Christiaan Vermeulen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5613521/publications.pdf

Version: 2024-02-01

55	924	16	29
papers	citations	h-index	g-index
56	56	56	806
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Cyclotron production of 44Sc: From bench to bedside. Nuclear Medicine and Biology, 2015, 42, 745-751.	0.6	91
2	Alpha-PET with terbium-149: evidence and perspectives for radiotheragnostics. EJNMMI Radiopharmacy and Chemistry, 2017, $1,5$.	3.9	72
3	Clinical evaluation of the radiolanthanide terbium-152: first-in-human PET/CT with ¹⁵² Tb-DOTATOC. Dalton Transactions, 2017, 46, 14638-14646.	3.3	61
4	Investigation of the 66Zn(p,2pn)64Cu and 68Zn(p,x)64Cu nuclear processes up to 100 MeV: Production of 64Cu. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 625-637.	1.4	47
5	Contribution of Auger/conversion electrons to renal side effects after radionuclide therapy: preclinical comparison of 161Tb-folate and 177Lu-folate. EJNMMI Research, 2016, 6, 13.	2.5	43
6	Imaging quality of 44Sc in comparison with five other PET radionuclides using Derenzo phantoms and preclinical PET. Applied Radiation and Isotopes, 2016, 110, 129-133.	1.5	43
7	Cross sections of proton-induced reactions on 152Gd, 155Gd and 159Tb with emphasis on the production of selected Tb radionuclides. Nuclear Instruments & Methods in Physics Research B, 2014, 319, 128-140.	1.4	41
8	Cross sections of proton-induced reactions on Gd with special emphasis on the production possibilities of 152Tb and 155Tb. Nuclear Instruments & Methods in Physics Research B, 2012, 275, 24-32.	1.4	40
9	Preclinical in vivo application of 152Tb-DOTANOC: a radiolanthanide for PET imaging. EJNMMI Research, 2016, 6, 35.	2.5	40
10	Preclinical investigations and first-in-human application of 152Tb-PSMA-617 for PET/CT imaging of prostate cancer. EJNMMI Research, 2019, 9, 68.	2.5	39
11	Carbon radioactivity of ²²³ Ac and a search for nitrogen emission. Journal of Physics: Conference Series, 2008, 111, 012050.	0.4	36
12	Studies of the effect of tracer activity on time-averaged positron emission particle tracking measurements on tumbling mills at PEPT Cape Town. Minerals Engineering, 2011, 24, 261-266.	4.3	35
13	Investigation of the 68Zn(p, 2p)67Cu 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
14	Developing the 134Ce and 134La pair as companion positron emission tomography diagnostic isotopes for 225Ac and 227Th radiotherapeutics. Nature Chemistry, 2021, 13, 284-289.	13.6	25
15	Production of no-carrier-added 139Pr via precursor decay in the proton bombardment of natPr. Nuclear Instruments & Methods in Physics Research B, 2006, 252, 149-159.	1.4	20
16	Excitation Functions of Proton Induced Reactions on 89Y and 93Nb with Emphasis on the Production of Selected Radio-Zirconiums. Journal of the Korean Physical Society, 2011, 59, 1991-1994.	0.7	20
17	New cross section measurements for production of the positron emitters 75Br and 76Br via intermediate energy proton induced reactions. Radiochimica Acta, 2009, 97, .	1.2	17
18	Internal radiation dosimetry of a 152Tb-labeled antibody in tumor-bearing mice. EJNMMI Research, 2019, 9, 53.	2.5	17

