Kyle G Leach

List of Publications by Citations

108 papers	1,154 citations	19 h-index	27 g-index
135 ext. papers	1,411 ext. citations	3 avg, IF	3 L-index

#	Paper	IF	Citations
108	Dawning of the N=32 Shell Closure Seen through Precision Mass Measurements of Neutron-Rich Titanium Isotopes. *Physical Review Letters*, **2018**, 120, 062503	7.4	56
107	Structure of states in 12Be via the 11Be(. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2010**, 682, 391-395	4.2	55
106	Observations on liver regeneration after right hepatic lobectomy. *Gut*, **1971**, 12, 922-8	19.2	45
105	The MR-TOF-MS isobar separator for the TITAN facility at TRIUMF. *Hyperfine Interactions*, **2015**, 235, 97-108	0.8	43
104	Collective structure in 94Zr and subshell effects in shape coexistence. *Physical Review Letters*, **2013**, 110, 022504	7.4	40
103	Detailed spectroscopy of 110Cd: Evidence for weak mixing and the emergence of soft behavior. *Physical Review C*, **2012**, 86,	2.7	39
102	High-precision half-life measurement for the superallowed + emitter Al(m). *Physical Review Letters*, **2011**, 106, 032501	7.4	36
101	Degeneracy at 1871 keV in Cd112 and implications for neutrinoless double electron capture. *Physical Review C*, **2009**, 80,	2.7	32
100	Breakdown of the isobaric multiplet mass equation for the A = 20 and 21 multiplets. *Physical Review Letters*, **2014**, 113, 082501	7.4	31
99	Multiple Shape Coexistence in ^{110,112}Cd. *Physical Review Letters*, **2019**, 123, 142502	7.4	26
98	Narrowing of the neutron sdf shell gap in 29Na. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2009**, 674, 168-171	4.2	26
97	Pile-up corrections for high-precision superallowed decay half-life measurements via ray photopeak counting. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 579, 1005-1033	1.2	25
96	In-trap spectroscopy of charge-bred radioactive ions. *Physical Review Letters*, **2014**, 113, 082502	7.4	24
95	High-precision branching ratio measurement for the superallowed + emitter Ga62. *Physical Review C*, **2008**, 78,	2.7	23
94	Precision mass measurements of Cd125127 isotopes and isomers approaching the N=82 closed shell. *Physical Review C*, **2017**, 96,	2.7	21
93	Halo-induced large enhancement of soft dipole excitation of 11Li observed via proton inelastic scattering. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2017**, 774, 268-272	4.2	21
92	Shape coexistence and evolution in Sr98. *Physical Review C*, **2016**, 93,	2.7	20

91	Reorientation-effect measurement of the <21+||E2 ||21+> matrix element in 10Be. *Physical Review C*, **2012**, 86,	2.7	20
90	High-precision half-life determination for the superallowed □+ emitter Ga62. *Physical Review C*, **2008**, 77,	2.7	20
89	Coulomb excitation of radioactive Na21 and its stable mirror Ne21. *Physical Review C*, **2008**, 78,	2.7	19
88	The TRIUMF nuclear structure program and TIGRESS. *Nuclear Instruments & Methods in Physics Research B*, **2007**, 261, 1084-1088	1.2	19
87	The TITAN in-trap decay spectroscopy facility at TRIUMF. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2015**, 780, 91-99	1.2	17
86	High-precision half-life measurements for the superallowed Fermi □+ emitter 14O. *Physical Review C*, **2013**, 88,	2.7	17
85	Internal gamma decay and the superallowed branching ratio for the beta(+) emitter (38)K(m). *Physical Review Letters*, **2008**, 100, 192504	7.4	17
84	Comparison of deuterated and normal liquid scintillators for fast-neutron detection. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 729, 188-197	1.2	16
83	Mass measurements of neutron-rich Rb and Sr isotopes. *Physical Review C*, **2016**, 93,	2.7	15
82	Structure of the K□4+ bands in Os186,188. *Physical Review C*, **2010**, 82,	2.7	15
81	Ground-state and pairing-vibrational bands with equal quadrupole collectivity in Xe124. *Physical Review C*, **2015**, 91,	2.7	14
80	The TIGRESS Integrated Plunger ancillary systems for electromagnetic transition rate studies at TRIUMF. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 746, 87-97	1.2	14
79	High-precision half-life measurements for the superallowed Fermi □+ emitter Ne18. *Physical Review C*, **2015**, 92,	2.7	13
78	Coulomb excitation of the proton-dripline nucleus Na20. *Physical Review C*, **2009**, 80,	2.7	13
77	Direct observation of the Ba114->Xe110->Te106->Sn102 triple □decay chain using position and time correlations. *Physical Review C*, **2016**, 94,	2.7	12
76	Far From □asy□Spectroscopy with the 8□and GRIFFIN Spectrometers at TRIUMF-ISAC. *Journal of Physics: Conference Series*, **2015**, 639, 012006	0.3	12
75	High-precision branching-ratio measurement for the superallowed □+ emitter 74Rb. *Physical Review C*, **2013**, 88,	2.7	12
74	Shell evolution approaching the N= 20 island of inversion: Structure of 26Na. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2016**, 759, 417-423	4.2	11

