

# Kyle G Leach

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	High-precision half-life determination of $^{14}\text{O}$ via direct $\beta$ counting. <i>European Physical Journal A</i> , <b>2022</b> , 58, 1	2.5	
107	Testing isospin symmetry breaking in ab initio nuclear theory. <i>Physical Review C</i> , <b>2021</b> , 104,	2.7	2
106	Mass measurements of neutron-rich indium isotopes for r-process studies. <i>Physical Review C</i> , <b>2021</b> , 103,	2.7	2
105	Reflectivity of VUV-sensitive silicon photomultipliers in liquid Xenon. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P08002	1	1
104	Corrigendum to Benchmarking $^{136}\text{Xe}$ neutrinoless $\beta\beta$ decay matrix element calculations with the $^{138}\text{Ba}(p,t)$ reaction [Phys. Lett. B 809 (2020) 135702]. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 820, 136532	4.2	0
103	Limits on the Existence of sub-MeV Sterile Neutrinos from the Decay of $^7\text{Be}$ in Superconducting Quantum Sensors. <i>Physical Review Letters</i> , <b>2021</b> , 126, 021803	7.4	6
102	Benchmarking $^{136}\text{Xe}$ neutrinoless $\beta\beta$ decay matrix element calculations with the $^{138}\text{Ba}(p,t)$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 809, 135702	4.2	6
101	Spectroscopic study of $\text{Ca}47$ from the $\beta\beta$ decay of $\text{K}47$ . <i>Physical Review C</i> , <b>2020</b> , 102,	2.7	1
100	Observation of the $0_2^+$ and $1_1^-$ bands in $^{98}\text{Ru}$ , and shape coexistence in the Ru isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 809, 135762	4.2	2
99	Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P01019-P01019	1	6
98	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> , <b>2020</b> , 47, 045113	2.9	2
97	Mass measurements of neutron-rich gallium isotopes refine production of nuclei of the first r-process abundance peak in neutron-star merger calculations. <i>Physical Review C</i> , <b>2020</b> , 101,	2.7	7
96	Shape coexistence and multiparticle-multihole structures in $\text{Cd}110,112$ . <i>Physical Review C</i> , <b>2020</b> , 101,	2.7	6
95	Multiple Shape Coexistence in $^{110,112}\text{Cd}$ and Beyond Mean Field Calculations. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1643, 012131	0.3	
94	Absence of Low-Energy Shape Coexistence in $^{80}\text{Ge}$ : The Nonobservation of a Proposed Excited $0_2^{+}$ Level at 639 keV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 172501	7.4	3
93	Direct Measurement of the $^7\text{Be}$ L/K Capture Ratio in Ta-Based Superconducting Tunnel Junctions. <i>Physical Review Letters</i> , <b>2020</b> , 125, 032701	7.4	4
92	Multiple Shape Coexistence in $^{110,112}\text{Cd}$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 142502	7.4	26

91	Isospin symmetry in B(E2) values: Coulomb excitation study of Mg21. <i>Physical Review C</i> , <b>2019</b> , 99,	2.7	6
90	Direct Observation of Proton Emission in $^{11}\text{Be}$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 082501	7.4	10
89	Simulation of charge readout with segmented tiles in nEXO. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P09020-P09020		
88	Detailed spectroscopy of Ca46: A study of the $\beta$ decay of K46. <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	2
87	The GRIFFIN facility for Decay-Spectroscopy studies at TRIUMF-ISAC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 918, 9-29	1.2	10
86	Mass measurements of neutron-rich indium isotopes toward the N=82 shell closure. <i>Physical Review C</i> , <b>2018</b> , 97,	2.7	10
85	Dawning of the N=32 Shell Closure Seen through Precision Mass Measurements of Neutron-Rich Titanium Isotopes. <i>Physical Review Letters</i> , <b>2018</b> , 120, 062503	7.4	56
84	Reorientation-effect measurement of the first 2+ state in $^{12}\text{C}$ : Confirmation of oblate deformation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 250-254	4.2	10
83	Investigation of excited 0+ states in $^{160}\text{Er}$ populated via the (p, t) two-neutron transfer reaction. <i>EPJ Web of Conferences</i> , <b>2018</b> , 178, 02025	0.3	0
82	Nuclear structure of Cd112 studied through the Cd111(d, p) reaction. <i>Physical Review C</i> , <b>2018</b> , 98,	2.7	2
81	Precision mass measurements of Cd125-127 isotopes and isomers approaching the N=82 closed shell. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	21
80	Halo-induced large enhancement of soft dipole excitation of $^{11}\text{Li}$ observed via proton inelastic scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 268-272	4.2	21
79	Precision mass measurements of magnesium isotopes and implications for the validity of the isobaric mass multiplet equation. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	8
78	Mass determination near N=20 for Al and Na isotopes. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	5
77	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> , <b>2017</b> , 868, 133-138	1.2	1
76	Doppler-shift attenuation lifetime measurement of the Ar3621+ level. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	1
75	High-precision QEC-value measurement of the superallowed $\beta^+$ emitter Mg22 and an ab initio evaluation of the A=22 isobaric triplet. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	5
74	New decay modes of the high-spin isomer of $^{124}\text{Cs}$ . <i>European Physical Journal A</i> , <b>2017</b> , 53, 1	2.5	

