

Kyle G Leach

List of Publications by Year in descending order

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Version: 2024-02-01

132
papers

1,574
citations

304743

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32
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135
all docs

135
docs citations

135
times ranked

1205
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | Structure of states in ^{12}Be via the ^{11}Be reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 682, 268-272 | 4.1 | 61 |
| 3 | Shape Coexistence in ^{110}Cd and ^{112}Cd . Physical Review Letters, 2019, 123, 142502 | 7.8 | 56 |
| 4 | The MR-TOF-MS isobar separator for the TITAN facility at TRIUMF. Hyperfine Interactions, 2015, 235, 97-106. | 0.5 | 52 |
| 5 | Observations on liver regeneration after right hepatic lobectomy. Gut, 1971, 12, 922-928. | 12.1 | 50 |
| 6 | Detailed spectroscopy of ^{110}Cd : Evidence for weak mixing and the emergence of Collective Structure in ^{110}Cd . Physical Review C, 2012, 86, 014305 | 2.9 | 50 |
| 7 | High-Precision Half-Life Measurement for the Superallowed ^{110}Cd . Physical Review Letters, 2013, 111, 072501 | 7.8 | 49 |
| 8 | Breakdown of the Isobaric Multiplet Mass Equation for the ^{110}Cd and ^{112}Cd Multiplets. Physical Review Letters, 2014, 113, 082501 | 7.8 | 37 |
| 9 | Degeneracy at 1871 keV in ^{112}Cd and implications for neutrinoless double electron capture. Physical Review C, 2009, 80, 064301 | 2.9 | 32 |
| 10 | Halo-induced large enhancement of soft dipole excitation of ^{11}Li observed via proton inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 268-272 | 4.1 | 31 |
| 11 | Direct Observation of Proton Emission in ^{11}Be . Physical Review Letters, 2019, 123, 082501 | 7.8 | 29 |
| 12 | Shape coexistence and multiparticle-quintupole structures in ^{110}Cd . Physical Review Letters, 2019, 123, 082501 | 2.9 | 28 |
| 13 | Limits on the Existence of sub-MeV Sterile Neutrinos from the Decay of ^{110}Cd . Physical Review Letters, 2019, 123, 082501 | 7.8 | 28 |
| 14 | Superconducting Quantum Sensors. Physical Review Letters, 2021, 126, 021803 | 1.6 | 27 |
| 15 | 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 |
| 16 | High-precision branching ratio measurement for the superallowed ^{62}Ga . Physical Review C, 2008, 78, . | 2.9 | 27 |
| 17 | Narrowing of the neutron shell gap in ^{29}Na . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 168-171. | 2.9 | 26 |
| 18 | Reorientation-effect measurement of the ^{21}Be matrix element in ^{10}Be . Physical Review C, 2012, 86, . | 2.9 | 26 |

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|----|--|-----|-----------|
| 19 | In-Trap Spectroscopy of Charge-Bred Radioactive Ions. Physical Review Letters, 2014, 113, 082502. | 7.8 | 26 |
| 20 | Shape coexistence and evolution in ^{82}Sr . Physical Review C, 2016, 93, . | 2.9 | 26 |
| 21 | Isotopes and isomers approaching the $Z=82$ shell closure. Physical Review C, 2016, 93, . | 2.9 | 26 |
| 22 | 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 |
| 23 | Direct observation of the ^{12}N nucleus. Physical Review Letters, 2013, 111, 082502. | 2.9 | 22 |
| 24 | Direct observation of the ^{114}Ba nucleus. Physical Review Letters, 2013, 111, 082502. | 2.9 | 22 |
| 25 | 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. | 1.6 | 21 |
| 26 | 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 |
| 27 | The TRIUMF nuclear structure program and TIGRESS. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 1084-1088. | 1.4 | 20 |
| 28 | Structure of the $K^{\pi}=4^{+}$ bands in $^{186,188}\text{Os}$. Physical Review C, 2010, 82, . | 2.9 | 20 |
| 29 | High-precision half-life measurements for the superallowed Fermi ^{14}O emitter. Physical Review C, 2013, 88, . | 2.9 | 20 |
| 30 | Coulomb excitation of radioactive ^{21}Na and its stable mirror ^{21}Ne . Physical Review C, 2008, 78, . | 2.9 | 19 |
| 31 | Isospin symmetry in ^{21}B values: Coulomb excitation study of ^{21}Mg . Physical Review C, 2010, 82, . | 2.9 | 19 |
| 32 | Internal ^{13}C Decay and the Superallowed Branching Ratio for the ^{38}K Emitter. Physical Review Letters, 2008, 100, 192504. | 7.8 | 17 |
| 33 | 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. | 1.6 | 16 |
| 34 | Mass measurements of neutron-rich Rb and Sr isotopes. Physical Review C, 2016, 93, . | 2.9 | 16 |
| 35 | Shell evolution approaching the $N=20$ island of inversion: Structure of ^{26}Na . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 417-423. | 4.1 | 16 |
| 36 | Mass measurements of neutron-rich indium isotopes toward the $N=82$ shell closure. Physical Review C, 2018, 97, . | 2.9 | 16 |

