

Julio T Barreiro

List of Publications by Year in descending order

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44
papers

8,292
citations

361413

20
h-index

414414

32
g-index

45
all docs

45
docs citations

45
times ranked

6011
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Realization of a Fermionic Spin-Momentum Lattice. Physical Review Letters, 2022, 128, .	7.8	10
2	An energy-resolved atomic scanning probe. New Journal of Physics, 2018, 20, 115005. Interaction Effects with Varying N in $SU(N)$	2.9	10
3	Re	7.8	14
4	A Fermionic Quantum Computer with Ultracold Atoms. , 2015, , .		0
5	Entering an acoustic phase. Nature Physics, 2015, 11, 215-216.	16.7	6
6	Measuring the Chern number of Hofstadter bands with ultracold bosonic atoms. Nature Physics, 2015, 11, 162-166.	16.7	777
7	Exploring a Four-Qubit Hilbert Space Using Hyperentangled Photons. , 2015, , .		0
8	Observation of chiral currents with ultracold atoms in bosonic ladders. Nature Physics, 2014, 10, 588-593.	16.7	375
9	Atoms, Ions and Photons for Quantum Tasks: Strengths and Weaknesses. , 2014, , .		0
10	Demonstration of genuine multipartite entanglement with device-independent witnesses. Nature Physics, 2013, 9, 559-562.	16.7	60
11	Realization of the Hofstadter Hamiltonian with Ultracold Atoms in Optical Lattices. Physical Review Letters, 2013, 111, 185301.	7.8	1,102
12	Direct measurement of the Zak phase in topological Bloch bands. Nature Physics, 2013, 9, 795-800.	16.7	751
13	Undoing a Quantum Measurement. Physical Review Letters, 2013, 110, 070403.	7.8	16
14	Hyperentanglement-Enabled Direct Characterization of Quantum Dynamics. Physical Review Letters, 2013, 110, 060404.	7.8	21
15	Quantum simulation of dynamical maps with trapped ions. Nature Physics, 2013, 9, 361-367.	16.7	175
16	Experimental Characterization of Quantum Dynamics Through Many-Body Interactions. Physical Review Letters, 2013, 110, 060403.	7.8	7
17	A quantum information processor with trapped ions. New Journal of Physics, 2013, 15, 123012.	2.9	235
18	Super-Dense Teleportation using Hyperentangled Photons. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
19	Using hyperentanglement to study multipartite entanglement. , 2013, , .		0
20	14-Qubit Entanglement: Creation and Coherence. Physical Review Letters, 2011, 106, 130506.	7.8	853
21	Environmental effects controlled. Nature Physics, 2011, 7, 927-928.	16.7	8
22	Experimental repetitive quantum error correction with trapped ions. , 2011, , .		0
23	An open-system quantum simulator with trapped ions. Nature, 2011, 470, 486-491.	27.8	823
24	Atoms, Photons and Entanglement for Quantum Information Technologies. Procedia Computer Science, 2011, 7, 52-55.	2.0	2
25	Universal Digital Quantum Simulation with Trapped Ions. Science, 2011, 334, 57-61.	12.6	483
26	Experimental Repetitive Quantum Error Correction. Science, 2011, 332, 1059-1061.	12.6	260
27	Quantum Process Tomography by Direct Characterization of Quantum Dynamics Using Hyperentangled Photons. , 2011, , .		0
28	A study of multipartite entanglement using hyperentangled photons. , 2011, , .		0
29	Experimental multiparticle entanglement dynamics induced by decoherence. Nature Physics, 2010, 6, 943-946.	16.7	152
30	Remote Preparation of Single-Photon "Hybrid" Entangled and Vector-Polarization States. Physical Review Letters, 2010, 105, 030407.	7.8	239
31	Quantum process estimation via generic two-body correlations. Physical Review A, 2010, 81, .	2.5	12
32	Using Hyperentangled Photons to Prepare Bound Entanglement. , 2010, , .		0
33	Quantum Process Tomography by Direct Characterization of Quantum Dynamics Using Hyperentangled Photons. , 2010, , .		0
34	Hyperentangled Photons for Communication and Metrology. , 2009, , .		1
35	Beating the channel capacity limit for linear photonic superdense coding. Nature Physics, 2008, 4, 282-286.	16.7	672
36	Hyperentangled Bell-state analysis. Physical Review A, 2007, 75, .	2.5	126

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37	Counterfactual quantum computation through quantum interrogation. Nature, 2006, 439, 949-952.	27.8	170
38	Remote State Preparation: Arbitrary Remote Control of Photon Polarization. Physical Review Letters, 2005, 94, 150502.	7.8	239
39	Generation of Hyperentangled Photon Pairs. Physical Review Letters, 2005, 95, 260501.	7.8	610
40	Measurement of Geometric Phase for Mixed States Using Single Photon Interferometry. Physical Review Letters, 2005, 94, 050401.	7.8	73
41	Geometric phase for single-photon mixed polarization states. , 2004, , IMK2.		0
42	Geometric Phase for Mixed States using Single-Photon Interferometry. AIP Conference Proceedings, 2004, , .	0.4	0
43	Density and expansion effects on pion spectra in relativistic heavy-ion collisions. Physical Review C, 1999, 60, .	2.9	7
44	Software Methodologies at Risk. Lecture Notes in Computer Science, 1999, , 323-328.	1.3	1