

Denis E Bergeron

List of Publications by Year in descending order

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69
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citations

430442

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69
all docs

69
docs citations

69
times ranked

1279
citing authors

#	ARTICLE	IF	CITATIONS
1	Realization and dissemination of activity standards for medically important alpha-emitting radionuclides. Applied Radiation and Isotopes, 2022, 184, 110161.	0.7	2
2	Joint Measurement of the ^{235}U Antineutrino Spectrum by PROSPECT and STEREO. Physical Review Letters, 2022, 128, 081802.	2.9	11
3	PROSPECT-II physics opportunities. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 070501.	1.4	5
4	Ra-224 activity, half-life, and 241 keV gamma ray absolute emission intensity: A NIST-NPL bilateral comparison. Applied Radiation and Isotopes, 2021, 170, 109572.	0.7	6
5	Toward a New Primary Standardization of Radionuclide Massic Activity Using Microcalorimetry and Quantitative Milligram-Scale Samples. Journal of Research of the National Institute of Standards and Technology, 2021, 126, .	0.4	3
6	Primary standardization of ^{224}Ra activity by liquid scintillation counting. Applied Radiation and Isotopes, 2020, 155, 108933.	0.7	6
7	Radionuclide calibrator responses for ^{224}Ra in solution and adsorbed on calcium carbonate microparticles. Applied Radiation and Isotopes, 2020, 164, 109265.	0.7	2
8	Standardization of I-124 by three liquid scintillation-based methods. Applied Radiation and Isotopes, 2019, 154, 108849.	0.7	3
9	A low mass optical grid for the PROSPECT reactor antineutrino detector. Journal of Instrumentation, 2019, 14, P04014-P04014.	0.5	10
10	Lithium-loaded liquid scintillator production for the PROSPECT experiment. Journal of Instrumentation, 2019, 14, P03026-P03026.	0.5	16
11	An update on \hat{e} -dose calibrator™ settings for nuclides used in nuclear medicine. Nuclear Medicine Communications, 2018, 39, 500-504.	0.5	14
12	Assessing the absolute quantitative accuracy of Positron Emission Tomography for Cu-64 using traceable calibrated phantoms. Applied Radiation and Isotopes, 2018, 134, 68-73.	0.7	1
13	Monte Carlo modelling of live-timed anticoincidence (LTAC) counting for Cu-64. Applied Radiation and Isotopes, 2018, 134, 280-285.	0.7	7
14	Two determinations of the Ge-68 half-life. Applied Radiation and Isotopes, 2018, 134, 416-420.	0.7	4
15	Results of an international comparison of activity measurements of ^{68}Ge . Applied Radiation and Isotopes, 2018, 134, 385-390.	0.7	8
16	First Search for Short-Baseline Neutrino Oscillations at HFIR with PROSPECT. Physical Review Letters, 2018, 121, 251802.	2.9	99
17	Standardization of ^{64}Cu activity. Applied Radiation and Isotopes, 2018, 139, 266-273.	0.7	5
18	Performance of a segmented ^6Li -loaded liquid scintillator detector for the PROSPECT experiment. Journal of Instrumentation, 2018, 13, P06023-P06023.	0.5	23