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|----|---|-----|-----------|
| 37 | Reorientation-effect measurement of the first 2^+ state in ^{12}C : Confirmation of oblate deformation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 777, 250-254. | 4.1 | 16 |
| 38 | High-precision branching-ratio measurement for the superallowed β^+ emitter ^{19}Mg . <i>Physical Review C</i> , 2013, 88, . | 2.9 | 15 |
| 39 | Ground-state and pairing-vibrational bands with equal quadrupole collectivity in ^{124}Xe . <i>Physical Review C</i> , 2015, 91, . | 2.9 | 15 |
| 40 | 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> , 2020, 101, . | 2.9 | 15 |
| 41 | Far From "Easy" Spectroscopy with the 8π and GRIFFIN Spectrometers at TRIUMF-ISAC. <i>Journal of Physics: Conference Series</i> , 2015, 639, 012006. | 0.4 | 14 |
| 42 | Direct Measurement of the ^{7}Be β^+ Decay. <i>Physical Review C</i> , 2009, 80, . | 7.8 | 14 |
| 43 | Coulomb excitation of the proton-dripline nucleus ^{20}Na . <i>Physical Review C</i> , 2009, 80, . | 2.9 | 13 |
| 44 | High-precision half-life measurements for the superallowed Fermi β^+ emitter ^{18}Ne . <i>Physical Review C</i> , 2015, 92, . | 2.9 | 13 |
| 45 | Benchmarking ^{136}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> , 2020, 809, 135702. | 4.1 | 13 |
| 46 | 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 |
| 47 | Absence of Low-Energy Shape Coexistence in ^{80}Ge : The Nonobservation of a Proposed Excited 0^+ Level at 639 keV. <i>Physical Review Letters</i> , 2020, 125, 172501. | 7.8 | 12 |
| 48 | Mass measurements of neutron-rich indium isotopes for r -process studies. <i>Physical Review C</i> , 2021, 103, . | 2.9 | 12 |
| 49 | Title is missing!. <i>Acta Physica Polonica B</i> , 2011, 42, 799. | 0.8 | 11 |
| 50 | High-precision branching-ratio measurement for the superallowed β^+ emitter ^{26}Al . <i>Physical Review C</i> , 2013, 88, . | 2.9 | 11 |
| 51 | Kiloton-scale xenon detectors for neutrinoless double beta decay and other new physics searches. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 11 |
| 52 | Prediction of human spleen size by computer analysis of splenic scintigrams. <i>British Journal of Radiology</i> , 1976, 49, 151-155. | 2.2 | 10 |
| 53 | Population of the 0^+ state in ^{62}Zn populated via the ^{62}Zn β^+ decay. <i>Physical Review C</i> , 2013, 88, . | 2.9 | 10 |

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|----|---|-----|-----------|
| 55 | High-precision ^{112}Cd Q_{EC} value measurement of the superallowed ^{112}Cd β^+ emitter | 2.9 | 10 |
| 56 | 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 |
| 57 | Conversion electron study of ^{110}Cd : Evidence of new E0 branches. European Physical Journal A, 2016, 52, 1. | 2.5 | 10 |
| 58 | 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 |
| 59 | First direct mass measurement of the neutron-deficient nucleus ^{24}Al . Physical Review C, 2015, 92, . | 2.9 | 9 |
| 60 | Electroweak Decay Studies of Highly Charged Radioactive Ions with TITAN at TRIUMF. Atoms, 2017, 5, 14. | 1.6 | 9 |
| 61 | Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. Journal of Instrumentation, 2020, 15, P01019-P01019. | 1.2 | 9 |
| 62 | Testing isospin symmetry breaking in <i>ab initio</i> nuclear theory. Physical Review C, 2021, 104, . | 2.9 | 9 |
| 63 | Geant4 Developments for the Radon Electric Dipole Moment Search at TRIUMF. Journal of Physics: Conference Series, 2011, 312, 102013. | 0.4 | 8 |
| 64 | 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 |
| 65 | Experimental $^{64}\text{Zn}(\beta^-,t)^{63}\text{Zn}$ spectroscopic factors: Guidance for isospin-symmetry-breaking calculations. Physical Review C, 2013, 87, . | 2.9 | 8 |
| 66 | Upgrade of the SPIRAL identification station for high-precision measurements of nuclear β^2 decay. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 741, 18-25. | 1.6 | 8 |
| 67 | Improvements to TITAN's mass measurement and decay spectroscopy capabilities. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 292-297. | 1.4 | 8 |
| 68 | High-precision ^{112}Cd Q_{EC} value measurement of the superallowed ^{112}Cd β^+ emitter | 2.9 | 8 |
| 69 | Simulation of charge readout with segmented tiles in nEXO. Journal of Instrumentation, 2019, 14, P09020-P09020. | 1.2 | 8 |
| 70 | In vivo assessment of liver size in the rat. Journal of Nuclear Medicine, 1975, 16, 380-5. | 5.0 | 8 |
| 71 | Precision Q_{EC} value measurement of ^{23}Mg for testing the Cabibbo-Kobayashi-Maskawa matrix unitarity. Physical Review C, 2014, 90, . | 2.9 | 7 |
| 72 | Mass determination near ^{20}N for Al and Na isotopes. Physical Review C, 2017, 96, . | 2.9 | 7 |

