Cã©dric Carasco

List of Publications by Year
in descending order

52 papers	**547** citations	623734 **14** h-index	677142 **22** g-index
52 all docs	**52** docs citations	**52** times ranked	**206** citing authors

#	Article	IF	Citations
1	In-field tests of the EURITRACK tagged neutron inspection system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 397-405.	1.6	57
2	Development of the EURITRACK tagged neutron inspection system. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 295-298.	1.4	56
3	Measurement of 14MeV neutron-induced prompt gamma-ray spectra from 15 elements found in cargo containers. Applied Radiation and Isotopes, 2008, 66, 421-434.	1.5	42
4	Photon attenuation and neutron moderation correction factors for the inspection of cargo containers with tagged neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 638-643.	1.6	29
5	Experimental and MCNP simulated gamma-ray spectra for the UNCOSS neutron-based explosive detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 220-229.	1.6	28
6	The characterization of radioactive waste: a critical review of techniques implemented or under development at CEA, France. EPJ Nuclear Sciences & Technologies, 2018, 4, 3.	0.7	27
7	The use of alpha particle tagged neutrons for the inspection of objects on the sea floor for the presence of explosives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 133-137.	1.6	26
8	Conversion factors from counts to chemical ratios for the EURITRACK tagged neutron inspection system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 621-629.	1.6	23
9	Quantitative comparison between experimental and simulated gamma-ray spectra induced by 14MeV tagged neutrons. Applied Radiation and Isotopes, 2012, 70, 1186-1192.	1.5	16
10	Feasibility study of 235U and 239Pu characterization in radioactive waste drums using neutron-induced fission delayed gamma rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 832, 85-94.	1.6	16
11	Detection System of the First Rapidly Relocatable Tagged Neutron Inspection System (RRTNIS), Developed in the Framework of the European H2020 C-BORD Project. Physics Procedia, 2017, 90, 279-284.	1.2	16
12	Experimental validation of MCNP simulations for the EURITRACK Tagged Neutron Inspection System. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 291-294.	1.4	15
13	Material characterization in cemented radioactive waste with the associated particle technique. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 619, 432-435.	1.6	14
14	MCNP Output Data Analysis with ROOT (MODAR). Computer Physics Communications, 2010, 181, 1161-1166.	7.5	14
15	Quantitative comparison between PGNAA measurements and MCNPX simulations. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 671-677.	1.5	11
16	Data Acquisition and Analysis of the UNCOSS Underwater Explosive Neutron Sensor. IEEE Transactions on Nuclear Science, 2012, 59, 1438-1442.	2.0	10
17	Passive and Active Correlation Techniques for the Detection of Nuclear Materials. IEEE Transactions on Nuclear Science, 2014, 61, 2228-2234.	2.0	10
18	Design of the rapidly relocatable tagged neutron inspection system of the C-BORD project. , 2016, , .		10

