

# Gerald Gwinner

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

800  
citations

516710

16  
h-index

526287

27  
g-index

51  
all docs

51  
docs citations

51  
times ranked

847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Test of relativistic time dilation with fast optical atomic clocks at different velocities. Nature Physics, 2007, 3, 861-864.	16.7	115
2	Dawning of the $N$ Shell Closure Seen through Precision Mass Measurements of Neutron-Rich Titanium Isotopes. Physical Review Letters, 2018, 120, 062503.	7.8	81
3	Standard model tests with trapped radioactive atoms. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 033101.	3.6	65
4	Test of Time Dilation Using Stored $Li$ as Clocks at Relativistic Speed. Physical Review Letters, 2014, 113, 120405.	7.8	57
5	Penning-trap mass spectrometry of highly charged, neutron-rich Rb and Sr isotopes in the vicinity of $A$ . Precision Measurement of the $^{100}K$ Asymmetry in Spin-Polarized $^{100}K$ . Physical Review C, 2012, 85, .	2.9	37
6	Highly charged ions in Penning traps: A new tool for resolving low-lying isomeric states. Physical Review C, 2012, 85, .	7.8	34
7	Tensor interaction constraints from $I^2$ -decay recoil spin asymmetry of trapped atoms. Physical Review C, 2009, 79, .	2.9	28
8	Hyperfine Anomalies in Fr: Boundaries of the Spherical Single Particle Model. Physical Review Letters, 2015, 115, 042501.	7.8	26
9	Fundamental symmetries studies with cold trapped francium atoms at ISAC. Hyperfine Interactions, 2006, 172, 45-51.	0.5	23
10	A cooler ion trap for the TITAN on-line trapping facility at TRIUMF. Hyperfine Interactions, 2006, 173, 103-111.	0.5	23
11	Evidence for the extinction of the $N$ shell closure for $^{20}Mg$ from direct mass measurements. Physical Review C, 2013, 88, .	2.9	22
12	Atomic parity non-conservation: the francium anapole project of the FrPNC collaboration at TRIUMF. Hyperfine Interactions, 2013, 214, 163-171.	0.5	19
13	Sub-Doppler laser spectroscopy on relativistic beams and tests of Lorentz invariance. Physical Review A, 2009, 80, .	2.5	18
14	Mass Measurements of Neutron-Deficient Yb Isotopes and Nuclear Structure at the Extreme Proton-Rich Side of the $N$ Shell. Physical Review Letters, 2021, 127, 112501.	7.8	18
15	Observation of a crossover of $S$ the island of inversion from precision mass spectrometry. Physical Review C, 2015, 92, .	2.9	16
16	Mass measurements of neutron-rich indium isotopes toward the $N$ shell closure. Physical Review C, 2018, 97, .	2.9	15
17	Classical dynamics of enhanced low-energy electron-ion recombination in storage rings. Physical Review A, 2006, 74, .	2.5	14

