

# Ryan J Ringle

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5974142/publications.pdf>

Version: 2024-02-01

113  
papers

2,668  
citations

172457

29  
h-index

206112

48  
g-index

115  
all docs

115  
docs citations

115  
times ranked

1070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved nuclear physics near $A \approx 61$ High-precision mass measurement of neutron star crusts. Physical Review C, 2022, 105, .	2.9	2
2	and a refined determination of the $r$ -process at the First Penning trap mass measurement of $^{24}\text{Mg}$ .	2.9	2
3	First Penning trap mass measurement of $^{36}\text{Ca}$ . Precision Mass Measurements of Neutron-Rich Scandium Isotopes Refine the Evolution of	2.9	7
4	$N \approx 32$ and $N \approx 34$ Shell Closures. Physical Review Letters, 2021, 126, 042501.	7.8	19
5	Particle-in-cell techniques for the study of space charge effects in the Advanced Cryogenic Gas Stopper. Nuclear Instruments & Methods in Physics Research B, 2021, 496, 61-70.	1.4	6
6	Precision mass measurement of lightweight self-conjugate nucleus $^{80}\text{Zr}$ . Nature Physics, 2021, 17, 1408-1412.	16.7	10
7	Particle-in-cell techniques for the study of space charge effects in an electrostatic ion beam trap. Physical Review E, 2021, 104, 065202.	2.1	5
8	Testing the weak interaction using St. Benedict at the University of Notre Dame. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 488-490.	1.4	11
9	Online tests of the Advanced Cryogenic Gas Stopper at NSCL. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 378-381.	1.4	7
10	Beam thermalization in a large gas catcher. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 305-309.	1.4	21
11	High-precision mass measurements of the isomeric and ground states of $^{44}\text{V}$ : Improving constraints on the isobaric multiplet mass equation parameters of the $^{44}\text{Ti}$ .	2.9	11
12	$Q$ -value $^{89}\text{Sr}$ $\beta^2$ -decay candidates	2.9	7
13	High-precision mass measurements of Ge and As isotopes near $N = Z$ . Nuclear Physics A, 2019, 989, 201-213.	1.5	2
14	Direct determination of the $^{138}\text{La}$ $\beta^2$ -decay $Q$ -value using Penning trap mass spectrometry. Physical Review C, 2019, 100, .	2.9	9
15	Precision mass measurements of $^{44}\text{V}$ and $^{44}\text{mV}$ for nucleon-nucleon interaction studies. Hyperfine Interactions, 2019, 240, 1.	0.5	2
16	Stopped, bunched beams for the TwinSol facility. Hyperfine Interactions, 2019, 240, 1.	0.5	11
17	SIPT - An ultrasensitive mass spectrometer for rare isotopes. Hyperfine Interactions, 2019, 240, 1.	0.5	5
18	High-Precision Mass Measurement of $^{56}\text{Cu}$ and the Redirection of the $r$ -Process Flow. Physical Review	7.8	25



#	ARTICLE	IF	CITATIONS
37	Development of a high-precision Penning trap magnetometer for the LEBIT facility. International Journal of Mass Spectrometry, 2015, 379, 1-8.	1.5	4
38	Penning trap mass measurement of $^{72}\text{Br}$ . Physical Review C, 2015, 91, .	2.9	11
39	Penning trap mass measurements utilizing highly charged ions as a path to benchmark isospin-symmetry breaking corrections in $^{74}\text{Rb}$ . Physical Review C, 2015, 91, .	2.9	11
40	A field programmable gate array-based time-resolved scaler for collinear laser spectroscopy with bunched radioactive potassium beams. Review of Scientific Instruments, 2014, 85, 093503.	1.3	19
41	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
42	Ion beam properties after mass filtering with a linear radiofrequency quadrupole. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 382-389.	1.6	6
43	LEBIT I: Upgrade and developments for high precision Penning trap mass measurements with rare isotopes. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 510-516.	2.9	19
44	LEBIT II: Upgrades and developments for high precision Penning trap mass measurements with rare isotopes. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 510-516.	1.4	11
45	Trapped-ion decay spectroscopy towards the determination of ground-state components of double-beta decay matrix elements. European Physical Journal A, 2013, 49, 1.	2.5	6
46	Penning trap mass spectrometry of rare isotopes produced via projectile fragmentation at the LEBIT facility. International Journal of Mass Spectrometry, 2013, 349-350, 87-93.	1.5	43
47	Examination of the possible enhancement of neutrinoless double-electron capture in $^{78}\text{Kr}$ . Physical Review C, 2013, 88, .	2.9	8
48	The NSCL cyclotron gas stopper $\hat{\epsilon}$ Under construction. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 463-467.	1.4	15
49	Charge breeding rare isotopes for high precision mass measurements: challenges and opportunities. Physica Scripta, 2013, T156, 014098.	2.5	9
50	First Direct Double- $\hat{\Gamma}^2$ Decay Value Measurement of $^{78}\text{Se}$ . Physical Review C, 2012, 85, .	7.8	54
51	The on-line charge breeding program at TRIUMF's Ion Trap For Atomic and Nuclear Science for precision mass measurements. Review of Scientific Instruments, 2012, 83, 02A912.	1.3	23
52	Highly charged ions in Penning traps: A new tool for resolving low-lying isomeric states. Physical Review C, 2012, 85, .	2.9	29
53	Atomic mass and double- $\hat{\Gamma}^2$ -decay value of $^{78}\text{Se}$ . Physical Review C, 2012, 85, .	2.9	18
54	Penning-trap mass measurements of the neutron-rich K and Ca isotopes: Resurgence of the $^{28}\text{N}$ shell strength. Physical Review C, 2012, 85, .	2.9	27

