Gerald Gwinner

List of Publications by Year
in descending order

50	800	516710 16	526287 27
papers	citations	h-index	g-index

51	51	51	847
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Studies of the weak interaction in atomic systems: towards measurements of atomic parity non-conservation in francium. Quantum Science and Technology, 2022, 7, 024001.	5.8	3
2	Mapping the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>40</mml:m island of inversion: Precision mass measurements of neutron-rich Fe isotopes. Physical Review C, 2022, 105, .	2.9	5
3	Tiny isotopic difference tests standard model of particle physics. Nature, 2022, 606, 467-468.	27.8	0
4	Summit of the N=40 island of inversion: Precision mass measurements and ab initio calculations of neutron-rich chromium isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 833, 137288.	4.1	3
5	Polarization-dependent disappearance of a resonance signal: Indication for optical pumping in a storage ring?. Physical Review Accelerators and Beams, 2021, 24, .	1.6	3
6	Examining the nuclear mass surface of Rb and Sr isotopes in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>â‰ˆ</mml:mo><mml:mn>104</m region via precision mass measurements. Physical Review C, 2021, 103, .	2.9	6
7	Mass Measurements of Neutron-Deficient Yb Isotopes and Nuclear Structure at the Extreme Proton-Rich Side of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>82</mml:mn></mml:mrow></mml:math> Shell Closure. Physical Review Letters, 2021, 127, 112501.	7.8	18
8	Mass measurements of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ga</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>60</mml:mn><mml:mtext>â€“</mml:mtext><mml:mn>63</mml:mn></mml:mrow></mml:mmultiscripts></m reduce x-ray burst model uncertainties and extend the evaluated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>T</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn>	2.9	9
9	Determination of the isotopic change in nuclear charge radius from extreme-ultraviolet spectroscopy of highly charged ions of Xe. Physical Review A, 2020, 101, .	2.5	4
10	Diversifying beam species through decay and recapture ion trapping: a demonstrative experiment at TITAN-EBIT. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 045113.	3.6	2
11	Mass measurements of neutron-rich indium isotopes toward the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>82</mml:mn> Precision Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math> Asymmetry in Spin-Polarized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">K</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>37</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> De	2.9	16
12	Dawning of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>32</mml:mn></mml:math> Shell Closure Seen through Precision Mass Measurements of Neutron-Rich Titanium Isotopes. Physical Review Letters, 2018, 120, 062503.	7.8	34
13	Measuring the difference in nuclear charge radius of Xe isotopes by EUV spectroscopy of highly charged Na-like ions. Physical Review A, 2018, 98, .	2.5	81
14	Photoionization of the francium 7P3/2 state. Canadian Journal of Physics, 2017, 95, 234-237.	1.1	9
15	Precision mass measurements of magnesium isotopes and implications for the validity of the isobaric mass multiplet equation. Physical Review C, 2017, 96, .	2.9	2
16	Mass determination near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>20</mml:mn> for Al and Na isotopes. Physical Review C, 2017, 96, .	2.9	12
17	A novel transparent charged particle detector for the CPET upgrade at TITAN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 868, 133-138.	1.6	1
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19	High precision <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Q</mml:mi><mml:mi>EC</mml:mi></mml:msub></mml:math>-value measurement of the superallowed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Î²</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math> emitter <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Mg</mml:mi><mml:mprescripts	2.9	8
20	Efficient inter-trap transfer of cold francium atoms. Hyperfine Interactions, 2016, 237, 1.	0.5	6
21	First direct mass measurement of the neutron-deficient nucleus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Al</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>24</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2015, 92, .	2.9	9
22	Observation of a crossover of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>S</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> to <mml:mi> the island of inversion from precision mass spectrometry. Physical Review C, 2015, 92, .	2.9	16
23	A cooler Penning trap for the TITAN mass measurement facility. , 2015, , .		1
24	Hyperfine Anomalies in Fr: Boundaries of the Spherical Single Particle Model. Physical Review Letters, 2015, 115, 042501.	7.8	26
25	Penning trap mass measurements utilizing highly charged ions as a path to benchmark isospin-symmetry breaking corrections in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>74</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2015, 91, .	2.9	11
26	TITAN: an ion trap for accurate mass measurements of ms-half-life nuclides. Applied Physics B: Lasers and Optics, 2014, 114, 99-105.	2.2	10
27	TITAN: An ion trap facility for on-line mass measurement experiments. Hyperfine Interactions, 2014, 225, 143-155.	0.5	13
28	TRINAT: measuring Î²-decay correlations with laser-trapped atoms. Hyperfine Interactions, 2014, 225, 115-120.	0.5	7
29	Test of Time Dilation Using Stored<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:math> as Clocks at Relativistic Speed. Physical Review Letters, 2014, 113, 120405.	7.8	57
30	Atomic parity non-conservation: the francium anapole project of the FrPNC collaboration at TRIUMF. Hyperfine Interactions, 2013, 214, 163-171.	0.5	19
31	Evidence for the extinction of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>20</mml:mn></mml:mrow></mml:math> neutron closure for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>32</mml:mn></mml:msup></mml:math>Mg from direct mass measurements. Physical Review C, 2013, 88, .	2.9	22
32	PRECISION PENNING TRAP MASS MEASUREMENTS FOR NUCLEAR STRUCTURE AT TRIUMF. , 2013, , .		1
33	The FrPNC experiment at TRIUMF: Atomic parity non-conservation in francium. , 2012, , .		3
34	Highly charged ions in Penning traps: A new tool for resolving low-lying isomeric states. Physical Review C, 2012, 85, .	2.9	29
35	Penning-trap mass spectrometry of highly charged, neutron-rich Rb and Sr isotopes in the vicinity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="bold">A</mml:mi><mml:mo>â‰ˆ</mml:mo><mml:mn mathvariant="bold">100</mml:mn></mml:mrow></mml:math>. Physical Review C, 2012, 85, .	2.9	37
36	Preparatory measurements for a test of time dilation in the ESRThis paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at Ã‰cole de Physique, les Houches, France, 30 Mayâ€“â€“â€‰4 June, 2010.. Canadian Journal of Physics, 2011, 89, 85-93.	1.1	6

