

Ryan J Ringle

List of Publications by Year in descending order

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113
papers

2,668
citations

172457

29
h-index

206112

48
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115
all docs

115
docs citations

115
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	First Penning-Trap Mass Measurement of the Exotic Halo Nucleus ${}^{11}\text{Li}$. Physical Review Letters, 2008, 101, 202501.	7.8	174
2	Experiments with Thermalized Rare Isotope Beams from Projectile Fragmentation: A Precision Mass Measurement of the Superallowed ${}^{48}\text{Ca}$ Emitter. Physical Review Letters, 2006, 96, 152501.	7.8	105
3	Precision mass measurements of rare isotopes near $N=Z=33$ produced by fast beam fragmentation. Physical Review C, 2007, 75, .	2.9	103
4	First Direct Mass Measurement of the Two-Neutron Halo Nucleus ${}^6\text{He}$ and Improved Mass for the Four-Neutron Halo ${}^8\text{He}$. Physical Review Letters, 2008, 101, 012501.	7.8	86
5	Discovery of a Nuclear Isomer in ${}^{65}\text{Fe}$ with Penning Trap Mass Spectrometry. Physical Review Letters, 2008, 100, 132501.	7.8	85
6	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
7	High-precision Penning trap mass measurements of ${}^{37,38}\text{Ca}$ and their contributions to conserved vector current and isobaric mass multiplet equation. Physical Review C, 2007, 75, .	2.9	79
8	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
9	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
10	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
11	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
12	A second-generation ion beam buncher and cooler. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 474-477.	1.4	63
13	Precision mass measurements with LEBIT at MSU. International Journal of Mass Spectrometry, 2006, 251, 300-306.	1.5	60
14	Direct Mass Measurement of the Four-Neutron Halo Nuclide ${}^8\text{He}$. Physical Review Letters, 2008, 101, 012501.	7.8	60
15	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
16	Process and Masses of ${}^{\infty}\text{N}$. Physical Review Letters, 2009, 102, 132501.	7.8	56
17	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
18	Decay Q -Value Measurement of ${}^{76}\text{Se}$. Physical Review Letters, 2009, 102, 132501.	7.8	54

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19	Verifying the accuracy of the TITAN Penning-trap mass spectrometer. International Journal of Mass Spectrometry, 2012, 310, 20-31.	1.5	53
20	New mass measurement of Li6 and ppb-level systematic studies of the Penning trap mass spectrometer TITAN. Physical Review C, 2009, 80, .	2.9	52
21	A σ -Lorentz σ -steerer for ion injection into a Penning trap. International Journal of Mass Spectrometry, 2007, 263, 38-44.	1.5	50
22	High-precision Penning trap mass measurements of ^9Be , ^{10}Be and the one-neutron halo nuclide ^{11}Be . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 675, 170-174.	4.1	46
23	The LEBIT ion cooler and buncher. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 816, 131-141.	1.6	45
24	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
25	Commissioning of the ion beam buncher and cooler for LEBIT. European Physical Journal A, 2005, 25, 61-62.	2.5	35
26	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
27	^{96}Zr and atomic mass	2.9	34
28	Beam purification techniques for low energy rare isotope beams from a gas cell. Hyperfine Interactions, 2006, 173, 165-170.	0.5	33
29	Elucidation of the Anomalous $A=9$ Isospin Quartet Behavior. Physical Review Letters, 2012, 108, 212501.	7.8	30
30	Highly charged ions in Penning traps: A new tool for resolving low-lying isomeric states. Physical Review C, 2012, 85, .	2.9	29
31	RFQ beam cooler and buncher for collinear laser spectroscopy of rare isotopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 866, 18-28.	1.6	29
32	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
33	Penning-trap mass measurements of the neutron-rich K and Ca isotopes: Resurgence of the ^{28}K shell	2.9	27
34	Precision ground-state mass of ^{12}Be and an isobaric multiplet mass equation (IMME) extrapolation for ^{36}K	2.9	26
35	Charge radii of neutron-deficient ^{56}Cu and the redefinition of the ^{56}Cu mass	7.8	25
36	Charge radii of neutron-deficient ^{36}K and ^{37}K	2.9	24