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19	Determination of photon emission probability for the main gamma ray and half-life measurements of ^{64}Cu . Applied Radiation and Isotopes, 2017, 129, 6-12.	0.7	6
20	Phase stability and lithium loading capacity in a liquid scintillation cocktail. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 767-771.	0.7	5
21	Natural Uranium Radioactivity Solution Standard: SRM 4321d. Journal of Research of the National Institute of Standards and Technology, 2017, 122, 1-19.	0.4	0
22	Comparison of tritiated-water standards by liquid scintillation for calibration of a new Standard Reference Material [®] . Applied Radiation and Isotopes, 2016, 112, 38-49.	0.7	3
23	(Mis)use of ^{133}Ba as a calibration surrogate for ^{131}I in clinical activity calibrators. Applied Radiation and Isotopes, 2016, 109, 250-253.	0.7	1
24	Source self-attenuation in ionization chamber measurements of ^{57}Co solutions. Applied Radiation and Isotopes, 2016, 109, 402-404.	0.7	2
25	Long-term stability of carrier-added ^{68}Ge standardized solutions. Applied Radiation and Isotopes, 2016, 109, 214-216.	0.7	7
26	Comparison of ^{14}C liquid scintillation counting at NIST and NRC Canada. Applied Radiation and Isotopes, 2016, 109, 30-35.	0.7	3
27	Micellar phase boundaries under the influence of ethyl alcohol. Applied Radiation and Isotopes, 2016, 109, 264-269.	0.7	1
28	Two determinations of the ^{223}Ra half-life. Applied Radiation and Isotopes, 2015, 102, 74-80.	0.7	10
29	Determination of photon emission probabilities for the main gamma-rays of ^{223}Ra in equilibrium with its progeny. Applied Radiation and Isotopes, 2015, 101, 15-19.	0.7	22
30	Secondary standards for ^{223}Ra revised. Applied Radiation and Isotopes, 2015, 101, 10-14.	0.7	7
31	Impact of Recent Change in the National Institute of Standards and Technology Standard for ^{18}F on the Relative Response of ^{68}Ge -Based Mock Syringe Dose Calibrator Standards. Journal of Nuclear Medicine, 2015, 56, 1453-1457.	2.8	12
32	A Review of NIST Primary Activity Standards for ^{18}F : 1982 to 2013. Journal of Research of the National Institute of Standards and Technology, 2014, 119, 371.	0.4	10
33	A new NIST primary standardization of ^{18}F . Applied Radiation and Isotopes, 2014, 85, 77-84.	0.7	19
34	Identification of Phase Boundaries in Surfactant Solutions via Compton Spectrum Quenching. Journal of Physical Chemistry A, 2014, 118, 8563-8571.	1.1	4
35	Development of a calibration methodology for large-volume, solid ^{68}Ge phantoms for traceable measurements in positron emission tomography. Applied Radiation and Isotopes, 2014, 87, 5-9.	0.7	12
36	Dose calibrator manufacturer-dependent bias in assays of ^{123}I . Applied Radiation and Isotopes, 2014, 90, 79-83.	0.7	4

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37	Micelle size effect on Fe-55 liquid scintillation efficiency. <i>Applied Radiation and Isotopes</i> , 2014, 87, 282-286.	0.7	4
38	Calibration of Traceable Solid Mock 131I Phantoms Used in an International SPECT Image Quantification Comparison. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2013, 118, 359.	0.4	8
39	Results of an international comparison for the activity measurement of 177Lu. <i>Applied Radiation and Isotopes</i> , 2012, 70, 1825-1830.	0.7	17
40	The effect of impurities on calculated activity in the triple-to-double coincidence ratio liquid scintillation method. <i>Applied Radiation and Isotopes</i> , 2012, 70, 2170-2175.	0.7	2
41	Determination of micelle size in some commercial liquid scintillation cocktails. <i>Applied Radiation and Isotopes</i> , 2012, 70, 2164-2169.	0.7	15
42	Development of secondary standards for 223Ra. <i>Applied Radiation and Isotopes</i> , 2010, 68, 1367-1370.	0.7	14
43	Identification of Active Sites of Biomolecules II: Saccharide and Transition Metal Ion in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2491-2499.	1.1	12
44	Electronic spectroscopy of the $\sigma^* \leftarrow \pi$ transition of NO ⁺ -Kr and shielding/penetration effects in Rydberg states of NO ⁺ -Rg complexes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 375-379.	1.3	4
45	Identification of Active Sites of Biomolecules. 1. Methyl- α -mannopyranoside and Fe ^{III} . <i>Journal of Physical Chemistry A</i> , 2008, 112, 2940-2947.	1.1	16
46	Ligand Exchange Reactions in the Formation of Diphosphine-Protected Gold Clusters. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12808-12814.	1.5	34
47	Glycosidic linkage conformation of methyl- α -mannopyranoside. <i>Journal of Chemical Physics</i> , 2008, 129, 045102.	1.2	10
48	A Hadamard transform electron ionization time-of-flight mass spectrometer. <i>Review of Scientific Instruments</i> , 2008, 79, 014102.	0.6	6
49	Zero electron kinetic energy spectroscopy of the para-fluorotoluene cation. <i>Journal of Chemical Physics</i> , 2007, 126, 244304.	1.2	32
50	Impact of Swapping Ethyl for Phenyl Groups on Diphosphine-Protected Undecagold. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14625-14627.	1.5	40
51	Ligand Dissociation and Core Fission from Diphosphine-Protected Gold Clusters. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8195-8201.	1.5	40
52	Structural, electronic, and chemical properties of multiply iodized aluminum clusters. <i>Journal of Chemical Physics</i> , 2006, 124, 154311.	1.2	41
53	(2 + 1) REMPI spectroscopy of the NO ⁺ -CO, NO ⁺ -N ₂ , and NO ⁺ -{N ₂ , Ar} van der Waals complexes in the region of the 4s and 3d Rydberg states. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4758-4765.	1.3	4
54	Electronic spectroscopy of para-fluorotoluene clusters. <i>Chemical Physics Letters</i> , 2006, 430, 282-286.	1.2	4