73	High-precision half-life measurement for the superallowed Fermi $\beta^+$ emitter Mg22. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	3
72	Electroweak Decay Studies of Highly Charged Radioactive Ions with TITAN at TRIUMF. <i>Atoms</i> , <b>2017</b> , 5, 14	2.1	7
71	Direct reactions for nuclear structure required for fundamental symmetry tests. <i>EPJ Web of Conferences</i> , <b>2016</b> , 123, 03003	0.3	1
70	Searching for $0^+$ states in Cr50: Implications for the superallowed $\beta$ decay of Mn50. <i>Physical Review C</i> , <b>2016</b> , 94,	2.7	4
69	Direct observation of the Ba114->Xe110->Te106->Sn102 triple $\beta$ decay chain using position and time correlations. <i>Physical Review C</i> , <b>2016</b> , 94,	2.7	12
68	Shape coexistence and evolution in Sr98. <i>Physical Review C</i> , <b>2016</b> , 93,	2.7	20
67	Mass measurements of neutron-rich Rb and Sr isotopes. <i>Physical Review C</i> , <b>2016</b> , 93,	2.7	15
66	Observation of a large $\beta$ -delayed neutron emission component in Rb102 decay and identification of excited states in Sr102. <i>Physical Review C</i> , <b>2016</b> , 93,	2.7	2
65	Shell evolution approaching the N= 20 island of inversion: Structure of $^{26}\text{Na}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 417-423	4.2	11
64	Improvements to TITAN's mass measurement and decay spectroscopy capabilities. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 376, 292-297	1.2	7
63	Conversion electrons from high-statistics $\beta$ -decay measurements with the $8\pi$ spectrometer at TRIUMF-ISAC. <i>EPJ Web of Conferences</i> , <b>2016</b> , 123, 02005	0.3	3
62	Conversion electron study of $^{110}\text{Cd}$ : Evidence of new E0 branches. <i>European Physical Journal A</i> , <b>2016</b> , 52, 1	2.5	9
61	Structure of $^{26}\text{Na}$ via a Novel Technique Using ( $d, p\gamma$ ) with a Radioactive $^{25}\text{Na}$ Beam. <i>Acta Physica Polonica B</i> , <b>2015</b> , 46, 527	1.9	2
60	Ground-state and pairing-vibrational bands with equal quadrupole collectivity in Xe124. <i>Physical Review C</i> , <b>2015</b> , 91,	2.7	14
59	The MR-TOF-MS isobar separator for the TITAN facility at TRIUMF. <i>Hyperfine Interactions</i> , <b>2015</b> , 235, 97-108	10.8	43
58	High-precision half-life measurements for the superallowed Fermi $\beta^+$ emitter Ne18. <i>Physical Review C</i> , <b>2015</b> , 92,	2.7	13
57	First direct mass measurement of the neutron-deficient nucleus Al24. <i>Physical Review C</i> , <b>2015</b> , 92,	2.7	7
56	Far From Easy: Spectroscopy with the $8\pi$ and GRIFFIN Spectrometers at TRIUMF-ISAC. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 639, 012006	0.3	12