#	Article	IF	Citations
19	Gamma signatures of the C-BORD Tagged Neutron Inspection System. EPJ Web of Conferences, 2018, 170, 07011.	0.3	9
20	Cross-Talk Characterization in Passive Neutron Coincidence Counting of Radioactive Waste Drums With Plastic Scintillators. IEEE Transactions on Nuclear Science, 2016, 63, 1513-1519.	2.0	8
21	Passive Neutron Coincidence Counting With Plastic Scintillators for the Characterization of Radioactive Waste Drums. IEEE Transactions on Nuclear Science, 2017, 64, 2719-2724.	2.0	8
22	Characterization of Uranium Ore Samples by HPGe Gamma-Ray Spectroscopy. IEEE Transactions on Nuclear Science, 2020, 67, 654-661.	2.0	8
23	Performances of C-BORDâ€™s Tagged Neutron Inspection System for Explosives and Illicit Drugs Detection in Cargo Containers. IEEE Transactions on Nuclear Science, 2021, 68, 346-353.	2.0	8
24	HPGe-detector shielding optimization with MCNP for the MEDINA neutron activation cell. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 865-874.	1.5	7
25	Quantitative comparison between PGNAA measurements and MCNP calculations in view of the characterization of radioactive wastes in Germany and France. AIP Conference Proceedings, 2013, , .	0.4	6
26	Improving Gross Count Gamma-Ray Logging in Uranium Mining With the NGRS Probe. IEEE Transactions on Nuclear Science, 2018, 65, 919-923.	2.0	6
27	Detailed MCNP Simulations of Gamma-Ray Spectroscopy Measurements With Calibration Blocks for Uranium Mining Applications. IEEE Transactions on Nuclear Science, 2018, 65, 2533-2538.	2.0	6
28	Coupling gamma ray spectrometry and tomography in a Bayesian frame. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 990, 164985.	1.6	6
29	MCNP output data analysis with ROOT (MODAR). Computer Physics Communications, 2010, 181, 2210-2211.	7.5	5
30	C-BORD - an overview of efficient toolbox for high-volume freight inspection. , 2017, , .		5
31	Feasibility study of fissile mass detection in 870 L radioactive waste drums using delayed gamma rays from neutron-induced fission. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1185-1194.	1.5	5
32	Materials characterisation with the Associated Particle Technique. , 2012, , .		4
33	Elemental Characterization of LL-MA Radioactive Waste Packages With the Associated Particle Technique. IEEE Transactions on Nuclear Science, 2012, 59, 1390-1396.	2.0	4
34	Measuring hydrogen with fast neutrons: Application to organic materials identification in cargo containers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 951, 163030.	1.6	4
35	High-Resolution Gamma Spectrometry of a Plutonium Bearing Waste Drum With High-Energy Reaction-Induced Gamma Rays. IEEE Transactions on Nuclear Science, 2020, 67, 575-584.	2.0	4
36	Monte Carlo parametric studies of neutron interrogation with the Associated Particle Technique for cargo container inspections. , 2014, , .		4

#	Article	IF	Citations
37	Improvement of the calibration database of the EURITRACK tagged neutron inspection system. , 2009, , .		3
38	Detection of special nuclear materials with tagged neutrons. , 2016, , .		3
39	Data acquisition and analysis of the UNCOSS underwater explosive neutron sensor. , 2011, , .		2
40	Elemental characterization of LL-MA radioactive waste packages with the associated particle technique. , 2011, , .		2
41	Pulsed neutron interrogation with PVT plastic scintillators to detect nuclear materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 976, 164276.	1.6	2
42	Simulation of delayed gamma rays from neutron-induced fissions using MCNP 6.1. EPJ Web of Conferences, 2020, 225, 06007.	0.3	2
43	Sorting fission from parasitic coincidences of neutrons and gamma rays in plastic scintillators using particle times of flight. EPJ Web of Conferences, 2021, 253, 07014.	0.3	2
44	Organic scintillators response function modeling for Monte Carlo simulation of Time-of-Flight measurements. Applied Radiation and Isotopes, 2012, 70, 1367-1369.	1.5	1
45	The use of self-induced X-ray fluorescence in gamma-ray spectroscopy of uranium ore samples. EPJ Web of Conferences, 2020, 225, 05003.	0.3	1
46	Sea container inspection with tagged neutrons. EPJ Nuclear Sciences & Technologies, 2021, 7, 6.	0.7	1
47	Low-Resolution Gamma Spectrometry of Uranium Ores to Determine U Concentration and U/Rn Imbalance. IEEE Transactions on Nuclear Science, 2022, 69, 761-767.	2.0	1
48	Monte Carlo simulation of high-level radioactive waste characterization with the associated particle technique. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 705, 61-73.	1.6	0
49	POLITRANI, a new toolkit to simulate organic scintillator pulses. , 2013, , .		0
50	Beryllium characterization in powders containing plutonium by photoneutron activation analysis using a 124Sb gamma source. Journal of Radioanalytical and Nuclear Chemistry, 2016, 309, 967-971.	1.5	0
51	COuntLOss in NEutron multiplicity assessment (COLONEMA). Computer Physics Communications, 2016, 200, 285-290.	7.5	0
52	Detection of Fission Coincidences With Plastic Scintillators for the Characterization of Radioactive Waste Drums. IEEE Transactions on Nuclear Science, 2022, 69, 818-824.	2.0	0