

Kyle G Leach

List of Publications by Year in descending order

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132
papers

1,574
citations

304743

22
h-index

414414

32
g-index

135
all docs

135
docs citations

135
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	High-precision half-life determination of ^{14}O via direct β counting. European Physical Journal A, 2022, 58, 1.	2.5	0
2	The BeEST Experiment: Searching for Beyond Standard Model Neutrinos Using ^7Be Decay in STJs. Journal of Low Temperature Physics, 2022, 209, 796-803.	1.4	1
3	Mass measurements of neutron-rich indium isotopes for r -process studies. Physical Review C, 2021, 103, .	2.9	12
4	Testing isospin symmetry breaking in <i>ab initio</i> nuclear theory. Physical Review C, 2021, 104, .	2.9	9
5	Reflectivity of VUV-sensitive silicon photomultipliers in liquid Xenon. Journal of Instrumentation, 2021, 16, P08002.	1.2	5
6	Spectroscopy of states in Ba136 using the Ba138(p,t) reaction. Physical Review C, 2021, 104, .	2.9	4
7	Corrigendum to "Benchmarking ^{136}Xe neutrinoless $\hat{I}^2\hat{I}^2$ decay matrix element calculations with the $^{138}\text{Ba}(p,t)$ reaction" [Phys. Lett. B 809 (2020) 135702]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136532.	4.1	2
8	Limits on the Existence of sub-MeV Sterile Neutrinos from the Decay of ^{136}Xe in Superconducting Quantum Sensors. Physics Letters, 2021, 126, 021845.	7.8	28
9	Superconducting Quantum Sensors. Physics Letters, 2021, 126, 021845.	2.9	3
10	Kiloton-scale xenon detectors for neutrinoless double beta decay and other new physics searches. Physical Review D, 2021, 104, .	4.7	11
11	Absence of Low-Energy Shape Coexistence in Ge80 : The Nonobservation of a Proposed Excited 0_2^+ Level at 639 keV. Physical Review Letters, 2020, 125, 172501.	7.8	12
12	Direct Measurement of the ^{136}Xe Neutrinoless $\hat{I}^2\hat{I}^2$ Decay Matrix Element. Physical Review Letters, 2021, 126, 021845.	7.8	14
13	Benchmarking ^{136}Xe neutrinoless $\hat{I}^2\hat{I}^2$ decay matrix element calculations with the $^{138}\text{Ba}(p,t)$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135702.	4.1	13
14	High-precision branching ratio measurement and spin assignment implications for Ga62 superallowed \hat{I}^2 decay. Physical Review C, 2020, 102, .	2.9	4
15	Measurement of the ^{136}Xe Neutrinoless $\hat{I}^2\hat{I}^2$ Decay Matrix Element from the $^{138}\text{Ba}(p,t)$ Reaction. Physical Review Letters, 2021, 126, 021845.	2.9	4
16	Observation of the 0_2^+ and \hat{I}^3 bands in ^{98}Ru , and shape coexistence in the Ru isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135762.	4.1	6
17	Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. Journal of Instrumentation, 2020, 15, P01019-P01019.	1.2	9
18	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.	3.6	2

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19	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, .	2.9	15
20	Delayed or absent π alignment in Xe111. Physical Review C, 2020, 101, .	2.9	1
21	Shape coexistence and multiparticle-multihole structures in $^{110,112}\text{Cd}$. Physical Review C, 2020, 101, .	2.9	28
22	Multiple Shape Coexistence in $^{110,112}\text{Cd}$ and Beyond Mean Field Calculations. Journal of Physics: Conference Series, 2020, 1643, 012131.	0.4	1
23	High-resolution ^{110}Cd β decay. Physical Review C, 2020, 101, .	2.9	1
24	Direct Observation of Proton Emission in ^{11}Be . Physical Review Letters, 2019, 123, 082501.	7.8	29
25	Simulation of charge readout with segmented tiles in nEXO. Journal of Instrumentation, 2019, 14, P09020-P09020.	1.2	8
26	Multiple Shape Coexistence in $^{110,112}\text{Cd}$. Physical Review Letters, 2019, 123, 142502.	7.8	56
27	Isospin Symmetry in ^{21}Mg . Physical Review C, 2019, 99, .	2.9	19
28	Detailed spectroscopy of Ca46 : A study of the β^+ decay of K46. Physical Review C, 2019, 100, .	2.9	4
29	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.	1.6	24
30	Mass measurements of neutron-rich indium isotopes toward the $N=82$ shell closure. Physical Review C, 2018, 97, .	2.9	15
31	Dawning of the $N=32$ Shell Closure Seen through Precision Mass Measurements of Neutron-Rich Titanium Isotopes. Physical Review Letters, 2018, 120, 062503.	7.8	81
32	Reorientation-effect measurement of the first 2^+ state in ^{12}C : Confirmation of oblate deformation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 250-254.	4.1	16
33	Investigation of excited 0^+ states in ^{160}Er populated via the (p, t) two-neutron transfer reaction. EPJ Web of Conferences, 2018, 178, 02025.	0.3	1
34	Nuclear structure of ^{112}Cd studied through the β decay. Physical Review C, 2018, 98, .	2.9	19