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37	Comment on: â€œLorentz violation in high-energy ionsâ€•by Santosh Devasia. European Physical Journal C, 2011, 71, 1.	3.9	2
38	Tensor interaction constraints from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math>-decay recoil spin asymmetry of trapped atoms. Physical Review C, 2009, 79, .	2.9	28
39	Standard model tests with trapped radioactive atoms. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 033101.	3.6	65
40	Sub-Doppler laser spectroscopy on relativistic beams and tests of Lorentz invariance. Physical Review A, 2009, 80, .	2.5	18
41	LORENTZ INVARJANCE TESTED WITH FAST OPTICAL ION CLOCKS IN A STORAGE RING. , 2008, , .		0
42	TEST OF TIME DILATION WITH A TWO-VELOCITY ATOMIC CLOCK. , 2008, , .		0
43	Test of relativistic time dilation with fast optical atomic clocks at different velocities. Nature Physics, 2007, 3, 861-864.	16.7	115
44	Fundamental symmetries studies with cold trapped francium atoms at ISAC. Hyperfine Interactions, 2006, 172, 45-51.	0.5	23
45	Ion detection from beta decay and two-body decay experiments with laser-cooled atoms. Hyperfine Interactions, 2006, 173, 41-48.	0.5	1
46	Enhanced electronâ€“ion recombination in ion storage rings. Hyperfine Interactions, 2006, 173, 67-72.	0.5	2
47	A cooler ion trap for the TITAN on-line trapping facility at TRIUMF. Hyperfine Interactions, 2006, 173, 103-111.	0.5	23
48	The TITAN mass measurement facility at TRIUMF-ISAC. Hyperfine Interactions, 2006, 173, 123-131.	0.5	12
49	Classical dynamics of enhanced low-energy electron-ion recombination in storage rings. Physical Review A, 2006, 74, .	2.5	14
50	AN IMPROVED TEST OF RELATIVISTIC TIME DILATION WITH FAST, STORED IONS. , 2005, , .		0