Arnaud Guertin

List of Publications by Year
in descending order

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46 papers	519 citations	758635 12 h-index	676716 22 g-index
49 all docs	49 docs citations	49 times ranked	439 citing authors

#	Article	IF	Citations
1	ARRONAX, a high-energy and high-intensity cyclotron for nuclear medicine. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 1377-1387.	3.3	96
2	The MEGAPIE-TEST project: Supporting research and lessons learned in first-of-a-kind spallation target technology. Nuclear Engineering and Design, 2008, 238, 1471-1495.	0.8	63
3	Production of scandium-44m and scandium-44g with deuterons on calcium-44: cross section measurements and production yield calculations. Physics in Medicine and Biology, 2015, 60, 6847-6864.	1.6	45
4	New excitation functions for proton induced reactions on natural titanium, nickel and copper up to 70 MeV. Nuclear Instruments & Methods in Physics Research B, 2016, 383, 191-212.	0.6	28
5	Production of Sc medical radioisotopes with proton and deuteron beams. Applied Radiation and Isotopes, 2018, 142, 104-112.	0.7	28
6	Nuclear reaction measurements of 95MeV/u 12C interactions on PMMA for hadrontherapy. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2676-2684.	0.6	26
7	Production of medical isotopes from a thorium target irradiated by light charged particles up to 70 MeV. Physics in Medicine and Biology, 2015, 60, 931-946.	1.6	24
8	Deuteron induced Tb-155 production, a theranostic isotope for SPECT imaging and auger therapy. Applied Radiation and Isotopes, 2016, 118, 281-289.	0.7	20
9	Technical note: Proton beam dosimetry at ultraâ€high dose rates (FLASH): Evaluation of GAFchromicâ„¢ (EBT3, EBTâ€XD) and OrthoChromic (OCâ€1) film performances. Medical Physics, 2022, 49, 2732-2745.	1.6	18
10	New Cross-Sections for natMo(Î±,x) Reactions and Medical 97Ru Production Estimations with Radionuclide Yield Calculator. Instruments, 2019, 3, 7.	0.8	17
11	Is 70Zn(d,x)67Cu the Best Way to Produce 67Cu for Medical Applications?. Frontiers in Medicine, 2021, 8, 674617.	1.2	17
12	232Th(d,4n)230Pa cross-section measurements at ARRONAX facility for the production of 230U. Nuclear Medicine and Biology, 2014, 41, e19-e22.	0.3	13
13	Is There an Interest to Use Deuteron Beams to Produce Non-Conventional Radionuclides?. Frontiers in Medicine, 2015, 2, 31.	1.2	13
14	Experience from the post-test analysis of MEGAPIE. Journal of Nuclear Materials, 2011, 415, 367-377.	1.3	12
15	How to produce high specific activity tin-117 m using alpha particle beam. Applied Radiation and Isotopes, 2016, 115, 113-124.	0.7	11
16	Measurements of 186Re production cross section induced by deuterons on natW target at ARRONAX facility. Nuclear Medicine and Biology, 2014, 41, e16-e18.	0.3	9
17	THE RADIOBIOLOGICAL PLATFORM AT ARRONAX. Radiation Protection Dosimetry, 2019, 183, 270-273.	0.4	8
18	High energy PIXE: A tool to characterize multi-layer thick samples. Nuclear Instruments & Methods in Physics Research B, 2018, 417, 41-45.	0.6	7

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19	Neutronic characterization of the MEGAPIE target. Annals of Nuclear Energy, 2009, 36, 350-354.	0.9	6
20	Cross section measurements of deuteron induced nuclear reactions on natural titanium up to 34 MeV. Applied Radiation and Isotopes, 2015, 103, 160-165.	0.7	6
21	A Monte Carlo Determination of Dose and Range Uncertainties for Preclinical Studies with a Proton Beam. Cancers, 2021, 13, 1889.	1.7	6
22	Development of a PIXE method at high energy with the ARRONAX cyclotron. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 895-901.	0.7	5
23	MEGAPIE: The Worldâ€™s First High-Power Liquid Metal Spallation Neutron Source. , 2016, , 279-287.		5
24	Gas Production in the MEGAPIE Spallation Target. Nuclear Science and Engineering, 2011, 169, 178-187.	0.5	4
25	New beam monitoring tool for radiobiology experiments at the cyclotron ARRONAX. Radiation Protection Dosimetry, 2015, 166, 257-260.	0.4	4
26	Neutron production in neutron-induced reactions at 96 MeV on56Fe and208Pb. Physical Review C, 2011, 84, .	1.1	3
27	EBT2 films response to alpha radiation at 48.3 MeV. Radiation Protection Dosimetry, 2014, 161, 428-432.	0.4	3
28	WEBEXPIR: Windowless target electron beam experimental irradiation. Journal of Nuclear Materials, 2008, 376, 302-306.	1.3	2
29	Investigation of energy dependance for EBT3 response to irradiation with alpha beams. Nuclear Instruments & Methods in Physics Research B, 2019, 454, 56-60.	0.6	2
30	High energy PIXE: New experimental K-shell ionization cross sections for silver and gold and comparison with theoretical values from ECPSSR/RECPSSR models. Nuclear Instruments & Methods in Physics Research B, 2020, 479, 120-124.	0.6	2
31	Bremsstrahlung X-rays as a non-invasive tool for ion beam monitoring. Nuclear Instruments & Methods in Physics Research B, 2021, 500-501, 76-82.	0.6	2
32	Electrochemical co-deposition of Niâ€“Gd2O3 for composite thin targets preparation: Production of 155Tb as a case study. Applied Radiation and Isotopes, 2022, 186, 110287.	0.7	2
33	Neutron-induced light-ion production from Fe, Pb and U at 96 MeV. Radiation Protection Dosimetry, 2007, 126, 123-125.	0.4	1
34	Gas production in the MEGAPIE spallation target. , 2011, , .		1
35	How to produce the highest tin-117m specific activity?. Radiotherapy and Oncology, 2016, 118, S35-S36.	0.3	1
36	Thick multi-layers analysis using high energy PIXE. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 104-107.	0.6	1

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37	Thorium-232 fission induced by light charged particles up to 70 MeV. EPJ Web of Conferences, 2017, 146, 04058.	0.1	1
38	MEASUREMENT OF 230Pa AND 186Re PRODUCTION CROSS SECTIONS INDUCED BY DEUTERONS AT ARRONAX FACILITY. International Journal of Modern Physics Conference Series, 2014, 27, 1460149.	0.7	0
39	Tb-155 production with gadolinium target: proton, deuteron or alpha beam?. Radiotherapy and Oncology, 2016, 118, S36.	0.3	0
40	How to produce scandium-44 efficiently?. Radiotherapy and Oncology, 2016, 118, S48.	0.3	0
41	Is there an interest to use deuteron beams to produce nonconventional radionuclides?. Radiotherapy and Oncology, 2016, 118, S49.	0.3	0
42	How nuclear data collected for medical radionuclides production could constrain nuclear codes. EPJ Web of Conferences, 2017, 146, 08008.	0.1	0
43	Studies of neutron-induced light-ion production with the MEDLEY facility. , 2007, , .		0
44	ARRONAX, a high intensity cyclotron in Nantes. , 2007, , .		0
45	(n,xn) measurements at 96 MeV. , 2007, , .		0
46	Une plateforme pour lâ€™analyse de matÃ©riaux par faisceaux dâ€™ions Ã ARRONAX. Ã‰tude de lâ€™effet dâ€™humiditÃ© sur les Ã©chantillons. Instrumentation Mesure Metrologie, 2016, 15, 117-127.	0.2	0