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37	Halo-induced large enhancement of soft dipole excitation of ^{11}Li observed via proton inelastic scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 774, 268-272.	4.1	31
38	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
39	Mass determination near ^{20}Ne for Al and Na isotopes. <i>Physical Review C</i> , 2017, 96, .		
40	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
41	Doppler-shift attenuation lifetime measurement of the ^{36}Ar level. <i>Physical Review C</i> , 2017, 96, .	2.9	2
42	High-precision Q -value measurement of the superallowed ^{88}Sr emitter	2.9	8
43	New decay modes of the high-spin isomer of ^{124}Cs . <i>European Physical Journal A</i> , 2017, 53, 1.	2.5	0
44	High-precision half-life measurement for the superallowed Fermi ^{22}Mg emitter	2.9	3
45	Electroweak Decay Studies of Highly Charged Radioactive Ions with TITAN at TRIUMF. <i>Atoms</i> , 2017, 5, 14.	1.6	9
46	Direct reactions for nuclear structure required for fundamental symmetry tests. <i>EPJ Web of Conferences</i> , 2016, 123, 03003.	0.3	1
47	Conversion electrons from high-statistics ^{87}Sr decay measurements with the ^{87}Sr spectrometer at TRIUMF-ISAC. <i>EPJ Web of Conferences</i> , 2016, 123, 02005.	0.3	3
48	Conversion electron study of ^{110}Cd : Evidence of new $E0$ branches. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	10
49	Searching for 0^+ states in ^{50}Cr : Implications for the superallowed ^{50}Mn decay. <i>Physical Review C</i> , 2016, 94, .	2.9	6
50	Direct observation of the ^{114}Ba	2.9	22
51	Shape coexistence and evolution in ^{98}Sr	2.9	26
52	Mass measurements of neutron-rich Rb and Sr isotopes. <i>Physical Review C</i> , 2016, 93, .	2.9	16
53	Observation of a large ^{102}Rb emission component in ^{102}Rb decay and identification of excited states in ^{102}Rb	2.9	2
54	Shell evolution approaching the $N = 20$ island of inversion: Structure of ^{26}Na . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 759, 417-423.	4.1	16

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55	Improvements to TITAN's mass measurement and decay spectroscopy capabilities. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 292-297.	1.4	8
56	High-precision half-life measurements for the superallowed Fermi β^+ -emitter ^{18}Ne . Physical Review C, 2015, 92, .	2.9	13
57	First direct mass measurement of the neutron-deficient nucleus ^{24}Al . Physical Review C, 2015, 92, .	2.9	9
58	Far From "Easy" Spectroscopy with the 8 π and GRIFFIN Spectrometers at TRIUMF-ISAC. Journal of Physics: Conference Series, 2015, 639, 012006.	0.4	14
59	Low-Background In-Trap Decay Spectroscopy with TITAN at TRIUMF. , 2015, , .		2
60	DESCANT and β^+ -delayed neutron measurements at TRIUMF. EPJ Web of Conferences, 2015, 93, 07005.	0.3	6
61	Sensitivity Increases for the TITAN Decay Spectroscopy Program. EPJ Web of Conferences, 2015, 93, 07006.	0.3	1
62	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.	1.6	21
63	Structure of ^{26}Na via a Novel Technique Using ($d, p\gamma$) with a Radioactive ^{25}Na Beam. Acta Physica Polonica B, 2015, 46, 527.	0.8	5
64	Ground-state and pairing-vibrational bands with equal quadrupole collectivity in ^{124}Xe . Physical Review C, 2015, 91, .	2.9	15
65	The MR-TOF-MS isobar separator for the TITAN facility at TRIUMF. Hyperfine Interactions, 2015, 235, 97-106.	0.5	52
66	Nuclear Structure of ^{124}Xe Studied with β^+/EC -Decay. , 2015, , .		1
67	Investigation of ^{112}Cd via the (d, p) Reaction and a Reassessment of the Quadrupole-Octupole Coupled Excitation. , 2015, , .		0
68	Detailed Conversion Electron Study of ^{110}Cd . , 2015, , .		0
69	The DEuterated SCintillator Array for Neutron Tagging. EPJ Web of Conferences, 2014, 66, 11040.	0.3	0
70	Investigation of the E2 and E3 matrix elements in ^{200}Hg using inelastic scattering. EPJ Web of Conferences, 2014, 66, 02088.	0.3	0
71	Investigations of Spectroscopic Factors and Sum Rules from the Single Neutron Transfer Reaction $^{111}\text{Cd} \rightarrow ^{112}\text{Cd} + n$. EPJ Web of Conferences, 2014, 66, 02056.	0.3	0
72	Lifetime measurements of states in ^{15}O . Physical Review C, 2014, 90, .	2.9	10