#	ARTICLE	IF	CITATIONS
19	TITAN: An ion trap facility for on-line mass measurement experiments. <i>Hyperfine Interactions</i> , 2014, 225, 143-155.	0.5	13
20	The TITAN mass measurement facility at TRIUMF-ISAC. <i>Hyperfine Interactions</i> , 2006, 173, 123-131.	0.5	12
21	Precision mass measurements of magnesium isotopes and implications for the validity of the isobaric mass multiplet equation. <i>Physical Review C</i> , 2017, 96, .	2.9	12
22	Penning trap mass measurements utilizing highly charged ions as a path to benchmark isospin-symmetry breaking corrections in $^{87}\text{Rb}$ . <i>Physical Review C</i> , 2015, 91, .	2.9	11
23	TITAN: an ion trap for accurate mass measurements of ms-half-life nuclides. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 99-105.	2.2	10
24	First direct mass measurement of the neutron-deficient nucleus $^{24}\text{Al}$ . <i>Physical Review C</i> , 2015, 92, .	2.9	9
25	Measuring the difference in nuclear charge radius of Xe isotopes by EUV spectroscopy of highly charged Na-like ions. <i>Physical Review A</i> , 2018, 98, .	2.5	9
26	Mass measurements of $^{60}\text{Ga}$ reduce x-ray burst model uncertainties and extend the evaluated $^{63}\text{Q}$ value measurement of the superallowed $^{63}\text{EC}$ emitter $^{63}\text{Mg}$ .	2.9	9
27	-value measurement of the superallowed $^{63}\text{EC}$ emitter $^{63}\text{Mg}$ .	2.9	8
28	TRINAT: measuring $\hat{I}^2$ -decay correlations with laser-trapped atoms. <i>Hyperfine Interactions</i> , 2014, 225, 115-120.	0.5	7
29	Mass determination near $^{20}\text{N}$ for Al and Na isotopes. <i>Physical Review C</i> , 2017, 96, .	2.1	7
30	Preparatory measurements for a test of time dilation in the ESRT. This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at $\text{cole de Physique}$ , les Houches, France, 30 May-4 June, 2010.. <i>Canadian Journal of Physics</i> , 2011, 89, 85-93.	1.1	6
31	Efficient inter-trap transfer of cold francium atoms. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	6
32	Examining the nuclear mass surface of Rb and Sr isotopes in the $^{104}\text{A}$ region via precision mass measurements. <i>Physical Review C</i> , 2021, 103, .	2.9	6
33	Mapping the island of inversion: Precision mass measurements of neutron-rich Fe isotopes. <i>Physical Review C</i> , 2022, 105, .	2.9	5
34	Determination of the isotopic change in nuclear charge radius from extreme-ultraviolet spectroscopy of highly charged ions of Xe. <i>Physical Review A</i> , 2020, 101, .	2.5	4
35	The FrPNC experiment at TRIUMF: Atomic parity non-conservation in francium. , 2012, , .		3
36	Polarization-dependent disappearance of a resonance signal: Indication for optical pumping in a storage ring?. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	3

#	ARTICLE	IF	CITATIONS
37	Studies of the weak interaction in atomic systems: towards measurements of atomic parity non-conservation in francium. <i>Quantum Science and Technology</i> , 2022, 7, 024001.	5.8	3
38	Summit of the N=40 island of inversion: Precision mass measurements and ab initio calculations of neutron-rich chromium isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 833, 137288.	4.1	3
39	Enhanced electron-ion recombination in ion storage rings. <i>Hyperfine Interactions</i> , 2006, 173, 67-72.	0.5	2
40	Comment on: "Lorentz violation in high-energy ions" by Santosh Devasia. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	2
41	Photoionization of the francium 7P3/2 state. <i>Canadian Journal of Physics</i> , 2017, 95, 234-237.	1.1	2
42	Diversifying beam species through decay and recapture ion trapping: a demonstrative experiment at TITAN-EBIT. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 045113.	3.6	2
43	Ion detection from beta decay and two-body decay experiments with laser-cooled atoms. <i>Hyperfine Interactions</i> , 2006, 173, 41-48.	0.5	1
44	A cooler Penning trap for the TITAN mass measurement facility. , 2015, , .		1
45	A novel transparent charged particle detector for the CPET upgrade at TITAN. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 868, 133-138.	1.6	1
46	PRECISION PENNING TRAP MASS MEASUREMENTS FOR NUCLEAR STRUCTURE AT TRIUMF. , 2013, , .		1
47	AN IMPROVED TEST OF RELATIVISTIC TIME DILATION WITH FAST, STORED IONS. , 2005, , .		0
48	LORENTZ INVARIANCE TESTED WITH FAST OPTICAL ION CLOCKS IN A STORAGE RING. , 2008, , .		0
49	TEST OF TIME DILATION WITH A TWO-VELOCITY ATOMIC CLOCK. , 2008, , .		0
50	Tiny isotopic difference tests standard model of particle physics. <i>Nature</i> , 2022, 606, 467-468.	27.8	0