

# Christiaan Vermeulen

## List of Publications by Year in descending order

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55  
papers

924  
citations

516710

16  
h-index

477307

29  
g-index

56  
all docs

56  
docs citations

56  
times ranked

806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of $\sigma_{\text{p,n}}$ for $^{100}\text{Ag}$ and $^{100}\text{Cd}$ . Physical Review C, 2021, 103, .	2.9	9
2	Developing the $^{134}\text{Ce}$ and $^{134}\text{La}$ pair as companion positron emission tomography diagnostic isotopes for $^{225}\text{Ac}$ and $^{227}\text{Th}$ radiotherapeutics. Nature Chemistry, 2021, 13, 284-289.	13.6	25
3	Large-scale production of $^{88}\text{Y}$ and $^{88}\text{Zr}/^{88}\text{Y}$ generators: A proof of concept study for a 70A MeV H <sup>2</sup> cyclotron. Applied Radiation and Isotopes, 2021, 168, 109469.	1.5	2
4	Investigating high-energy proton-induced reactions on spherical nuclei: Implications for the preequilibrium exciton model. Physical Review C, 2021, 103, .	2.9	9
5	A holistic approach to the optimization of neutron beam transport at the LANSCE facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1013, 165631.	1.6	5
6	Measurement and modeling of proton-induced reactions on arsenic from 35 to 200 MeV. Physical Review C, 2021, 104, .	2.9	7
7	Novel design and diagnostics improvements for increased production capacity and improved reliability at the Los Alamos Isotope Production Facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 956, 163316.	1.6	7
8	Production of $^{230}\text{Pa}$ by proton irradiation of $^{232}\text{Th}$ at the LANL isotope production facility: Precursor of $^{230}\text{U}$ for targeted alpha therapy. Applied Radiation and Isotopes, 2020, 156, 108973.	1.5	15
9	Cross section measurements for proton induced reactions on natural La. Nuclear Instruments & Methods in Physics Research B, 2020, 468, 81-88.	1.4	8
10	Nonstatistical fluctuations in the $\sigma_{\text{p,n}}$ for $^{100}\text{Ag}$ and $^{100}\text{Cd}$ . Physical Review C, 2021, 103, .	2.9	9
11	Multi-jet gas cooling of in-beam foils or specimens: CFD predictions of the convective heat-transfer coefficient. EPJ Web of Conferences, 2020, 229, 05002.	0.3	0
12	Preclinical investigations and first-in-human application of $^{152}\text{Tb}$ -PSMA-617 for PET/CT imaging of prostate cancer. EJNMMI Research, 2019, 9, 68.	2.5	39
13	Internal radiation dosimetry of a $^{152}\text{Tb}$ -labeled antibody in tumor-bearing mice. EJNMMI Research, 2019, 9, 53.	2.5	17
14	Natural nickel as a proton beam energy monitor for energies ranging from 15 to 30 MeV. Nuclear Instruments & Methods in Physics Research B, 2019, 443, 1-4.	1.4	1
15	Proton Beam Production of Curie Scale Ac-225 at 100 MeV and Below. Journal of Medical Imaging and Radiation Sciences, 2019, 50, S13.	0.3	0
16	Large-Scale Production of $^{119\text{m}}\text{Te}$ and $^{119}\text{Sb}$ for Radiopharmaceutical Applications. ACS Central Science, 2019, 5, 494-505.	11.3	12
17	Measurement of the $^{43}\text{Sc}$ production cross-section with a deuteron beam. Applied Radiation and Isotopes, 2019, 145, 205-208.	1.5	9
18	Single-jet gas cooling of in-beam foils or specimens: Prediction of the convective heat-transfer coefficient. AIP Conference Proceedings, 2018, .	0.4	1

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19	High Efficiency Cyclotron Trap Assisted Positron Moderator. <i>Instruments</i> , 2018, 2, 10.	1.8	3
20	Encapsulation methods for solid radionuclide production targets at a medium-energy cyclotron facility. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
21	Alpha-PET with terbium-149: evidence and perspectives for radiotheragnostics. <i>EJNMMI Radiopharmacy and Chemistry</i> , 2017, 1, 5.	3.9	72
22	Clinical evaluation of the radiolanthanide terbium-152: first-in-human PET/CT with <sup>152</sup> Tb-DOTATOC. <i>Dalton Transactions</i> , 2017, 46, 14638-14646.	3.3	61
23	Concurrent spectrometry of annihilation radiation and characteristic gamma-rays for activity assessment of selected positron emitters. <i>Applied Radiation and Isotopes</i> , 2017, 129, 76-86.	1.5	3
24	In-flight annihilation correction for 511 keV photon spectrometry. <i>EPJ Web of Conferences</i> , 2017, 146, 08010.	0.3	1
25	Production of <sup>28</sup> Mg by bombardment of natCl with 200 MeV protons: Proof-of-concept study for a stacked LiCl target. <i>Applied Radiation and Isotopes</i> , 2016, 115, 125-132.	1.5	1
26	Contribution of Auger/conversion electrons to renal side effects after radionuclide therapy: preclinical comparison of <sup>161</sup> Tb-folate and <sup>177</sup> Lu-folate. <i>EJNMMI Research</i> , 2016, 6, 13.	2.5	43
27	Preclinical in vivo application of <sup>152</sup> Tb-DOTANOC: a radiolanthanide for PET imaging. <i>EJNMMI Research</i> , 2016, 6, 35.	2.5	40
28	Imaging quality of <sup>44</sup> Sc in comparison with five other PET radionuclides using Derenzo phantoms and preclinical PET. <i>Applied Radiation and Isotopes</i> , 2016, 110, 129-133.	1.5	43
29	Cyclotron production of <sup>44</sup> Sc: From bench to bedside. <i>Nuclear Medicine and Biology</i> , 2015, 42, 745-751.	0.6	91
30	Excitation functions of natZr+p nuclear processes up to 70MeV: New measurements and compilation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 343, 173-191.	1.4	14
31	Cross sections of proton-induced reactions on <sup>152</sup> Gd, <sup>155</sup> Gd and <sup>159</sup> Tb with emphasis on the production of selected Tb radionuclides. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 319, 128-140.	1.4	41
32	The production of <sup>103</sup> Pd and <sup>109</sup> Cd from a proton irradiated tandem natAg/natAg targets. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 301, 227-236.	1.5	2
33	New Nuclear Structure and Decay Results in the <sup>76</sup> Ge- <sup>76</sup> As System. <i>Nuclear Data Sheets</i> , 2014, 120, 44-47.	2.2	5
34	A vertical-beam target station and high-power targetry for the cyclotron production of radionuclides with medium energy protons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 727, 131-144.	1.6	9
35	Cross sections of proton-induced reactions on Gd with special emphasis on the production possibilities of <sup>152</sup> Tb and <sup>155</sup> Tb. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 275, 24-32.	1.4	40
36	Studies of the effect of tracer activity on time-averaged positron emission particle tracking measurements on tumbling mills at PEPT Cape Town. <i>Minerals Engineering</i> , 2011, 24, 261-266.	4.3	35

