

Gerald Gabrielse

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3890/publications.pdf>

Version: 2024-02-01

58
papers

5,481
citations

236925

25
h-index

189892

50
g-index

59
all docs

59
docs citations

59
times ranked

5325
citing authors

#	ARTICLE	IF	CITATIONS
1	Circumventing Detector Backaction on a Quantum Cyclotron. <i>Physical Review Letters</i> , 2021, 126, 070402.	7.8	6
2	Switchable damping for a one-particle oscillator. <i>Review of Scientific Instruments</i> , 2021, 92, 023201.	1.3	2
3	Driven one-particle quantum cyclotron. <i>Physical Review A</i> , 2021, 103, .	2.5	6
4	Gaseous ^3He nuclear magnetic resonance probe for cryogenic environments. <i>Review of Scientific Instruments</i> , 2019, 90, 083107.	1.3	9
5	Towards an Improved Test of the Standard Model's Most Precise Prediction. <i>Atoms</i> , 2019, 7, 45.	1.6	29
6	Stimulated Raman adiabatic passage preparation of a coherent superposition of ThO^+ states for an improved electron electric-dipole-moment measurement. <i>Physical Review A</i> , 2016, 93, .	2.5	23
7	High efficiency positron accumulation for high-precision magnetic moment experiments. <i>Review of Scientific Instruments</i> , 2015, 86, 053301.	1.3	14
8	One-Particle Measurement of the Antiproton Magnetic Moment. <i>Physical Review Letters</i> , 2013, 110, 130801.	7.8	73
9	Shot-noise-limited spin measurements in a pulsed molecular beam. <i>Physical Review A</i> , 2013, 88, .	2.5	20
10	Using electric fields to prevent mirror-trapped antiprotons in antihydrogen studies. <i>Physical Review A</i> , 2013, 87, .	2.5	7
11	Resolving an Individual One-Proton Spin Flip to Determine a Proton Spin State. <i>Physical Review Letters</i> , 2013, 110, 140406.	7.8	12
12	Trapped Antihydrogen in Its Ground State. <i>Physical Review Letters</i> , 2012, 108, 113002.	7.8	165
13	Direct Measurement of the Proton Magnetic Moment. <i>Physical Review Letters</i> , 2012, 108, 153001.	7.8	48
14	Magnetic and electric dipole moments of the H^+ ion. <i>Physical Review Letters</i> , 2012, 108, 153001.	2.5	35
15	Optimized planar Penning traps for quantum information studies. <i>Hyperfine Interactions</i> , 2011, 199, 279-289.	0.5	9
16	Cavity control of a single-electron quantum cyclotron: Measuring the electron magnetic moment. <i>Physical Review A</i> , 2011, 83, .	2.5	227
17	Adiabatic Cooling of Antiprotons. <i>Physical Review Letters</i> , 2011, 106, 073002.	7.8	45
18	Centrifugal Separation of Antiprotons and Electrons. <i>Physical Review Letters</i> , 2010, 105, 213002.	7.8	13