55	Low-Background In-Trap Decay Spectroscopy with TITAN at TRIUMF <b>2015</b> ,		2
54	DESCANT and $\beta$ -delayed neutron measurements at TRIUMF. <i>EPJ Web of Conferences</i> , <b>2015</b> , 93, 07005	0.3	5
53	Sensitivity Increases for the TITAN Decay Spectroscopy Program. <i>EPJ Web of Conferences</i> , <b>2015</b> , 93, 07006	0.3	1
52	The TITAN in-trap decay spectroscopy facility at TRIUMF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 780, 91-99	1.2	17
51	Nuclear Structure of $^{124}\text{Xe}$ Studied with $\beta^+/\text{EC}$ -Decay <b>2015</b> ,		1
50	TITAN: an ion trap for accurate mass measurements of ms-half-life nuclides. <i>Applied Physics B: Lasers and Optics</i> , <b>2014</b> , 114, 99-105	1.9	10
49	Upgrade of the SPIRAL identification station for high-precision measurements of nuclear $\beta$ decay. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 741, 18-25	1.2	8
48	Precision QEC-value measurement of $\text{Mg}^{23}$ for testing the Cabibbo-Kobayashi-Maskawa matrix unitarity. <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	6
47	Breakdown of the isobaric multiplet mass equation for the $A = 20$ and $21$ multiplets. <i>Physical Review Letters</i> , <b>2014</b> , 113, 082501	7.4	31
46	In-trap spectroscopy of charge-bred radioactive ions. <i>Physical Review Letters</i> , <b>2014</b> , 113, 082502	7.4	24
45	High-Precision Half-life Measurements for the Superallowed $\beta^+$ -Emitter $^{14}\text{O}$ . <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 05012	0.3	
44	High-precision half-life and branching-ratio measurements for superallowed Fermi $\beta^+$ -emitters at TRIUMF ISAC. <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 05013	0.3	
43	Precision mass measurements of short-lived nuclides for nuclear structure studies at TITAN. <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 02030	0.3	1
42	High-Statistics Study of the $\beta^+/\text{EC}$ -Decay of $^{110}\text{In}$ . <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 02029	0.3	3
41	The DEuterated SCintillator Array for Neutron Tagging. <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 11040	0.3	
40	Investigation of the E2 and E3 matrix elements in $^{200}\text{Hg}$ using inelastic scattering. <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 02088	0.3	
39	Investigations of Spectroscopic Factors and Sum Rules from the Single Neutron Transfer Reaction $^{111}\text{Cd}(\beta^+)^{112}\text{Cd}$ . <i>EPJ Web of Conferences</i> , <b>2014</b> , 66, 02056	0.3	
38	Lifetime measurements of states in $^{15}\text{O}$ . <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	7

37	Quadrupole-octupole coupled states in Cd112 populated in the Cd111(d ,p) reaction. <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	7
36	The TIGRESS Integrated Plunger ancillary systems for electromagnetic transition rate studies at TRIUMF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 746, 87-97	1.2	14
35	Comparison of deuterated and normal liquid scintillators for fast-neutron detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 729, 188-197	1.2	16
34	Excited 0+ states in 62Zn populated via the 64Zn(p,t)62Zn reaction. <i>Physical Review C</i> , <b>2013</b> , 88,	2.7	8
33	Experimental 64Zn(d ,t)63Zn spectroscopic factors: Guidance for isospin-symmetry-breaking calculations. <i>Physical Review C</i> , <b>2013</b> , 87,	2.7	6
32	Collective structure in 94Zr and subshell effects in shape coexistence. <i>Physical Review Letters</i> , <b>2013</b> , 110, 022504	7.4	40
31	High-precision branching-ratio measurement for the superallowed $\pi^+$ emitter 74Rb. <i>Physical Review C</i> , <b>2013</b> , 88,	2.7	12
30	High-precision half-life measurements for the superallowed Fermi $\pi^+$ emitter 14O. <i>Physical Review C</i> , <b>2013</b> , 88,	2.7	17
29	Detailed spectroscopy of 110Cd: Evidence for weak mixing and the emergence of $\pi$ soft behavior. <i>Physical Review C</i> , <b>2012</b> , 86,	2.7	39
28	Reorientation-effect measurement of the $\langle 21^+    E2    21^+ \rangle$ matrix element in 10Be. <i>Physical Review C</i> , <b>2012</b> , 86,	2.7	20
27	High-precision branching-ratio measurement for the superallowed $\pi^+$ emitter 26Alm. <i>Physical Review C</i> , <b>2012</b> , 85,	2.7	10
26	Towards 26Na via (d,p) with SHARC and TIGRESS and a novel zero-degree detector. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 381, 012097	0.3	6
25	Geant4 Developments for the Radon Electric Dipole Moment Search at TRIUMF. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 312, 102013	0.3	8
24	Experimental Guidance of ISB Corrections via Direct Nuclear Reactions. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 312, 092036	0.3	
23	High-precision half-life measurement for the superallowed $\pi^+$ emitter $\pi^+$ Al(m). <i>Physical Review Letters</i> , <b>2011</b> , 106, 032501	7.4	36
22	. <i>Acta Physica Polonica B</i> , <b>2011</b> , 42, 799	1.9	9
21	Structure of the $K\pi 4^+$ bands in Os186,188. <i>Physical Review C</i> , <b>2010</b> , 82,	2.7	15
20	Structure of states in 12Be via the 11Be(. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 682, 391-395	4.2	55