73	Mass measurements of neutron-rich indium isotopes toward the N=82 shell closure. *Physical Review C*, **2018**, 97,	2.7	10
72	Reorientation-effect measurement of the first 2+ state in 12C: Confirmation of oblate deformation. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2018**, 777, 250-254	4.2	10
71	Direct Observation of Proton Emission in ^{11}Be. *Physical Review Letters*, **2019**, 123, 082501	7.4	10
70	TITAN: an ion trap for accurate mass measurements of ms-half-life nuclides. *Applied Physics B: Lasers and Optics*, **2014**, 114, 99-105	1.9	10
69	High-precision branching-ratio measurement for the superallowed □+ emitter 26Alm. *Physical Review C*, **2012**, 85,	2.7	10
68	The GRIFFIN facility for Decay-Spectroscopy studies at TRIUMF-ISAC. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 918, 9-29	1.2	10
67	. *Acta Physica Polonica B*, **2011**, 42, 799	1.9	9
66	Prediction of human spleen size by computer analysis of splenic scintigrams. *British Journal of Radiology*, **1976**, 49, 151-5	3.4	9
65	Conversion electron study of 110Cd: Evidence of new E0 branches. *European Physical Journal A*, **2016**, 52, 1	2.5	9
64	Precision mass measurements of magnesium isotopes and implications for the validity of the isobaric mass multiplet equation. *Physical Review C*, **2017**, 96,	2.7	8
63	Upgrade of the SPIRAL identification station for high-precision measurements of nuclear □decay. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 741, 18-25	1.2	8
62	Excited 0+ states in 62Zn populated via the 64Zn(p,t)62Zn reaction. *Physical Review C*, **2013**, 88,	2.7	8
61	Geant4 Developments for the Radon Electric Dipole Moment Search at TRIUMF. *Journal of Physics: Conference Series*, **2011**, 312, 102013	0.3	8
60	In vivo assessment of liver size in the rat. *Journal of Nuclear Medicine*, **1975**, 16, 380-5	8.9	8
59	Mass measurements of neutron-rich gallium isotopes refine production of nuclei of the first r-process abundance peak in neutron-star merger calculations. *Physical Review C*, **2020**, 101,	2.7	7
58	Improvements to TITAN□ mass measurement and decay spectroscopy capabilities. *Nuclear Instruments & Methods in Physics Research B*, **2016**, 376, 292-297	1.2	7
57	Electroweak Decay Studies of Highly Charged Radioactive Ions with TITAN at TRIUMF. *Atoms*, **2017**, 5, 14	2.1	7
56	First direct mass measurement of the neutron-deficient nucleus Al24. *Physical Review C*, **2015**, 92,	2.7	7

55	Lifetime measurements of states in O15. *Physical Review C*, **2014**, 90,	2.7	7
54	Quadrupole-octupole coupled states in Cd112 populated in the Cd111(d ,p) reaction. *Physical Review C*, **2014**, 90,	2.7	7
53	The effect of angiotensin I and II on hind-limb blood flow in sheep. *Journal of Pharmacy and Pharmacology*, **1971**, 23, 466-8	4.8	7
52	Isospin symmetry in B(E2) values: Coulomb excitation study of Mg21. *Physical Review C*, **2019**, 99,	2.7	6
51	Benchmarking 136Xe neutrinoless □□decay matrix element calculations with the 138Ba(p,t) reaction. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2020**, 809, 135702	4.2	6
50	Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. *Journal of Instrumentation*, **2020**, 15, P01019-P01019	1	6
49	Shape coexistence and multiparticle-multihole structures in Cd110,112. *Physical Review C*, **2020**, 101,	2.7	6
48	Simulation of charge readout with segmented tiles in nEXO. *Journal of Instrumentation*, **2019**, 14, P09020-P09020	1	6
47	Precision QEC-value measurement of Mg23 for testing the Cabibbo-Kobayashi-Maskawa matrix unitarity. *Physical Review C*, **2014**, 90,	2.7	6
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44	Limits on the Existence of sub-MeV Sterile Neutrinos from the Decay of ^{7}Be in Superconducting Quantum Sensors. *Physical Review Letters*, **2021**, 126, 021803	7.4	6
43	Mass determination near N=20 for Al and Na isotopes. *Physical Review C*, **2017**, 96,	2.7	5
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41	DESCANT and□-delayed neutron measurements at TRIUMF. *EPJ Web of Conferences*, **2015**, 93, 07005	0.3	5
40	Portal venous injection in the rat. *Gut*, **1971**, 12, 585-91	19.2	5
39	Searching for 0+ states in Cr50: Implications for the superallowed □decay of Mn50. *Physical Review C*, **2016**, 94,	2.7	4
38	Scattering of 30 MeV He3 from Re185. *Physical Review C*, **2009**, 79,	2.7	4