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37	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
38	High-precision Penning trap mass measurements of neutron-rich sulfur isotopes at the shell closure. Physical Review C, 2009, 80, .	2.9	21
39	Beam thermalization in a large gas catcher. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 305-309.	1.4	21
40	First direct determination of the ^{48}Ca double- β decay Q value. Physical Review Letters, 2019, 123, 022501.	2.9	19
41	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
42	First Direct Determination of the Superallowed ^{48}Ca β -Decay Q Value. Physical Review Letters, 2019, 123, 022501.	7.8	19
43	Atomic mass and double- β decay Q value of ^{32}N and ^{32}O . Physical Review Letters, 2019, 123, 022501.	7.8	19
44	Shell model calculation of the ^{32}N β -decay Q value. Physical Review Letters, 2019, 123, 022501.	2.9	18
45	Isobaric beam purification for high precision Penning trap mass spectrometry of radioactive isotope beams with SWIFT. International Journal of Mass Spectrometry, 2015, 379, 9-15.	1.5	18
46	First two operational years of the electron-beam ion trap charge breeder at the National Superconducting Cyclotron Laboratory. Physical Review Accelerators and Beams, 2018, 21, .	1.6	17
47	Laser trapping of microscopic particles for undergraduate experiments. American Journal of Physics, 2000, 68, 993-1001.	0.7	16
48	The LEBIT 9.4 T Penning trap system. European Physical Journal A, 2005, 25, 59-60.	2.5	16
49	The NSCL cyclotron gas stopper "Under construction. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 463-467.	1.4	15
50	A laser ablation source for offline ion production at LEBIT. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 60-63.	1.4	14
51	Precision experiments with rare isotopes with LEBIT at MSU. European Physical Journal A, 2005, 25, 51-52.	2.5	13
52	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
53	of the ^{13}N β -decay Q value. Physical Review Letters, 2019, 123, 022501.	2.9	13
54	Double resonant enhancement in the neutrinoless double-electron capture of ^{190}Pt . Physical Review C, 2016, 94, .	2.9	13

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55	High-precision mass measurements of ^{138}La and ^{138}Ce using a Penning trap mass spectrometer. Physical Review C, 2018, 97, .	2.9	13
56	Precision mass measurements of neutron-rich Co isotopes beyond ^{60}Co . Physical Review C, 2018, 97, .	2.9	10
57	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
58	High Precision Determination of the ^{138}La Decay Value of ^{138}La . Physical Review C, 2015, 91, .	7.8	12
59	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
60	Penning trap mass measurement of ^{72}Br . Physical Review C, 2015, 91, .	2.9	11
61	Penning trap mass measurements utilizing highly charged ions as a path to benchmark isospin-symmetry breaking corrections in ^{74}Rb . Physical Review C, 2015, 91, .	2.9	11
62	Stopped, bunched beams for the TwinSol facility. Hyperfine Interactions, 2019, 240, 1.	0.5	11
63	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
64	High-precision mass measurements of the isomeric and ground states of ^{44}V : Improving constraints on the isobaric multiplet mass equation parameters of the ^{44}Ti . Physical Review C, 2019, 99, .	2.9	11
65	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
66	Precise determination of the ^{113}Cd fourth-forbidden non-unique β^2 -decay Q value. Physical Review C, 2016, 94, .	2.9	10
67	Precision mass measurement of lightweight self-conjugate nucleus ^{80}Zr . Nature Physics, 2021, 17, 1408-1412.	16.7	10
68	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
69	Charge breeding rare isotopes for high precision mass measurements: challenges and opportunities. Physica Scripta, 2013, T156, 014098.	2.5	9
70	Direct determination of the ^{138}La decay value using Penning trap mass spectrometry. Physical Review C, 2019, 100, .	2.9	9
71	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
72	Examination of the possible enhancement of neutrinoless double-electron capture in ^{78}Kr . Physical Review C, 2013, 88, .	2.9	8

