

John Chiaverini

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

2,774
citations

19
h-index

34
g-index

34
ext. papers

3,485
ext. citations

14.1
avg, IF

4.85
L-index

#	Paper	IF	Citations
31	Deterministic quantum teleportation of atomic qubits. <i>Nature</i> , 2004 , 429, 737-9	50.4	659
30	Realization of quantum error correction. <i>Nature</i> , 2004 , 432, 602-5	50.4	303
29	Microfabricated surface-electrode ion trap for scalable quantum information processing. <i>Physical Review Letters</i> , 2006 , 96, 253003	7.4	294
28	Trapped-ion quantum computing: Progress and challenges. <i>Applied Physics Reviews</i> , 2019 , 6, 021314	17.3	265
27	Long-lived qubit memory using atomic ions. <i>Physical Review Letters</i> , 2005 , 95, 060502	7.4	238
26	Surface-electrode architecture for ion-trap quantum information processing. <i>Quantum Information and Computation</i> , 2005 , 5, 419-439	0.9	150
25	Sympathetic cooling of 9Be^+ and 24Mg^+ for quantum logic. <i>Physical Review A</i> , 2003 , 68,	2.6	129
24	Implementation of the semiclassical quantum Fourier transform in a scalable system. <i>Science</i> , 2005 , 308, 997-1000	33.3	121
23	Errors in trapped-ion quantum gates due to spontaneous photon scattering. <i>Physical Review A</i> , 2007 , 75,	2.6	107
22	Integrated optical addressing of an ion qubit. <i>Nature Nanotechnology</i> , 2016 , 11, 1066-1070	28.7	96
21	Integrated multi-wavelength control of an ion qubit. <i>Nature</i> , 2020 , 586, 538-542	50.4	52
20	Insensitivity of the rate of ion motional heating to trap-electrode material over a large temperature range. <i>Physical Review A</i> , 2014 , 89,	2.6	43
19	Low-loss integrated photonics for the blue and ultraviolet regime. <i>APL Photonics</i> , 2019 , 4, 026101	5.2	42
18	Measurement of ion motional heating rates over a range of trap frequencies and temperatures. <i>Physical Review A</i> , 2015 , 91,	2.6	33
17	Distance scaling of electric-field noise in a surface-electrode ion trap. <i>Physical Review A</i> , 2018 , 97,	2.6	31
16	Ion traps fabricated in a CMOS foundry. <i>Applied Physics Letters</i> , 2014 , 105, 044103	3.4	30
15	Loading of a surface-electrode ion trap from a remote, precooled source. <i>Physical Review A</i> , 2012 , 86,	2.6	30

14	Roadmap on integrated quantum photonics. <i>JPhys Photonics</i> ,	2.5	22
13	Scalable loading of a two-dimensional trapped-ion array. <i>Nature Communications</i> , 2016 , 7, 13005	17.4	21
12	Reduction of trapped-ion anomalous heating by in situ surface plasma cleaning. <i>Physical Review A</i> , 2015 , 92,	2.6	18
11	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-15	3.8	16
10	Evidence for multiple mechanisms underlying surface electric-field noise in ion traps. <i>Physical Review A</i> , 2018 , 98,	2.6	15
9	Chip-Integrated Voltage Sources for Control of Trapped Ions. <i>Physical Review Applied</i> , 2019 , 11,	4.3	13
8	Dual-species, multi-qubit logic primitives for Ca ⁺ /Sr ⁺ trapped-ion crystals. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	11
7	Operation of an optical atomic clock with a Brillouin laser subsystem. <i>Nature</i> , 2020 , 588, 244-249	50.4	9
6	Materials challenges for trapped-ion quantum computers. <i>Nature Reviews Materials</i> ,	73.3	9
5	Method for determination of technical noise contributions to ion motional heating. <i>Journal of Applied Physics</i> , 2018 , 124, 214904	2.5	8
4	Heisenberg scaling of imaging resolution by coherent enhancement. <i>Physical Review A</i> , 2017 , 96,	2.6	4
3	Heating of a Trapped Ion Induced by Dielectric Materials. <i>Physical Review Letters</i> , 2021 , 126, 230505	7.4	4
2	Fast and robust particle shuttling for quantum science and technology. <i>Europhysics Letters</i> , 2021 , 134, 23001	1.6	1
1	omg blueprint for trapped ion quantum computing with metastable states. <i>Applied Physics Letters</i> , 2021 , 119, 214002	3.4	0