#	Article	IF	Citations
19	Production possibility of 186Re via the 192Os(p, $\hat{l}\pm3n$)186Re nuclear reaction. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 261-263.	1.5	16
20	Production of 230Pa by proton irradiation of 232Th at the LANL isotope production facility: Precursor of 230U for targeted alpha therapy. Applied Radiation and Isotopes, 2020, 156, 108973.	1.5	15
21	New cross section measurements for the production of the Auger electron emitters < sup > 77 < /sup > Br and < sup > 80m < /sup > Br. Radiochimica Acta, 2010, 98, 749-755.	1.2	14
22	Excitation functions of natZr+p nuclear processes up to 70MeV: New measurements and compilation. Nuclear Instruments & Methods in Physics Research B, 2015, 343, 173-191.	1.4	14
23	Production of 139Ce by proton-induced reactions on 141Pr and natLa. Nuclear Instruments & Methods in Physics Research B, 2007, 255, 331-337.	1.4	13
24	Large-Scale Production of ^{119m} Te and ¹¹⁹ Sb for Radiopharmaceutical Applications. ACS Central Science, 2019, 5, 494-505.	11.3	12
25	xmins:mmi="http://www.w3.org/1998/iviath/iviath/ivit"> <mmi:mrow><mmi:mmultiscripts><mmi:mi>Ci</mmi:mi>/><mml:none></mml:none><mml:mn>35</mml:mn>n<mml:mo>,S<mml:mi><mml:mprescripts></mml:mprescripts><mml:none< td=""><td></td><td></td></mml:none<></mml:mi></mml:mo></mmi:mmultiscripts></mmi:mrow>		
26	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
27	A vertical-beam target station and high-power targetry for the cyclotron production of radionuclides with medium energy protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 727, 131-144.	1.6	9
28	Measurement of the 43Sc production cross-section with a deuteron beam. Applied Radiation and Isotopes, 2019, 145, 205-208.	1.5	9
29	Investigating high-energy proton-induced reactions on spherical nuclei: Implications for the preequilibrium exciton model. Physical Review C, 2021, 103, .	2.9	9
30	Excitation functions of 186,187,188,189,190,192Ir formed in proton-induced reactions on highly enriched 192Os up to 66 MeV. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3306-3314.	1.4	8
31	Cross section measurements for proton induced reactions on natural La. Nuclear Instruments & Methods in Physics Research B, 2020, 468, 81-88.	1.4	8
32	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
33	Measurement and modeling of proton-induced reactions on arsenic from 35 to 200 MeV. Physical Review C, 2021, 104, .	2.9	7
34	Investigation of Production Possibilities of Radiobromines for Diagnostic and Therapeutic Applications. Journal of the Korean Physical Society, 2011, 59, 1983-1986.	0.7	6
35	Separation of 103Pd 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
36	New Nuclear Structure and Decay Results in the 76Ge–76As System. Nuclear Data Sheets, 2014, 120, 44-47.	2.2	5

#	Article	IF	Citations
37	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
38	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
39	Concurrent spectrometry of annihilation radiation and characteristic gamma-rays for activity assessment of selected positron emitters. Applied Radiation and Isotopes, 2017, 129, 76-86.	1.5	3
40	High Efficiency Cyclotron Trap Assisted Positron Moderator. Instruments, 2018, 2, 10. Direct measurement of <a 1998="" href="https://www.new.new.new.new.new.new.new.new.new.</td><td>1.8</td><td>3</td></tr><tr><td>41</td><td>xmins:mmi=" math="" mc"="" nttp:="" www.w3.org=""><mmi:mrow><mmi:mmultiscripts><mmi:mi>Ni</mmi:mi> /><mml:none /><mml:mn>59</mml:mn>,/><mml:none></mml:none><mml:mn>59</mml:mn> and <mml:math< td=""><td></td><td></td></mml:math<></mml:none </mmi:mmultiscripts></mmi:mrow>		
42	The production of 103Pd and 109Cd from a proton irradiated tandem natAg/natAg targets. Journal of Radioanalytical and Nuclear Chemistry, 2014, 301, 227-236.	1.5	2
43	Large-scale production of 88Y and 88Zr/88Y generators: A proof of concept study for a 70AMeV H <mml:math altimg="si2.svg" display="inline" id="d1e1025" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow></mml:mrow><mml:mrow></mml:mrow></mml:msup><td>1.5</td><td>2</td></mml:math>	1.5	2
44	Excitation and Isotopes, 2021, 160, 103469. Excitation Functions and Production Rates of Radionuclides Produced in the Proton Bombardment of natPr and natLa. AIP Conference Proceedings, 2005, , .	0.4	1
45	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
46	Production of 28Mg by bombardment of natCl with 200 MeV protons: Proof-of-concept study for a stacked LiCl target. Applied Radiation and Isotopes, 2016, 115, 125-132.	1.5	1
47	In-flight annihilation correction for 511 keV photon spectrometry. EPJ Web of Conferences, 2017, 146, 08010.	0.3	1
48	Single-jet gas cooling of in-beam foils or specimens: Prediction of the convective heat-transfer coefficient. AIP Conference Proceedings, 2018, , .	0.4	1
49	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
50	Application of Zn + p reactions for production of copper radioisotopes for medical studies. , 2007, , .		1
51	Production of carrier-free ²⁸ Mg by 50200 MeV protons on ^{nat} Cl: excitation function and target optimization., 2007,,.		1
52	Large discrepancies in the excitation function data of the $68Zn(p, x)64Cu$ reaction: a possible explanation. Journal of Physics: Conference Series, 2006, 41, 561-564.	0.4	0
53	Encapsulation methods for solid radionuclide production targets at a medium-energy cyclotron facility. AIP Conference Proceedings, 2018 , , .	0.4	0
54	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

#	Article	IF	CITATIONS
55	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	O