37	TRIUMF-ISAC Gamma-Ray Escape-Suppressed Spectrometer (TIGRESS): a versatile tool for radioactive beam physics. *Nuclear Physics A*, **2007**, 787, 118-125	1.3	4
36	Direct Measurement of the ^{7}Be L/K Capture Ratio in Ta-Based Superconducting Tunnel Junctions. *Physical Review Letters*, **2020**, 125, 032701	7.4	4
35	High-Statistics Study of the+/EC-Decay of110In. *EPJ Web of Conferences*, **2014**, 66, 02029	0.3	3
34	High-precision half-life measurement for the superallowed Fermi + emitter Mg22. *Physical Review C*, **2017**, 96,	2.7	3
33	Coulomb excitation of radioactive 20, 21Na. *European Physical Journal A*, **2009**, 42, 477	2.5	3
32	Absence of Low-Energy Shape Coexistence in ^{80}Ge: The Nonobservation of a Proposed Excited 0_{2}^{+} Level at 639keV. *Physical Review Letters*, **2020**, 125, 172501	7.4	3
31	Conversion electrons from high-statistics-decay measurements with the 8pectrometer at TRIUMF-ISAC. *EPJ Web of Conferences*, **2016**, 123, 02005	0.3	3
30	Structure of ^{26}Na via a Novel Technique Using ($d,pgamma $) with a Radioactive ^{25}Na Beam. *Acta Physica Polonica B*, **2015**, 46, 527	1.9	2
29	Observation of the 02+ and bands in 98Ru, and shape coexistence in the Ru isotopes. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2020**, 809, 135762	4.2	2
28	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	2.9	2
27	Observation of a large -delayed neutron emission component in Rb102 decay and identification of excited states in Sr102. *Physical Review C*, **2016**, 93,	2.7	2
26	Low-Background In-Trap Decay Spectroscopy with TITAN at TRIUMF **2015**,		2
25	Structure of the K= 4+ bands in 186,188Os **2009**,		2
24	Notes on the preparation of technetium-99m labelled albumin. *The International Journal of Applied Radiation and Isotopes*, **1971**, 22, 53-4		2
23	Testing isospin symmetry breaking in ab initio nuclear theory. *Physical Review C*, **2021**, 104,	2.7	2
22	Detailed spectroscopy of Ca46: A study of the decay of K46. *Physical Review C*, **2019**, 100,	2.7	2
21	Mass measurements of neutron-rich indium isotopes for r-process studies. *Physical Review C*, **2021**, 103,	2.7	2
20	Nuclear structure of Cd112 studied through the Cd111(d ,p) reaction. *Physical Review C*, **2018**, 98,	2.7	2

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18	Spectroscopic study of Ca47 from the □□decay of K47. *Physical Review C*, **2020**, 102,	2.7	1
17	Precision mass measurements of short-lived nuclides for nuclear structure studies at TITAN. *EPJ Web of Conferences*, **2014**, 66, 02030	0.3	1
16	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	1.2	1
15	Doppler-shift attenuation lifetime measurement of the Ar3621+ level. *Physical Review C*, **2017**, 96,	2.7	1
14	Sensitivity Increases for the TITAN Decay Spectroscopy Program. *EPJ Web of Conferences*, **2015**, 93, 07006	0.3	1
13	Nuclear Structure of124Xe Studied with □+/EC-Decay **2015**,		1
12	Reflectivity of VUV-sensitive silicon photomultipliers in liquid Xenon. *Journal of Instrumentation*, **2021**, 16, P08002	1	1
11	Investigation of excited 0+ states in 160Er populated via the (p, t) two-neutron transfer reaction. *EPJ Web of Conferences*, **2018**, 178, 02025	0.3	0
10	Corrigendum to Benchmarking 136Xe neutrinoless □□decay matrix element calculations with the 138Ba(p,t) reaction□[Phys. Lett. B 809 (2020) 135702]. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2021**, 820, 136532	4.2	0
9	High-Precision Half-life Measurements for the Superallowed□+Emitter14O. *EPJ Web of Conferences* , **2014**, 66, 05012	0.3	
8	High-precision half-life and branching-ratio measurements for superallowed Fermi□+emitters at TRIUMF □SAC. *EPJ Web of Conferences*, **2014**, 66, 05013	0.3	
7	New decay modes of the high-spin isomer of 124Cs. *European Physical Journal A*, **2017**, 53, 1	2.5	
6	The DEuterated SCintillator Array for Neutron Tagging. *EPJ Web of Conferences*, **2014**, 66, 11040	0.3	
5	Investigation of the E2 and E3 matrix elements in200Hg using inelastic scattering. *EPJ Web of Conferences*, **2014**, 66, 02088	0.3	
4	Investigations of Spectroscopic Factors and Sum Rules from the Single Neutron Transfer Reaction111Cd($overrightarrow {rm{d}} $,p)112Cd. *EPJ Web of Conferences*, **2014**, 66, 02056	0.3	
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2	Multiple Shape Coexistence in 110,112Cd and Beyond Mean Field Calculations. *Journal of Physics: Conference Series*, **2020**, 1643, 012131	0.3	

1 High-precision half-life determination of ^{14}O via direct $$beta $$□counting. *European Physical Journal A*, **2022**, 58, 1 2.5