Richard Britton

List of Publications by Year
in descending order

42 papers	439 citations	687363 13 h-index	794594 19 g-index
44 all docs	44 docs citations	44 times ranked	341 citing authors

#	Article	IF	Citations
1	Analysis of radionuclide detection events on the International Monitoring System. Journal of Environmental Radioactivity, 2022, 242, 106789.	1.7	8
2	Next-generation particulate monitoring. Applied Radiation and Isotopes, 2022, 184, 110156.	1.5	2
3	Enhancing the detection sensitivity of a high-resolution Î² âˆ’ Î³ coincidence spectrometer. Journal of Environmental Radioactivity, 2022, 250, 106915.	1.7	4
4	A Consideration of Radioxenon Detections Around the Korean Peninsula. Pure and Applied Geophysics, 2021, 178, 2651-2664.	1.9	2
5	Analysis of environmental radioxenon detections in the UK. Journal of Environmental Radioactivity, 2021, 234, 106629.	1.7	9
6	Production and measurement of fission product noble gases. Journal of Environmental Radioactivity, 2021, 238-239, 106733.	1.7	0
7	Performance testing of a Compton suppressed coincidence measurements using the Advanced Radionuclide Gamma-spectrOmeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 951, 163009.	1.6	9
8	A high-resolution<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2159" altimg="si240.svg"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">âˆ’</mml:mo><mml:mi>Î³</mml:mi></mml:mrow></mml:math>Âcoincidence spectrometry system for radioxenon measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164452.	1.6	7
9	Improving the sensitivity and reliability of radionuclide measurements at remote international monitoring stations. Journal of Environmental Radioactivity, 2020, 216, 106187.	1.7	4
10	High resolution Î² â€” Î³ coincidence spectrometry at the UK CTBT Radionuclide Laboratory. Journal of Physics: Conference Series, 2020, 1643, 012204.	0.4	1
11	Coincidence-based High-resolution Analysis for On-site-inspection Spectrometry (CHAOS) development. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 215-222.	1.6	3
12	Limits of detection â€” Enhancing identification of anthropogenic radionuclides. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 947, 162818.	1.6	7
13	International challenge to model the long-range transport of radioxenon released from medical isotope production to six Comprehensive Nuclear-Test-Ban Treaty monitoring stations. Journal of Environmental Radioactivity, 2018, 192, 667-686.	1.7	27
14	International inter-comparison exercise on $${}^{153}hbox {Sm}$$. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 107-115.	1.5	7
15	Nanosecond lifetime measurements of Ï€=9/2- intrinsic excited states and low-lying B(E1) strengths in 183Re using combined HPGe-LaBr3 coincidence spectroscopy. Radiation Physics and Chemistry, 2017, 137, 7-11.	2.8	1
16	Time sequence determination of parentâ€“daughter radionuclides using gamma-spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 2017, 313, 191-196.	1.5	4
17	Measurement of 160Tb and 161Tb in nuclear forensics samples. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 727-736.	1.5	8
18	EXILLâ€"a high-efficiency, high-resolution setup for Î³-spectroscopy at an intense cold neutron beam facility. Journal of Instrumentation, 2017, 12, P11003-P11003.	1.2	39

#	ARTICLE	IF	CITATIONS
19	Incorporating Xâ€“ray summing into gammaâ€“gamma signature quantification. Applied Radiation and Isotopes, 2016, 116, 128-133.	1.5	8
20	An automated Monte-Carlo based method for the calculation of cascade summing factors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 834, 158-163.	1.6	6
21	A rapid dissolution procedure to aid initial nuclear forensics investigations of chemically refractory compounds and particles prior to gamma spectrometry. Analytica Chimica Acta, 2015, 900, 1-9.	5.4	8
22	Lifetime of the yrast<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mi>I</mml:mi><mml:mi>Ï€</mml:mi></mml:msu and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>E</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml:m in the transitional nucleus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathv.	2.9	12
23	A high-efficiency HPGe coincidence system for environmental analysis. Journal of Environmental Radioactivity, 2015, 146, 1-5.	1.7	22
24	Characterisation of a SAGe well detector using GEANT4 and LabSOCS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 786, 12-16.	1.6	13
25	Quantifying radionuclide signatures from a Î³â€“Î³ coincidence system. Journal of Environmental Radioactivity, 2015, 149, 158-163.	1.7	23
26	Coincidence corrections for a multi-detector gamma spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 769, 20-25.	1.6	17
27	Characterisation of cascade summing effects in gamma spectroscopy using Monte Carlo simulations. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 447-452.	1.5	5
28	Monte Carlo characterisation of a Compton suppressed broad-energy HPGe detector. Journal of Radioanalytical and Nuclear Chemistry, 2014, 300, 1253-1259.	1.5	6
29	Sub-nanosecond Half-life Measurement of the Yrast <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>I</mml:mi></mml:mrow><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow></m State in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><. Nuclear Data Sheets, 2014, 120, 59-61.	2.2	6
30	Maximising the sensitivity of a Î³ spectrometer for low-energy, low-activity radionuclides using Monte Carlo simulations. Journal of Environmental Radioactivity, 2014, 134, 1-5.	1.7	9
31	Monte-Carlo optimisation of a Compton suppression system for use with a broad-energy HPGe detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 762, 42-53.	1.6	16
32	Monte-Carlo based background reduction and shielding optimisation for a large hyper-pure germanium detector. Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 1491-1499.	1.5	6
33	Half-life of the yrast<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msup></mml:math>state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>188</mml:mn></mml:msup></mml:math>W: Evolution of deformation and collectivity in neutron-rich tungsten isotopes. Physical Review C, 2013, 88, .	2.9	21
34	Preliminary simulations of NaI(Tl) detectors, and coincidence analysis using event stamping. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 573-577.	1.5	19
35	Improving the effectiveness of a low-energy Compton suppression system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 64-68.	1.6	15
36	Determining the efficiency of a broad-energy HPGe detector using Monte Carlo simulations. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 2035-2041.	1.5	16

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37	Electromagnetic transition rates in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>80</mml:mn></mml:mrow></mml:math>nucleus xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mrow /><mml:mrow><mml:mn>58</mml:mn></mml:mrow><mml:mn>138</mml:mn></mml:msubsup></mml:math>Ce. Physical Review C, 2013, 87, .	2.9	25
38	Precision Lifetime Measurements Using LaBr3Detectors With Stable and Radioactive Beams. EPJ Web of Conferences, 2013, 63, 01008.	0.3	11
39	[sup 7]Li-induced reactions for fast-timing with LaBr[sub 3]:Ce detectors. , 2012, , .		2
40	Electromagnetic Transition Rate Measurements in the<i>N</i>=80 Isotone,¹³⁸Ce. Journal of Physics: Conference Series, 2012, 381, 012057.	0.4	0
41	Compton suppression systems for environmental radiological analysis. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 33-39.	1.5	28
42	A Software Package for Radionuclide Detection Event Analysis. Pure and Applied Geophysics, 0, , .	1.9	1