19	Degeneracy at 1871 keV in Cd112 and implications for neutrinoless double electron capture. <i>Physical Review C</i> , <b>2009</b> , 80,	2.7	32
18	Scattering of 30 MeV He3 from Re185. <i>Physical Review C</i> , <b>2009</b> , 79,	2.7	4
17	Coulomb excitation of the proton-dripline nucleus Na20. <i>Physical Review C</i> , <b>2009</b> , 80,	2.7	13
16	Narrowing of the neutron sd $\bar{p}$ f shell gap in 29Na. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2009</b> , 674, 168-171	4.2	26
15	Coulomb excitation of radioactive 20, 21Na. <i>European Physical Journal A</i> , <b>2009</b> , 42, 477	2.5	3
14	Structure of the K $\bar{p}$ 4+ bands in 186,188Os <b>2009</b> ,		2
13	High-precision half-life determination for the superallowed $\bar{p}$ - emitter Ga62. <i>Physical Review C</i> , <b>2008</b> , 77,	2.7	20
12	High-precision branching ratio measurement for the superallowed $\bar{p}$ + emitter Ga62. <i>Physical Review C</i> , <b>2008</b> , 78,	2.7	23
11	Coulomb excitation of radioactive Na21 and its stable mirror Ne21. <i>Physical Review C</i> , <b>2008</b> , 78,	2.7	19
10	Internal gamma decay and the superallowed branching ratio for the beta(+) emitter (38)K(m). <i>Physical Review Letters</i> , <b>2008</b> , 100, 192504	7.4	17
9	Pile-up corrections for high-precision superallowed $\bar{p}$ decay half-life measurements via $\bar{p}$ ay photopeak counting. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 579, 1005-1033	1.2	25
8	The TRIUMF nuclear structure program and TIGRESS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 261, 1084-1088	1.2	19
7	TRIUMF-ISAC Gamma-Ray Escape-Suppressed Spectrometer (TIGRESS): a versatile tool for radioactive beam physics. <i>Nuclear Physics A</i> , <b>2007</b> , 787, 118-125	1.3	4
6	Prediction of human spleen size by computer analysis of splenic scintigrams. <i>British Journal of Radiology</i> , <b>1976</b> , 49, 151-5	3.4	9
5	In vivo assessment of liver size in the rat. <i>Journal of Nuclear Medicine</i> , <b>1975</b> , 16, 380-5	8.9	8
4	The effect of angiotensin I and II on hind-limb blood flow in sheep. <i>Journal of Pharmacy and Pharmacology</i> , <b>1971</b> , 23, 466-8	4.8	7
3	Portal venous injection in the rat. <i>Gut</i> , <b>1971</b> , 12, 585-91	19.2	5
2	Notes on the preparation of technetium-99m labelled albumin. <i>The International Journal of Applied Radiation and Isotopes</i> , <b>1971</b> , 22, 53-4		2

1 Observations on liver regeneration after right hepatic lobectomy. *Gut*, **1971**, 12, 922-8

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