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73	<p>pole-octupole coupled states in ^{112}Cd populated in 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.</p>	2.9	10
74	<p>TITAN: an ion trap for accurate mass measurements of ms-half-life nuclides. Applied Physics B: Lasers and Optics, 2014, 114, 99-105.</p>	2.2	10
76	<p>Upgrade of the SPIRAL identification station for high-precision measurements of nuclear \hat{I}^2 decay. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 741, 18-25.</p>	1.6	8
77	<p>Precision QEC-value measurement of Mg^{23} for testing the Cabibbo-Kobayashi-Maskawa matrix unitarity. Physical Review C, 2014, 90, .</p>	2.9	7
78	<p>Breakdown of the Isobaric Multiplet Mass Equation for the $A=20$ and $A=21$ Multiplets. Physical Review Letters, 2014, 113, 082501.</p>	7.8	34
79	<p>In-Trap Spectroscopy of Charge-Bred Radioactive Ions. Physical Review Letters, 2014, 113, 082502.</p>	7.8	26
80	<p>High-Precision Half-life Measurements for the Superallowed \hat{I}^2+ Emitter ^{14}O. EPJ Web of Conferences, 2014, 66, 05012.</p>	0.3	0
81	<p>High-precision half-life and branching-ratio measurements for superallowed Fermi \hat{I}^2+ emitters at TRIUMF \hat{a}^{e} ISAC. EPJ Web of Conferences, 2014, 66, 05013.</p>	0.3	0
82	<p>Precision mass measurements of short-lived nuclides for nuclear structure studies at TITAN. EPJ Web of Conferences, 2014, 66, 02030.</p>	0.3	1
83	<p>High-Statistics Study of the \hat{I}^2+/EC-Decay of ^{110}In. EPJ Web of Conferences, 2014, 66, 02029.</p>	0.3	3
84	<p>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.</p>	1.6	21
85	<p>states in ^{62}Zn populated via the ^{62}Zn \hat{I}^2+ decay.</p>		

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91	High-precision half-life measurements for the superallowed Fermi β^+ emitter ^{110}Cd . Physical Review C, 2013, 88, .	2.9	20
92	A HIGH-PRECISION BRANCHING-RATIO MEASUREMENT FOR THE SUPERALLOWED β^+ EMITTER ^{74}Rb . , 2013, , .		0
93	TESTS OF A FAST PLASTIC SCINTILLATOR FOR HIGH-PRECISION HALF-LIFE MEASUREMENTS. , 2013, , .		0
94	MEASUREMENT OF THE SPECTROSCOPIC QUADRUPOLE MOMENT FOR THE 2^+_{11} STATE IN ^{10}Be : TESTING AB INITIO CALCULATIONS. , 2013, , .		0
95	THE CONVERSION ELECTRON STUDY FOR ^{110}Cd . , 2013, , .		0
96	EXPERIMENTAL GUIDANCE FOR ISOSPIN SYMMETRY BREAKING CALCULATIONS VIA SINGLE NEUTRON PICKUP REACTIONS. , 2013, , .		0
97	STRUCTURE OF ^{152}Sm VIA DEUTERON INELASTIC SCATTERING TO PROBE THE TETRAHEDRAL SYMMETRY. , 2013, , .		0
98	SPECTROSCOPIC FACTORS FROM THE SINGLE NEUTRON TRANSFER REACTION $^{111}\text{Cd}(d,p)^{112}\text{Cd}$. , 2013, , .		0
99	Detailed spectroscopy of ^{110}Cd : Evidence for weak mixing and the emergence of β^+ -soft behavior. Physical Review C, 2012, 86, .	2.9	50
100	Reorientation-effect measurement of the ^{21}Be matrix element in ^{10}Be . Physical Review C, 2012, 86, .		26
101	High-precision branching-ratio measurement for the superallowed β^+ emitter ^{26}Al . Physical Review C, 2012, 86, .	2.9	11
102	Towards ^{26}Na via (d,p) with SHARC and TIGRESS and a novel zero-degree detector. Journal of Physics: Conference Series, 2012, 381, 012097.	0.4	8
103	High-precision half-life measurement for the superallowed β^+ emitter ^{26}Al . Physical Review C, 2012, 86, .	7.8	37
104	Geant4 Developments for the Radon Electric Dipole Moment Search at TRIUMF. Journal of Physics: Conference Series, 2011, 312, 102013.	0.4	8
105	Experimental Guidance of ISB Corrections via Direct Nuclear Reactions. Journal of Physics: Conference Series, 2011, 312, 092036.	0.4	0
106	The effect of angiotensin I and II on hind-limb blood flow in sheep. Journal of Pharmacy and Pharmacology, 2011, 23, 466-468.	2.4	9
107	The Current Status of Precision Superallowed Fermi β^+ -Decay Measurements at TRIUMF-ISAC. , 2011, , .		0
108	Mapping quadrupole collectivity in the Cd isotopes: The breakdown of harmonic vibrational motion. , 2011, , .		1

