

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	Realization of the Hofstadter Hamiltonian with Ultracold Atoms in Optical Lattices. Physical Review Letters, 2013, 111, 185301.	7.8	1,102
2	14-Qubit Entanglement: Creation and Coherence. Physical Review Letters, 2011, 106, 130506.	7.8	853
3	An open-system quantum simulator with trapped ions. Nature, 2011, 470, 486-491.	27.8	823
4	Measuring the Chern number of Hofstadter bands with ultracold bosonic atoms. Nature Physics, 2015, 11, 162-166.	16.7	777
5	Direct measurement of the Zak phase in topological Bloch bands. Nature Physics, 2013, 9, 795-800.	16.7	751
6	Beating the channel capacity limit for linear photonic superdense coding. Nature Physics, 2008, 4, 282-286.	16.7	672
7	Generation of Hyperentangled Photon Pairs. Physical Review Letters, 2005, 95, 260501.	7.8	610
8	Universal Digital Quantum Simulation with Trapped Ions. Science, 2011, 334, 57-61.	12.6	483
9	Observation of chiral currents with ultracold atoms in bosonic ladders. Nature Physics, 2014, 10, 588-593.	16.7	375
10	Experimental Repetitive Quantum Error Correction. Science, 2011, 332, 1059-1061.	12.6	260
11	Remote State Preparation: Arbitrary Remote Control of Photon Polarization. Physical Review Letters, 2005, 94, 150502.	7.8	239
12	Remote Preparation of Single-Photon "Hybrid" Entangled and Vector-Polarization States. Physical Review Letters, 2010, 105, 030407.	7.8	239
13	A quantum information processor with trapped ions. New Journal of Physics, 2013, 15, 123012.	2.9	235
14	Quantum simulation of dynamical maps with trapped ions. Nature Physics, 2013, 9, 361-367.	16.7	175
15	Counterfactual quantum computation through quantum interrogation. Nature, 2006, 439, 949-952.	27.8	170
16	Experimental multiparticle entanglement dynamics induced by decoherence. Nature Physics, 2010, 6, 943-946.	16.7	152
17	Hyperentangled Bell-state analysis. Physical Review A, 2007, 75, .	2.5	126
18	Measurement of Geometric Phase for Mixed States Using Single Photon Interferometry. Physical Review Letters, 2005, 94, 050401.	7.8	73

#	ARTICLE	IF	CITATIONS
19	Demonstration of genuine multipartite entanglement with device-independent witnesses. Nature Physics, 2013, 9, 559-562.	16.7	60
20	Hyperentanglement-Enabled Direct Characterization of Quantum Dynamics. Physical Review Letters, 2013, 110, 060404.	7.8	21
21	Undoing a Quantum Measurement. Physical Review Letters, 2013, 110, 070403.	7.8	16
22	Interaction Effects with Varying N in $SU(N)$ Interactions. Physical Review Letters, 2013, 110, 060403.	7.8	14
23	Re Quantum process estimation via generic two-body correlations. Physical Review A, 2010, 81, .	2.5	12
24	An energy-resolved atomic scanning probe. New Journal of Physics, 2018, 20, 115005.	2.9	10
25	Experimental Realization of a Fermionic Spin-Momentum Lattice. Physical Review Letters, 2022, 128, .	7.8	10
26	Environmental effects controlled. Nature Physics, 2011, 7, 927-928.	16.7	8
27	Density and expansion effects on pion spectra in relativistic heavy-ion collisions. Physical Review C, 1999, 60, .	2.9	7
28	Experimental Characterization of Quantum Dynamics Through Many-Body Interactions. Physical Review Letters, 2013, 110, 060403.	7.8	7
29	Entering an acoustic phase. Nature Physics, 2015, 11, 215-216.	16.7	6
30	Atoms, Photons and Entanglement for Quantum Information Technologies. Procedia Computer Science, 2011, 7, 52-55.	2.0	2
31	Software Methodologies at Risk. Lecture Notes in Computer Science, 1999, , 323-328.	1.3	1
32	Hyperentangled Photons for Communication and Metrology. , 2009, , .		1
33	Geometric phase for single-photon mixed polarization states. , 2004, , IMK2.		0
34	Geometric Phase for Mixed States using Single-Photon Interferometry. AIP Conference Proceedings, 2004, , .	0.4	0
35	Experimental repetitive quantum error correction with trapped ions. , 2011, , .		0
36	Atoms, Ions and Photons for Quantum Tasks: Strengths and Weaknesses. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	A Fermionic Quantum Computer with Ultracold Atoms. , 2015, , .		0
38	Using Hyperentangled Photons to Prepare Bound Entanglement. , 2010, , .		0
39	Quantum Process Tomography by Direct Characterization of Quantum Dynamics Using Hyperentangled Photons. , 2010, , .		0
40	Quantum Process Tomography by Direct Characterization of Quantum Dynamics Using Hyperentangled Photons. , 2011, , .		0
41	A study of multipartite entanglement using hyperentangled photons. , 2011, , .		0
42	Super-Dense Teleportation using Hyperentangled Photons. , 2013, , .		0
43	Using hyperentanglement to study multipartite entanglement. , 2013, , .		0
44	Exploring a Four-Qubit Hilbert Space Using Hyperentangled Photons. , 2015, , .		0