.3	80
6	Output field-quadrature measurements and squeezing in ultrastrong cavity-QED. <i>New Journal of Physics</i> , 2016, 18, 123005.	1.2	62
7	Quantum nonlinear optics without photons. <i>Physical Review A</i> , 2017, 96, .	1.0	60
8	Switching on and off of ultrastrong light-matter interaction: Photon statistics of quantum vacuum radiation. <i>Physical Review A</i> , 2013, 88, .	1.0	59
9	Interaction of Mechanical Oscillators Mediated by the Exchange of Virtual Photon Pairs. <i>Physical Review Letters</i> , 2019, 122, 030402.	2.9	54
10	Vacuum-induced symmetry breaking in a superconducting quantum circuit. <i>Physical Review A</i> , 2014, 90, .	1.0	49
11	Feynman-diagrams approach to the quantum Rabi model for ultrastrong cavity QED: stimulated emission and reabsorption of virtual particles dressing a physical excitation. <i>New Journal of Physics</i> , 2017, 19, 053010.	1.2	49
12	Scully-Lamb quantum laser model for parity-time-symmetric whispering-gallery microcavities: Gain saturation effects and nonreciprocity. <i>Physical Review A</i> , 2019, 99, .	1.0	43
13	Scalable quantum computer with superconducting circuits in the ultrastrong coupling regime. <i>Npj Quantum Information</i> , 2020, 6, .	2.8	42
14	Long-lasting quantum memories: Extending the coherence time of superconducting artificial atoms in the ultrastrong-coupling regime. <i>Physical Review A</i> , 2018, 97, .	1.0	37
15	Quantum control and long-range quantum correlations in dynamical Casimir arrays. <i>Physical Review A</i> , 2015, 92, .	1.0	35
16	Fast binomial-code holonomic quantum computation with ultrastrong light-matter coupling. <i>Physical Review Research</i> , 2021, 3, .	1.3	27
17	Single-step arbitrary control of mechanical quantum states in ultrastrong optomechanics. <i>Physical Review A</i> , 2015, 91, .	1.0	15
18	Delayed-choice quantum control of light-matter interaction. <i>Europhysics Letters</i> , 2012, 99, 24003.	0.7	10

#	ARTICLE	IF	CITATIONS
19	Interference with coupled microcavities: Optical analog of spin rotations. Physical Review B, 2011, 84, .	1.1	4
20	Hidden Vacuum Rabi Oscillations: Dynamical Quantum Superpositions of On/Off Interaction between a Single Quantum Dot and a Microcavity. Communications in Theoretical Physics, 2017, 67, 661.	1.1	0