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73	Measurement of ^{51}Fe for the determination of the ^{51}Fe β -decay candidates	2.9	8
74	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
75	Precision mass measurements of neutron halo nuclei using the TITAN Penning trap. Hyperfine Interactions, 2011, 199, 167-173.	0.5	7
76	Investigation of the potential ultralow Q -value β -decay candidates ^{89}Sr and ^{89}Y	2.9	7
77	Online tests of the Advanced Cryogenic Gas Stopper at NSCL. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 378-381.	1.4	7
78	First Penning trap mass measurement of ^{36}Ca	1.4	7
79	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
80	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
81	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
82	The LEBIT facility at MSU. Hyperfine Interactions, 2006, 173, 113-122.	0.5	5
83	SIPT - An ultrasensitive mass spectrometer for rare isotopes. Hyperfine Interactions, 2019, 240, 1.	0.5	5
84	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
85	In-trap decay spectroscopy for $2\frac{1}{2}^+$ decay experiments. Hyperfine Interactions, 2011, 199, 191-199.	0.5	4
86	Fabrication and characterization of field emission points for ion production in Penning trap applications. International Journal of Mass Spectrometry, 2015, 379, 187-193.	1.5	4
87	Development of a high-precision Penning trap magnetometer for the LEBIT facility. International Journal of Mass Spectrometry, 2015, 379, 1-8.	1.5	4
88	In-Trap Decay Spectroscopy of Radioactive Nuclei at TITAN-TRIUMF for a Determination of $2\frac{1}{2}^+$ Matrix Elements. , 2009, , .		3
89	Design of a β -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
90	High-precision Penning trap mass measurements of β^- elements produced via projectile fragmentation with LEBIT. Hyperfine Interactions, 2011, 199, 251-259.	0.5	3

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91	Recent high-precision Penning trap mass measurements performed at LEBIT. <i>Hyperfine Interactions</i> , 2010, 196, 215-217.	0.5	2
92	Technical developments for an upgrade of the LEBIT Penning trap mass spectrometry facility for rare isotopes. <i>Hyperfine Interactions</i> , 2011, 199, 241-249.	0.5	2
93	Commissioning of the collinear laser spectroscopy facility BECOLA at NSCL/MSU. <i>Hyperfine Interactions</i> , 2015, 230, 57-63.	0.5	2
94	High-precision mass measurements of Ge and As isotopes near N = Z. <i>Nuclear Physics A</i> , 2019, 989, 201-213.	1.5	2
95	Precision mass measurements of 44V and 44mV for nucleon-nucleon interaction studies. <i>Hyperfine Interactions</i> , 2019, 240, 1.	0.5	2
96	High-precision mass measurement of ^{24}Si and a refined determination of the r_p process at the ^{24}Si .	2.9	2
97	Towards precision experiments with LEBIT at NSCL/MSU. <i>Nuclear Physics A</i> , 2004, 746, 597-603.	1.5	1
98	TITAN-EBIT α charge breeding of radioactive isotopes for high precision mass measurements. <i>Journal of Instrumentation</i> , 2010, 5, C08009-C08009.	1.2	1
99	On-line operation of the EBIT charge breeder of the ReA post-accelerator. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
100	Commissioning of the ion beam buncher and cooler for LEBIT. , 2005, , 61-62.		1
101	Improved nuclear physics near $A=61$ refines urca neutrino luminosities in accreted neutron star crusts. <i>Physical Review C</i> , 2022, 105, .	2.0	1
102	LEBIT α a low-energy beam and ion trap facility at NSCL/MSU. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0
103	Octupolar excitation of ion motion in a penning trap. <i>Hyperfine Interactions</i> , 2007, 174, 9-14.	0.5	0
104	High precision Penning trap mass spectrometry of rare isotopes produced by projectile fragmentation. <i>Journal of Physics: Conference Series</i> , 2011, 312, 092035.	0.4	0
105	The LEBIT facility at MSU. , 2007, , 269-278.		0
106	Beam purification techniques for low energy rare isotope beams from a gas cell. , 2007, , 321-326.		0
107	Octupolar excitation of ion motion in a penning trap. , 2007, , 365-370.		0
108	Recent high-precision Penning trap mass measurements performed at LEBIT. , 2010, , 215-217.		0

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109	Technical developments for an upgrade of the LEBIT Penning trap mass spectrometry facility for rare isotopes. , 2011, , 241-249.		0
110	Precision mass measurements of neutron halo nuclei using the TITAN Penning trap. , 2011, , 167-173.		0
111	In-trap decay spectroscopy for $2\hat{1}/2\hat{1}^2\hat{1}^2$ decay experiments. , 2011, , 191-199.		0
112	High-precision Penning trap mass measurements of "difficult" elements produced via projectile fragmentation with LEBIT. , 2011, , 251-259.		0
113	Precision experiments with rare isotopes with LEBIT at MSU. , 2005, , 51-52.		0