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|----|---|------|-----------|
| 73 | Portal venous injection in the rat. Gut, 1971, 12, 585-591. | 12.1 | 6 |
| 74 | DESCANT and \hat{I}^2 -delayed neutron measurements at TRIUMF. EPJ Web of Conferences, 2015, 93, 07005. | 0.3 | 6 |
| 75 | Searching for 0^+ states in ^{50}Cr : Implications for the superallowed \hat{I}^2 decay of ^{50}Mn . Physical Review C, 2016, 94, . | 2.9 | 6 |
| 76 | Observation of the 0^+ 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 |
| 77 | 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 |
| 78 | Reflectivity of VUV-sensitive silicon photomultipliers in liquid Xenon. Journal of Instrumentation, 2021, 16, P08002. | 1.2 | 5 |
| 79 | 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 |
| 80 | Scattering of 30 MeV He^3 from ^{185}Re . Physical Review C, 2009, 79, . | 2.9 | 4 |
| 81 | Detailed spectroscopy of ^{46}Ca : A study of the $\hat{I}^2\hat{a}^{\sim}$ decay of ^{46}K . Physical Review C, 2019, 100, . | 2.9 | 4 |
| 82 | High-precision branching ratio measurement and spin assignment implications for ^{62}Ga superallowed \hat{I}^2 decay. Physical Review C, 2020, 102, . | 2.9 | 4 |
| 83 | Spectroscopy of states in ^{136}Ba using the $^{138}\text{Ba}(p,t)$ reaction. Physical Review C, 2021, 104, . | 2.9 | 4 |
| 84 | Coulomb excitation of radioactive $^{20, 21}\text{Na}$. European Physical Journal A, 2009, 42, 477. | 2.5 | 3 |
| 85 | High-Statistics Study of the \hat{I}^2 +/ EC -Decay of ^{110}In . EPJ Web of Conferences, 2014, 66, 02029. | 0.3 | 3 |
| 86 | Conversion electrons from high-statistics \hat{I}^2 -decay measurements with the \hat{I}^2 spectrometer at TRIUMF-ISAC. EPJ Web of Conferences, 2016, 123, 02005. | 0.3 | 3 |
| 87 | High-precision half-life measurement for the superallowed Fermi \hat{I}^2 emitter ^{26}Mg and the cubic isobaric multiplet mass equation in the lowest \hat{I}^2 quintet. Physical Review C, 2017, 96, . | 2.9 | 3 |
| 88 | Isospin mixing and the cubic isobaric multiplet mass equation in the lowest \hat{I}^2 quintet. Physical Review C, 2021, 104, . | 2.9 | 3 |
| 89 | Notes on the preparation of technetium-99m labelled albumin. The International Journal of Applied Radiation and Isotopes, 1971, 22, 53-54. | 0.7 | 2 |
| 90 | Structure of the $K[\sup \hat{I}^2] \hat{a}^{\sim} = \hat{a}^{\sim} 4[\sup +]$ bands in $[\sup 186, 188]\text{Os}$. , 2009, , . | | 2 |

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|----|--|-----|-----------|
| 91 | Low-Background In-Trap Decay Spectroscopy with TITAN at TRIUMF. , 2015, , . Observation of a large \hat{I}^2 -delayed neutron emission component in ^{102}Rb | | 2 |
| 92 | ^{102}Rb decay and identification of excited states in ^{102}Sr | | 2 |
| 93 | Doppler-shift attenuation lifetime measurement of the ^{3621}Ar level. Physical Review C, 2017, 96, . Nuclear structure of ^{112}Cd | 2.9 | 2 |
| 94 | ^{112}Cd studied through the ^{112}Cd | | |