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55	Progress in understanding the intramolecular vibrational redistribution dynamics in the S1 state of para-fluorotoluene. <i>Journal of Chemical Physics</i> , 2006, 125, 124308.	1.2	27
56	Electronic spectroscopy of the 3d Rydberg states of NO ⁺ (Rg) (Rg=Ne,Ar,Kr,Xe) van der Waals complexes. <i>Journal of Chemical Physics</i> , 2006, 124, 214302.	1.2	21
57	Electronic spectroscopy of NO ⁺ (Rg) _x complexes (Rg=Ne,Ar) via the 4s and 3d Rydberg states. <i>Journal of Chemical Physics</i> , 2006, 125, 144319.	1.2	11
58	Association of C3H6 to aluminum cluster anions. <i>Chemical Physics Letters</i> , 2005, 415, 230-233.	1.2	14
59	Al Cluster Superatoms as Halogens in Polyhalides and as Alkaline Earths in Iodide Salts. <i>Science</i> , 2005, 307, 231-235.	6.0	417
60	Electronic spectroscopy of the deuterated isotopomers of the NO ⁺ methane molecular complex. <i>Journal of Chemical Physics</i> , 2005, 123, 204305.	1.2	14
61	Reactions of Al _n X ₋ with Methyl Iodide: The Enhanced Stability of Al ₇ I and the Chemical Significance of Active Centers. <i>Journal of the American Chemical Society</i> , 2005, 127, 16048-16053.	6.6	46
62	Formation of Al ₁₃ I ⁻ : Evidence for the Superhalogen Character of Al ₁₃ . <i>ChemInform</i> , 2004, 35, no.	0.1	1
63	Stable Cluster Motifs for Nanoscale Chromium Oxide Materials. <i>Nano Letters</i> , 2004, 4, 261-265.	4.5	46
64	Formation and properties of halogenated aluminum clusters. <i>Journal of Chemical Physics</i> , 2004, 121, 10456-10466.	1.2	73
65	Formation of Al ₁₃ I ⁻ : Evidence for the Superhalogen Character of Al ₁₃ . <i>Science</i> , 2004, 304, 84-87.	6.0	515
66	Chemical formation of neutral complexes from charged metal clusters: reactions of pre-formed aluminum cluster anions with methyl iodide. <i>Chemical Physics Letters</i> , 2003, 371, 189-193.	1.2	23
67	Reactions of boron cluster anions: implication of site-specific chemical neutralization pathways. <i>International Journal of Mass Spectrometry</i> , 2003, 230, 71-74.	0.7	8
68	Met-Cars: mass deposition and preliminary structural study via TEM. <i>International Journal of Mass Spectrometry</i> , 2003, 229, 11-17.	0.7	26
69	Insights into the stability of silicon cluster ions: Reactive etching with O ₂ . <i>Journal of Chemical Physics</i> , 2002, 117, 3219-3223.	1.2	47