

Wesley C Campbell

List of Publications by Year in descending order

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54
papers

3,110
citations

218381

26
h-index

168136

53
g-index

54
all docs

54
docs citations

54
times ranked

2673
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution laser-induced fluorescence spectroscopy of $^{28}\text{Si}^{16}\text{O}^+$ and $^{29}\text{Si}^{16}\text{O}^+$ in a cryogenic buffer-gas cell. <i>Journal of Molecular Spectroscopy</i> , 2022, 384, 111582.	0.4	2
2	Surface chemical trapping of optical cycling centers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 211-218.	1.3	5
3	Franck-Condon Tuning of Optical Cycling Centers by Organic Functionalization. <i>Physical Review Letters</i> , 2021, 126, 123002.	2.9	26
4	Optical Cycling Functionalization of Arenes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3989-3995.	2.1	20
5	Tunable transverse spin-motion coupling for quantum information processing. <i>Quantum Science and Technology</i> , 2021, 6, 024003.	2.6	6
6	Isomer-specific kinetics of the $\text{C} + \text{H}_2\text{O}$ reaction at the temperature of interstellar clouds. <i>Science Advances</i> , 2021, 7, .	4.7	16
7	Laserless quantum gates for electric dipoles in thermal motion. <i>Physical Review A</i> , 2021, 104, .	1.0	4
8	Blueprint for trapped ion quantum computing with metastable states. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	25
9	Weak dissipation for high-fidelity qubit-state preparation and measurement. <i>Physical Review A</i> , 2021, 104, .	1.0	6
10	Certified quantum gates. <i>Physical Review A</i> , 2020, 102, .	1.0	6
11	Application of a self-injection locked cyan laser for Barium ion cooling and spectroscopy. <i>Scientific Reports</i> , 2020, 10, 16494.	1.6	7
12	Dipole-Phonon Quantum Logic with Trapped Polar Molecular Ions. <i>Physical Review Letters</i> , 2020, 125, 120501.	2.9	21
13	Hyperfine structure of ^{173}Yb : Toward resolving the nuclear octupole moment. <i>Physical Review Letters</i> , 2020, 125, 120501.	1.0	4
14	High-fidelity manipulation of a qubit enabled by a manufactured nucleus. <i>Npj Quantum Information</i> , 2020, 6, .	2.8	49
15	Dipole-phonon quantum logic with alkaline-earth monoxide and monosulfide cations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24964-24973.	1.3	6
16	Coherent control for qubit state readout. <i>New Journal of Physics</i> , 2020, 22, 073038.	1.2	6
17	Suppressed Spontaneous Emission for Coherent Momentum Transfer. <i>Physical Review Letters</i> , 2019, 123, 033603.	2.9	15
18	Isotope-selective chemistry in the $\text{Be}^{2+}(\text{S}^{1/2}) + \text{HOD} \rightarrow \text{BeOD} + \text{BeOH} + \text{H/D}$ reaction. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14005-14011.	1.3	14

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19	Bloom syndrome: research and data priorities for the development of precision medicine as identified by some affected families. <i>Journal of Physical Education and Sports Management</i> , 2018, 4, a002816.	0.5	16
20	Displacement operators: the classical face of their quantum phase. <i>European Journal of Physics</i> , 2018, 39, 025405.	0.3	1
21	Dipolar quantum logic for freely rotating trapped molecular ions. <i>Physical Review A</i> , 2018, 98, .	1.0	53
22	Phonon Lasing from Optical Frequency Comb Illumination of Trapped Ions. <i>Physical Review Letters</i> , 2018, 121, 043201.	2.9	22
23	Optical Control of Reactions between Water and Laser-Cooled Be ⁺ Ions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3555-3560.	2.1	37
24	Rotation sensing with trapped ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 064002.	0.6	40
25	Spectroscopy of a Synthetic Trapped Ion Qubit. <i>Physical Review Letters</i> , 2017, 119, 100501.	2.9	25
26	Methods, analysis, and the treatment of systematic errors for the electron electric dipole moment search in thorium monoxide. <i>New Journal of Physics</i> , 2017, 19, 073029.	1.2	47
27	Creation of two-dimensional Coulomb crystals of ions in oblate Paul traps for quantum simulations. <i>EPJ Quantum Technology</i> , 2015, 2, .	2.9	32
28	Diabatic-ramping spectroscopy of many-body excited states. <i>Physical Review A</i> , 2014, 90, .	1.0	9
29	Continuous all-optical deceleration and single-photon cooling of molecular beams. <i>Physical Review A</i> , 2014, 89, .	1.0	27
30	Beat note stabilization of mode-locked lasers for quantum information processing. <i>Optics Letters</i> , 2014, 39, 3238.	1.7	26
31	Quantum control of qubits and atomic motion using ultrafast laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 45-61.	1.1	46
32	Order of Magnitude Smaller Limit on the Electric Dipole Moment of the Electron. <i>Science</i> , 2014, 343, 269-272.	6.0	820
33	Coherent imaging spectroscopy of a quantum many-body spin system. <i>Science</i> , 2014, 345, 430-433.	6.0	72
34	Ultrafast Spin-Motion Entanglement and Interferometry with a Single Atom. <i>Physical Review Letters</i> , 2013, 110, 203001.	2.9	69
35	Shot-noise-limited spin measurements in a pulsed molecular beam. <i>Physical Review A</i> , 2013, 88, .	1.0	20
36	Emergence and Frustration of Magnetism with Variable-Range Interactions in a Quantum Simulator. <i>Science</i> , 2013, 340, 583-587.	6.0	366

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37	Quantum Catalysis of Magnetic Phase Transitions in a Quantum Simulator. Physical Review Letters, 2013, 111, 100506.	2.9	33
38	Advanced cold molecule electron EDM. EPJ Web of Conferences, 2013, 57, 02004.	0.1	7
39	Quantum simulation of spin models on an arbitrary lattice with trapped ions. New Journal of Physics, 2012, 14, 095024.	1.2	106
40	Search for the electric dipole moment of the electron with thorium monoxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 079803.	0.6	6
41	Cold N^+ Collisions in a Magnetic Trap. Physical Review Letters, 2011, 106, 053201.	2.9	82
42	Ultrafast Gates for Single Atomic Qubits. Physical Review Letters, 2010, 105, 090502.	2.9	120
43	Magnetic trapping of NH molecules with 20% lifetimes. New Journal of Physics, 2010, 12, 065028.	1.2	37
44	Search for the electric dipole moment of the electron with thorium monoxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 074007.	0.6	104
45	Entanglement of Atomic Qubits Using an Optical Frequency Comb. Physical Review Letters, 2010, 104, 140501.	2.9	123
46	Mechanism of Collisional Spin Relaxation in N_2 Molecules. Physical Review Letters, 2009, 102, 013003.	2.9	44
47	Cooling, Trap Loading, and Beam Production Using a Cryogenic Helium Buffer Gas. , 2009, , . Magnetic trapping of atomic nitrogen T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 317 Td (math		0
48	cotrapping of NH		