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109	Title is missing!. Acta Physica Polonica B, 2011, 42, 799.	0.8	11
110	Structure of states in ^{12}Be via the ^{11}Be reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 682, 391-395.	4.1	61
111	Structure of the $K^{\pi}=4^{+}$ bands in $^{186,188}\text{Os}$. Physical Review C, 2010, 82, .	2.9	20
112	Structure of the $K^{\pi}=4^{+}$ bands in $^{186,188}\text{Os}$. , 2009, , .		2
113	First Results with TIGRESS and Accelerated Radioactive Ion Beams from ISAC: Coulomb Excitation of $^{20,21,29}\text{Na}$. , 2009, , .		0
114	Degeneracy at 1871 keV in ^{112}Cd and implications for neutrinoless double electron capture. Physical Review C, 2009, 80, .	2.9	32
115	Scattering of 30 MeV ^3He from ^{185}Re . Physical Review C, 2009, 79, .	2.9	4
116	Coulomb excitation of the proton-dripline nucleus ^{20}Na . Physical Review C, 2009, 80, .	2.9	13
117	Narrowing of the neutron shell gap in ^{29}Na . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 168-171.		
118	Coulomb excitation of radioactive $^{20,21}\text{Na}$. European Physical Journal A, 2009, 42, 477.	2.5	3
119	Gamma-Ray Spectroscopy at TRIUMF-ISAC: the New Frontier of Radioactive Ion Beam Research. , 2009, , .		0
120	Nature of the $K^{\pi}=4^{+}$ bands in the Os isotopes. AIP Conference Proceedings, 2008, , .	0.4	0
121	High-precision half-life determination for the superallowed ^2Ga emitter. Physical Review C, 2008, 78, .	2.9	22
122	High-precision branching ratio measurement for the superallowed ^2Ga emitter. Physical Review C, 2008, 78, .	2.9	27
123	Coulomb excitation of radioactive ^{21}Na and its stable mirror ^{21}Ne . Physical Review C, 2008, 78, .	2.9	19
124	Internal $^3\text{Decay}$ and the Superallowed Branching Ratio for the $^2\text{Emitter}$ ^{38}K . Physical Review Letters, 2008, 100, 192504.	7.8	17
125	Pile-up corrections for high-precision superallowed decay half-life measurements via γ -ray photopeak counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 1005-1033.	1.6	27
126	The TRIUMF nuclear structure program and TIGRESS. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 1084-1088.	1.4	20

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127	TRIUMF-ISAC Gamma-Ray Escape-Suppressed Spectrometer (TIGRESS): a versatile tool for radioactive beam physics. Nuclear Physics A, 2007, 787, 118-125.	1.5	4
128	Prediction of human spleen size by computer analysis of splenic scintigrams. British Journal of Radiology, 1976, 49, 151-155.	2.2	10
129	In vivo assessment of liver size in the rat. Journal of Nuclear Medicine, 1975, 16, 380-5.	5.0	8
130	Portal venous injection in the rat. Gut, 1971, 12, 585-591.	12.1	6
131	Notes on the preparation of technetium-99m labelled albumin. The International Journal of Applied Radiation and Isotopes, 1971, 22, 53-54.	0.7	2
132	Observations on liver regeneration after right hepatic lobectomy. Gut, 1971, 12, 922-928.	12.1	50