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| 109 | Nature of the $K^{\pi=4^+}$ bands in the Os isotopes. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 110 | First Results with TIGRESS and Accelerated Radioactive Ion Beams from ISAC: Coulomb Excitation of $^{20,21,29}\text{Na}$. , 2009, , . | | 0 |
| 111 | Gamma-Ray Spectroscopy at TRIUMF-ISAC: the New Frontier of Radioactive Ion Beam Research. , 2009, , . | | 0 |
| 112 | Experimental Guidance of ISB Corrections via Direct Nuclear Reactions. Journal of Physics: Conference Series, 2011, 312, 092036. | 0.4 | 0 |
| 113 | The Current Status of Precision Superallowed Fermi \hat{I}^2 -Decay Measurements at TRIUMF-ISAC. , 2011, , . | | 0 |
| 114 | Superallowed Fermi \hat{I}^2 decay studies at TRIUMF-ISAC. , 2013, , . | | 0 |
| 115 | Publisher's Note: Experimental $\int_{/}^{/} < \text{mml:mn} > 64 < / \text{mml:mn} > < / \text{mml:msup} > < / \text{mml:math} > \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (xmlns:m}$ | 2.9 | 0 |
| 116 | The DEuterated SCintillator Array for Neutron Tagging. EPJ Web of Conferences, 2014, 66, 11040. | 0.3 | 0 |
| 117 | Investigation of the E2 and E3 matrix elements in ^{200}Hg using inelastic scattering. EPJ Web of Conferences, 2014, 66, 02088. | 0.3 | 0 |
| 118 | Investigations of Spectroscopic Factors and Sum Rules from the Single Neutron Transfer Reaction $^{111}\text{Cd}(\overrightarrow{\text{m}{d}} \text{ , } \text{p})^{112}\text{Cd}$. EPJ Web of Conferences, 2014, 66, 02056. | 0.3 | 0 |
| 119 | High-Precision Half-life Measurements for the Superallowed \hat{I}^2 +Emitter ^{14}O . EPJ Web of Conferences, 2014, 66, 05012. | 0.3 | 0 |
| 120 | High-precision half-life and branching-ratio measurements for superallowed Fermi \hat{I}^2 +emitters at TRIUMF $\hat{\alpha}^{\text{r}}$ ISAC. EPJ Web of Conferences, 2014, 66, 05013. | 0.3 | 0 |
| 121 | New decay modes of the high-spin isomer of ^{124}Cs . European Physical Journal A, 2017, 53, 1. | 2.5 | 0 |
| 122 | A HIGH-PRECISION BRANCHING-RATIO MEASUREMENT FOR THE SUPERALLOWED \hat{I}^2 + EMITTER ^{74}Rb . , 2013, , . | | 0 |
| 123 | TESTS OF A FAST PLASTIC SCINTILLATOR FOR HIGH-PRECISION HALF-LIFE MEASUREMENTS. , 2013, , . | | 0 |
| 124 | MEASUREMENT OF THE SPECTROSCOPIC QUADRUPOLE MOMENT FOR THE $2^+_{\{1\}}$ STATE IN ^{10}Be : TESTING AB INITIO CALCULATIONS. , 2013, , . | | 0 |
| 125 | THE CONVERSION ELECTRON STUDY FOR ^{110}Cd . , 2013, , . | | 0 |
| 126 | EXPERIMENTAL GUIDANCE FOR ISOSPIN SYMMETRY BREAKING CALCULATIONS VIA SINGLE NEUTRON PICKUP REACTIONS. , 2013, , . | | 0 |

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| 127 | STRUCTURE OF ¹⁵² Sm VIA DEUTERON INELASTIC SCATTERING TO PROBE THE TETRAHEDRAL SYMMETRY. , 2013, , . | | 0 |
| 128 | SPECTROSCOPIC FACTORS FROM THE SINGLE NEUTRON TRANSFER REACTION ¹¹¹ Cd(d,p) ¹¹² Cd. , 2013, , . | | 0 |
| 129 | Investigation of ¹¹² Cd via the (d,p) Reaction and a Reassessment of the Quadrupole–Octupole Coupled Excitation. , 2015, , . | | 0 |
| 130 | Detailed Conversion Electron Study of ¹¹⁰ Cd. , 2015, , . | | 0 |
| 131 | Nuclear Structure Studied with Direct Reactions for Fundamental Symmetry Tests. Acta Physica Polonica B, 2018, 49, 229. | 0.8 | 0 |
| 132 | High-precision half-life determination of ¹⁴ O via direct β counting. European Physical Journal A, 2022, 58, 1. | 2.5 | 0 |