Alex TarancÃ³n

List of Publications by Year
in descending order

44 papers	503 citations	623734 14 h-index	713466 21 g-index
44 all docs	44 docs citations	44 times ranked	153 citing authors

#	Article	IF	Citations
1	Mixed waste reduction in radioactivity determination by using plastic scintillators. Analytica Chimica Acta, 2002, 463, 125-134.	5.4	33
2	Determination of beta emitters (90Sr, 14C and 3H) in routine measurements using plastic scintillation beads. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 516, 602-609.	1.6	30
3	Radiostrontium separation and measurement in a single step using plastic scintillators plus selective extractants. Application to aqueous sample analysis. Analytica Chimica Acta, 2011, 686, 50-56.	5.4	30
4	Comparative study of quenching correction procedures for / determination by Cerenkov, liquid scintillation and plastic scintillation techniques. Analytica Chimica Acta, 2002, 471, 135-143.	5.4	28
5	Synthesis of plastic scintillation microspheres: Evaluation of scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 698, 106-116.	1.6	27
6	Analysis of 210Pb in water samples with plastic scintillation resins. Analytica Chimica Acta, 2016, 940, 38-45.	5.4	24
7	Plastic scintillators and related analytical procedures for radionuclide analysis. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 555-572.	1.5	22
8	Systematic study of particle quenching in organic scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 698, 26-36.	1.6	21
9	Plastic vs. Liquid Scintillation for 14C radiotracers determination in high salt matrices. Analytica Chimica Acta, 2009, 631, 229-236.	5.4	19
10	A new plastic scintillation resin for single-step separation, concentration and measurement of technetium-99. Analytica Chimica Acta, 2016, 936, 259-266.	5.4	19
11	Reusability of plastic scintillators used in beta emitter activity determination. Applied Radiation and Isotopes, 2003, 59, 373-376.	1.5	18
12	Rapid method for radiostrontium determination in milk in emergency situations using PS resin. Journal of Radioanalytical and Nuclear Chemistry, 2018, 315, 543-555.	1.5	18
13	Development of a radiochemical sensor, Part 2: Application to liquid effluents. Analytica Chimica Acta, 2005, 538, 241-249.	5.4	17
14	Determination of oil reservoir radiotracer (S14CNâ¯) in a single step using a plastic scintillator extractive resin. Analytica Chimica Acta, 2012, 736, 30-35.	5.4	16
15	Combination of chemical separation and data treatment for 55Fe, 63Ni, 99Tc, 137Cs and 90Sr/90Y activity determination in radioactive waste by liquid scintillation. Applied Radiation and Isotopes, 2005, 63, 207-215.	1.5	14
16	Synthesis of plastic scintillation microspheres: Alpha/beta discrimination. Applied Radiation and Isotopes, 2014, 93, 18-28.	1.5	14
17	Crosslinked plastic scintillators: A new detection system for radioactivity measurement in organic and aggressive media. Analytica Chimica Acta, 2014, 852, 13-19.	5.4	14
18	Alpha/beta pulse shape discrimination in plastic scintillation using commercial scintillation detectors. Analytica Chimica Acta, 2010, 670, 11-17.	5.4	13

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19	Polystyrene based sub-micron scintillating particles produced by supercritical anti-solvent precipitation. Journal of Supercritical Fluids, 2015, 103, 18-27.	3.2	13
20	Application of a free parameter model to plastic scintillation samples. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, 124-131.	1.6	12
21	Pilot Study of the Application of Plastic Scintillation Microspheres to Rn-222 Detection and Measurement. IEEE Transactions on Nuclear Science, 2016, 63, 1209-1217.	2.0	10
22	Liquid scintillation analysis: principles and practice. , 2020, , 575-801.		10
23	First approach to radionuclide mixtures quantification by using plastic scintillators. Analytica Chimica Acta, 2007, 590, 232-238.	5.4	9
24	Mixture quantification using PLS in plastic scintillation measurements. Applied Radiation and Isotopes, 2011, 69, 898-903.	1.5	8
25	Influence of preparation parameters on the synthesis of plastic scintillation microspheres and evaluation of sample preparation. Advanced Powder Technology, 2016, 27, 1309-1317.	4.1	8
26	Classical vs. evolved quenching parameters and procedures in scintillation measurements: The importance of ionization quenching. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 592, 361-368.	1.6	7
27	Rapid methods for radiostrontium determination in aerosol filters and vegetation in emergency situations using PS resin. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1397-1408.	1.5	6
28	Development of a radiochemical sensor. Part I: Feasibility study. Analytica Chimica Acta, 2005, 538, 233-239.	5.4	5
29	Automated separation of 99Tc using plastic scintillation resin PSresin and openview automated modular separation system (OPENVIEW-AMSS). Journal of Radioanalytical and Nuclear Chemistry, 2019, 321, 1057-1065.	1.5	5
30	Evaluation of synthesis conditions for plastic scintillation foils used to measure alpha- and beta-emitting radionuclides. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 135-145.	1.5	5
31	PSresin for the analysis of alpha-emitting radionuclides: Comparison of diphosphonic acid-based extractants. Applied Radiation and Isotopes, 2021, 178, 109969.	1.5	5
32	Application of the CIEMATâ€“NIST method to plastic scintillation microspheres. Applied Radiation and Isotopes, 2015, 98, 13-22.	1.5	4
33	Synthesis and characterisation of scintillating microspheres made of polystyrene/polycarbonate for 222Rn measurements. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 637-649.	1.5	4
34	Evaluation of a reflective coating for an organic scintillation detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 674, 92-98.	1.6	3
35	Robustness of plastic scintillation microspheres in the continuous measurement of different river waters. Applied Radiation and Isotopes, 2016, 114, 145-153.	1.5	3
36	Alpha/beta indices determination in drinking water using plastic scintillation and evaporation to dryness. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 533-542.	1.5	2

#	Article	IF	Citations
37	Production of polystyrene-based scintillation microspheres for the measurement of radioactivity by spray-drying. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 789-799.	1.5	2
38	Development and evaluation of a plastic scintillating resin for radioactive tin determination. Journal of Radioanalytical and Nuclear Chemistry, 2019, 321, 207-215.	1.5	2
39	Analysis of isotopes of plutonium in water samples with a PSresin based on aliquatÂ·336. Applied Radiation and Isotopes, 2022, 187, 110333.	1.5	2
40	Comparative study of pre-treatment procedures for 3H monitoring in water samples from environmental protection programs. Science of the Total Environment, 2010, 408, 2233-2238.	8.0	1
41	Liquid scintillation spectrometry: A technique with future. Applied Radiation and Isotopes, 2014, 93, 1-6.	1.5	0
42	Active teaching strategies for introducing radioanalytical techniques in analytical chemistry master degree: 40K determination in Bananas. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1905-1914.	1.5	0
43	Plastic Scintillators in Environmental Analysis. Topics in Applied Physics, 2021, , 461-508.	0.8	0
44	Development of an equipment for real-time continuous monitoring of alpha and beta radioactivity in river water. Applied Radiation and Isotopes, 2022, 187, 110322.	1.5	0