#	ARTICLE	IF	CITATIONS
55	Direct Mass Measurement of the Two-Neutron Halo Nucleus ${}^6\text{He}$ and Improved Mass for the Four-Neutron Halo ${}^9\text{Li}$ . Physical Review Letters, 2012, 108, 212501.	7.8	86
56	Elucidation of the Anomalous Isospin Quartet Behavior. Physical Review Letters, 2012, 108, 212501.	7.8	30
57	Verifying the accuracy of the TITAN Penning-trap mass spectrometer. International Journal of Mass Spectrometry, 2012, 310, 20-31.	1.5	53
58	TITAN's digital RFQ ion beam cooler and buncher, operation and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 676, 32-43.	1.6	83
59	High precision Penning trap mass spectrometry of rare isotopes produced by projectile fragmentation. Journal of Physics: Conference Series, 2011, 312, 092035.	0.4	0
60	Design of a $\beta^+$ -detector for TITAN-EC and the first electron-capture branching ratio measurement in a Penning trap. Journal of Physics: Conference Series, 2011, 312, 072006.	0.4	3
61	Precision mass measurements of neutron halo nuclei using the TITAN Penning trap. Hyperfine Interactions, 2011, 199, 167-173.	0.5	7
62	In-trap decay spectroscopy for $2\beta^+$ decay experiments. Hyperfine Interactions, 2011, 199, 191-199.	0.5	4
63	Technical developments for an upgrade of the LEBIT Penning trap mass spectrometry facility for rare isotopes. Hyperfine Interactions, 2011, 199, 241-249.	0.5	2
64	High-precision Penning trap mass measurements of $\beta^+$ elements produced via projectile fragmentation with LEBIT. Hyperfine Interactions, 2011, 199, 251-259.	0.5	3
65	3DCylPIC: A 3D particle-in-cell code in cylindrical coordinates for space charge simulations of ion trap and ion transport devices. International Journal of Mass Spectrometry, 2011, 303, 42-50.	1.5	12
66	First Use of High Charge States for Mass Measurements of Short-Lived Nuclides in a Penning Trap. Physical Review Letters, 2011, 107, 272501.	7.8	64
67	Technical developments for an upgrade of the LEBIT Penning trap mass spectrometry facility for rare isotopes. , 2011, , 241-249.		0
68	Precision mass measurements of neutron halo nuclei using the TITAN Penning trap. , 2011, , 167-173.		0
69	In-trap decay spectroscopy for $2\beta^+$ decay experiments. , 2011, , 191-199.		0
70	High-precision Penning trap mass measurements of $\beta^+$ elements produced via projectile fragmentation with LEBIT. , 2011, , 251-259.		0
71	TITAN-EBIT $\beta^+$ charge breeding of radioactive isotopes for high precision mass measurements. Journal of Instrumentation, 2010, 5, C08009-C08009.	1.2	1
72	Recent high-precision Penning trap mass measurements performed at LEBIT. Hyperfine Interactions, 2010, 196, 215-217.	0.5	2