#	ARTICLE	IF	CITATIONS
19	Why Is Sideband Mass Spectrometry Possible with Ions in a Penning Trap?. Physical Review Letters, 2009, 102, 172501.	7.8	59
20	Measurements of the Electron Magnetic Moment. Advanced Series on Directions in High Energy Physics, 2009, , 157-194.	0.7	2
21	Determining the Fine Structure Constant. Advanced Series on Directions in High Energy Physics, 2009, , 195-218.	0.7	3
22	MORE ACCURATE MEASUREMENT OF THE ELECTRON MAGNETIC MOMENT AND THE FINE STRUCTURE CONSTANT. , 2009, , .		0
23	Antihydrogen Production within a Penning-Ioffe Trap. Physical Review Letters, 2008, 100, 113001.	7.8	99
24	New Measurement of the Electron Magnetic Moment and the Fine Structure Constant. Physical Review Letters, 2008, 100, 120801.	7.8	870
25	Cryogenic Particle Accumulation In ATRAP And The First Antihydrogen Production Within A Magnetic Gradient Trap For Neutral Antimatter. AIP Conference Proceedings, 2008, , .	0.4	1
26	Antiproton Confinement in a Penning-Ioffe Trap for Antihydrogen. Physical Review Letters, 2007, 98, 113002.	7.8	41
27	ATRAP antihydrogen experiments. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3437-3442.	0.8	2
28	New Measurement of the Electron Magnetic Moment and the Fine Structure Constant. AIP Conference Proceedings, 2006, , .	0.4	0
29	New Measurement of the Electron Magnetic Moment Using a One-Electron Quantum Cyclotron. Physical Review Letters, 2006, 97, 030801.	7.8	289
30	New Measurement of the Electron Magnetic Moment and the Fine Structure Constant. AIP Conference Proceedings, 2006, , .	0.4	0
31	HELIUM 23P FINE STRUCTURE MEASUREMENT IN A DISCHARGE CELL. , 2005, , .		0
32	Laser-Controlled Antihydrogen Production by Two-Stage Charge Exchange. AIP Conference Proceedings, 2005, , .	0.4	0
33	ATRAP â€” Progress Towards Trapped Antihydrogen. AIP Conference Proceedings, 2005, , .	0.4	1
34	First Measurement of the Velocity of Slow Antihydrogen Atoms. Physical Review Letters, 2004, 93, 073401.	7.8	63
35	Slow Antihydrogen. AIP Conference Proceedings, 2004, , .	0.4	2
36	Observations of Cold Antihydrogen. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
37	Driven Production of Cold Antihydrogen and the First Measured Distribution of Antihydrogen States. Physical Review Letters, 2002, 89, 233401.	7.8	191
38	Background-Free Observation of Cold Antihydrogen with Field-Ionization Analysis of Its States. Physical Review Letters, 2002, 89, 213401.	7.8	515
39	COLD ANTIHYDROGEN AND CPT. , 2002, , .		0
40	One-electron quantum cyclotron (and implications for cold antihydrogen). AIP Conference Proceedings, 2001, , .	0.4	0
41	Observing the Quantum Limit of an Electron Cyclotron: QND Measurements of Quantum Jumps between Fock States. Physical Review Letters, 1999, 83, 1287-1290.	7.8	187
42	Trapped positrons for antihydrogen. Hyperfine Interactions, 1994, 89, 371-380.	0.5	6
43	Extremely cold antiprotons for antihydrogen production. Hyperfine Interactions, 1993, 76, 81-93.	0.5	12
44	Extremely cold positrons for antihydrogen production. Hyperfine Interactions, 1993, 76, 143-150.	0.5	5
45	(Anti)hydrogen recombination studies in a nested Penning trap. Hyperfine Interactions, 1993, 76, 181-188.	0.5	13
46	The magnetic moment of the antiproton. Hyperfine Interactions, 1993, 76, 379-380.	0.5	14
47	Portable trap carries particles 5000 kilometers. Hyperfine Interactions, 1993, 76, 381-386.	0.5	13
48	CAVITY SHIFTS OF MEASURED ELECTRON MAGNETIC MOMENTS. Advanced Series on Directions in High Energy Physics, 1990, , 389-418.	0.7	3
49	Thousandfold improvement in the measured antiproton mass. Physical Review Letters, 1990, 65, 1317-1320.	7.8	250
50	One electron in an orthogonalized cylindrical Penning trap. Applied Physics Letters, 1989, 55, 2144-2146.	3.3	42
51	Self-shielding superconducting solenoid systems. Journal of Applied Physics, 1988, 63, 5143-5148.	2.5	80
52	Geonium theory: Physics of a single electron or ion in a Penning trap. Reviews of Modern Physics, 1986, 58, 233-311.	45.6	1,180
53	Observation of a Relativistic, Bistable Hysteresis in the Cyclotron Motion of a Single Electron. Physical Review Letters, 1985, 54, 537-539.	7.8	140
54	Observation of inhibited spontaneous emission. Physical Review Letters, 1985, 55, 67-70.	7.8	262

#	ARTICLE	IF	CITATIONS
55	Detection, damping, and translating the center of the axial oscillation of a charged particle in a Penning trap with hyperbolic electrodes. <i>Physical Review A</i> , 1984, 29, 462-469.	2.5	51
56	Cylindrical Penning traps with orthogonalized anharmonicity compensation. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984, 57, 1-17.	1.8	140
57	Precision spectroscopy of a charged particle in an imperfect Penning trap. <i>Physical Review A</i> , 1982, 25, 2423-2425.	2.5	198
58	Narrowing laser linewidth using a stabilized optical frequency comb. , 0, , .		0