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37	Investigation of Production Possibilities of Radiobromines for Diagnostic and Therapeutic Applications. Journal of the Korean Physical Society, 2011, 59, 1983-1986.	0.7	6
38	Excitation Functions of Proton Induced Reactions on $^{89}\text{Y}$ and $^{93}\text{Nb}$ with Emphasis on the Production of Selected Radio-Zirconiums. Journal of the Korean Physical Society, 2011, 59, 1991-1994.	0.7	20
39	Excitation functions of $^{186,187,188,189,190,192}\text{Ir}$ formed in proton-induced reactions on highly enriched $^{192}\text{Os}$ up to 66 MeV. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3306-3314.	1.4	8
40	New cross section measurements for the production of the Auger electron emitters $^{77}\text{Br}$ and $^{80m}\text{Br}$ . Radiochimica Acta, 2010, 98, 749-755.	1.2	14
41	New cross section measurements for production of the positron emitters $^{75}\text{Br}$ and $^{76}\text{Br}$ via intermediate energy proton induced reactions. Radiochimica Acta, 2009, 97, .	1.2	17
42	Investigation of the $^{68}\text{Zn}(p, 2p)^{67}\text{Cu}$ nuclear reaction: New measurements up to 40 MeV and compilation up to 100 MeV. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1877-1881.	1.4	31
43	Production possibility of $^{186}\text{Re}$ via the $^{192}\text{Os}(p, \hat{1}\pm 3n)^{186}\text{Re}$ nuclear reaction. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 261-263.	1.5	16
44	Carbon radioactivity of $^{223}\text{Ac}$ and a search for nitrogen emission. Journal of Physics: Conference Series, 2008, 111, 012050.	0.4	36
45	Production of $^{139}\text{Ce}$ by proton-induced reactions on $^{141}\text{Pr}$ and $\text{natLa}$ . Nuclear Instruments & Methods in Physics Research B, 2007, 255, 331-337.	1.4	13
46	Application of $\text{Zn} + p$ reactions for production of copper radioisotopes for medical studies. , 2007, , .		1
47	Production of carrier-free $^{28}\text{Mg}$ by 50–200 MeV protons on $\text{natCl}$ : excitation function and target optimization. , 2007, , .		1
48	Large discrepancies in the excitation function data of the $^{68}\text{Zn}(p, x)^{64}\text{Cu}$ reaction: a possible explanation. Journal of Physics: Conference Series, 2006, 41, 561-564.	0.4	0
49	Production of no-carrier-added $^{139}\text{Pr}$ via precursor decay in the proton bombardment of $\text{natPr}$ . Nuclear Instruments & Methods in Physics Research B, 2006, 252, 149-159.	1.4	20
50	The separation of Pa from a Th target by means of ion exchange chromatography. European Physical Journal D, 2006, 56, D357-D362.	0.4	1
51	The separation of Pa from A Th target by means of ion exchange chromatography. European Physical Journal D, 2006, 56, D357-D362.	0.4	3
52	Investigation of the $^{66}\text{Zn}(p, 2pn)^{64}\text{Cu}$ and $^{68}\text{Zn}(p, x)^{64}\text{Cu}$ nuclear processes up to 100 MeV: Production of $^{64}\text{Cu}$ . Nuclear Instruments & Methods in Physics Research B, 2005, 240, 625-637.	1.4	47
53	Excitation Functions and Production Rates of Radionuclides Produced in the Proton Bombardment of $\text{natPr}$ and $\text{natLa}$ . AIP Conference Proceedings, 2005, , .	0.4	1
54	Thick targets for the production of some radionuclides and the chemical processing of these targets at iThemba LABS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 521, 171-175.	1.6	9

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55	Separation of $^{103}\text{Pd}$ from Rh and Ag by the macroporous AC MP-1 anion exchange resin in Ag targets. Journal of Radioanalytical and Nuclear Chemistry, 2003, 256, 31-35.	1.5	5