#	ARTICLE	IF	CITATIONS
73	The TITAN EBIT charge breeder for mass measurements on highly charged short-lived isotopes—First online operation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 54-64.	1.6	79
74	Penning trap mass spectrometry of neutron-rich Fe and Co isotopes around $N=40$ with the LEBIT mass spectrometer. Physical Review C, 2010, 81, .	2.9	34
75	Precision ground state mass of $^{12}\text{Be}$ and an isobaric multiplet mass equation (IMME) extrapolation for $^{12}\text{Be}$ and $^{12}\text{Li}$ . Physical Review Letters, 2009, 102, 132501.	2.9	26
76	Recent high-precision Penning trap mass measurements performed at LEBIT. , 2010, , 215-217.		0
77	High-precision Penning trap mass measurements of neutron-rich sulfur isotopes at the $^{28}\text{S}$ shell closure. Physical Review C, 2009, 80, .	2.9	21
78	Process and Masses of $^{34}\text{Ar}$ . Physical Review Letters, 2009, 102, 132501.	7.8	56
79	New mass measurement of $^6\text{Li}$ and ppb-level systematic studies of the Penning trap mass spectrometer TITAN. Physical Review C, 2009, 80, .	2.9	52
80	In-Trap Decay Spectroscopy of Radioactive Nuclei at TITAN—TRIUMF for a Determination of $^{21}\text{F}$ Matrix Elements. , 2009, , .		3
81	The LEBIT 9.4T Penning trap mass spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 536-547.	1.6	68
82	High-precision Penning trap mass measurements of $^9\text{Be}$ , $^{10}\text{Be}$ and the one-neutron halo nuclide $^{11}\text{Be}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 675, 170-174.	4.1	46
83	Charged particle transport and extraction studies in the NSCL gas cell for stopping radioactive fragments. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4471-4474.	1.4	9
84	Mass measurements of rare isotopes with the LEBIT facility at the NSCL. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4521-4526.	1.4	7
85	Electron capture branching ratio measurements in an ion trap for double beta decay experiments at TITAN. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4643-4646.	1.4	13
86	First Penning-Trap Mass Measurement of the Exotic Halo Nucleus $^{11}\text{Li}$ . Physical Review Letters, 2008, 101, 202501.	7.8	174
87	Direct Mass Measurement of the Four-Neutron Halo Nuclide $^8\text{He}$ . Physical Review Letters, 2008, 101, 012501.	7.8	60
88	Discovery of a Nuclear Isomer in $^{65}\text{Fe}$ with Penning Trap Mass Spectrometry. Physical Review Letters, 2008, 100, 132501.	7.8	85
89	Precision mass measurements of rare isotopes near $N=Z=33$ produced by fast beam fragmentation. Physical Review C, 2007, 75, .	2.9	103
90	High-precision Penning trap mass measurements of $^{37}\text{Ca}$ , $^{38}\text{Ca}$ and their contributions to conserved vector current and isobaric mass multiplet equation. Physical Review C, 2007, 75, .	2.9	79

#	ARTICLE	IF	CITATIONS
91	Octupolar excitation of ion motion in a Penning trap—A study performed at LEBIT. International Journal of Mass Spectrometry, 2007, 262, 33-44.	1.5	54
92	A $\text{E} \times \text{E}$ Lorentz steerer for ion injection into a Penning trap. International Journal of Mass Spectrometry, 2007, 263, 38-44.	1.5	50
93	Penning trap mass measurements of rare isotopes produced by projectile fragmentation with LEBIT at NSCL. European Physical Journal: Special Topics, 2007, 150, 337-341.	2.6	8
94	Octupolar excitation of ion motion in a penning trap. Hyperfine Interactions, 2007, 174, 9-14.	0.5	0
95	The LEBIT facility at MSU. , 2007, , 269-278.		0
96	Beam purification techniques for low energy rare isotope beams from a gas cell. , 2007, , 321-326.		0
97	Octupolar excitation of ion motion in a penning trap. , 2007, , 365-370.		0
98	Precision mass measurements with LEBIT at MSU. International Journal of Mass Spectrometry, 2006, 251, 300-306.	1.5	60
99	The LEBIT facility at MSU. Hyperfine Interactions, 2006, 173, 113-122.	0.5	5
100	Beam purification techniques for low energy rare isotope beams from a gas cell. Hyperfine Interactions, 2006, 173, 165-170.	0.5	33
101	Experiments with Thermalized Rare Isotope Beams from Projectile Fragmentation: A Precision Mass Measurement of the Superallowed $^2\text{E} \text{mitterCa}38$ . Physical Review Letters, 2006, 96, 152501.	7.8	105
102	Commissioning of the ion beam buncher and cooler for LEBIT. European Physical Journal A, 2005, 25, 61-62.	2.5	35
103	Precision experiments with rare isotopes with LEBIT at MSU. European Physical Journal A, 2005, 25, 51-52.	2.5	13
104	The LEBIT 9.4 T Penning trap system. European Physical Journal A, 2005, 25, 59-60.	2.5	16
105	Conversion of $^{38}\text{Ca}/^{37}\text{K}$ projectile fragments into thermalized ion beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 540, 245-258.	1.6	71
106	Commissioning of the ion beam buncher and cooler for LEBIT. , 2005, , 61-62.		1
107	Precision experiments with rare isotopes with LEBIT at MSU. , 2005, , 51-52.		0
108	Towards precision experiments with LEBIT at NSCL/MSU. Nuclear Physics A, 2004, 746, 597-603.	1.5	1

#	ARTICLE	IF	CITATIONS
109	Beam cooling at the low-energy-beam and ion-trap facility at NSCL/MSU. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 532, 203-209.	1.6	27
110	A second-generation ion beam buncher and cooler. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 474-477.	1.4	63
111	The low-energy-beam and ion-trap facility at NSCL/MSU. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 507-511.	1.4	58
112	LEBIT – a low-energy beam and ion trap facility at NSCL/MSU. AIP Conference Proceedings, 2003, , .	0.4	0
113	Laser trapping of microscopic particles for undergraduate experiments. American Journal of Physics, 2000, 68, 993-1001.	0.7	16