

# Alex Tarancón

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7395691/publications.pdf>

Version: 2024-02-01

44  
papers

503  
citations

623188

14  
h-index

713013

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. <i>Analytica Chimica Acta</i> , 2002, 463, 125-134.	2.6	33
2	Determination of beta emitters ( $^{90}\text{Sr}$ , $^{14}\text{C}$ and $^3\text{H}$ ) in routine measurements using plastic scintillation beads. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 516, 602-609.	0.7	30
3	Radiostrontium separation and measurement in a single step using plastic scintillators plus selective extractants. Application to aqueous sample analysis. <i>Analytica Chimica Acta</i> , 2011, 686, 50-56.	2.6	30
4	Comparative study of quenching correction procedures for $\beta$ determination by Cerenkov, liquid scintillation and plastic scintillation techniques. <i>Analytica Chimica Acta</i> , 2002, 471, 135-143.	2.6	28
5	Synthesis of plastic scintillation microspheres: Evaluation of scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 698, 106-116.	0.7	27
6	Analysis of $^{210}\text{Pb}$ in water samples with plastic scintillation resins. <i>Analytica Chimica Acta</i> , 2016, 940, 38-45.	2.6	24
7	Plastic scintillators and related analytical procedures for radionuclide analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 555-572.	0.7	22
8	Systematic study of particle quenching in organic scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 698, 26-36.	0.7	21
9	Plastic vs. Liquid Scintillation for $^{14}\text{C}$ radiotracers determination in high salt matrices. <i>Analytica Chimica Acta</i> , 2009, 631, 229-236.	2.6	19
10	A new plastic scintillation resin for single-step separation, concentration and measurement of technetium-99. <i>Analytica Chimica Acta</i> , 2016, 936, 259-266.	2.6	19
11	Reusability of plastic scintillators used in beta emitter activity determination. <i>Applied Radiation and Isotopes</i> , 2003, 59, 373-376.	0.7	18
12	Rapid method for radiostrontium determination in milk in emergency situations using PS resin. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 543-555.	0.7	18
13	Development of a radiochemical sensor, Part 2: Application to liquid effluents. <i>Analytica Chimica Acta</i> , 2005, 538, 241-249.	2.6	17
14	Determination of oil reservoir radiotracer ( $^{14}\text{C}$ ) in a single step using a plastic scintillator extractive resin. <i>Analytica Chimica Acta</i> , 2012, 736, 30-35.	2.6	16
15	Combination of chemical separation and data treatment for $^{55}\text{Fe}$ , $^{63}\text{Ni}$ , $^{99}\text{Tc}$ , $^{137}\text{Cs}$ and $^{90}\text{Sr}/^{90}\text{Y}$ activity determination in radioactive waste by liquid scintillation. <i>Applied Radiation and Isotopes</i> , 2005, 63, 207-215.	0.7	14
16	Synthesis of plastic scintillation microspheres: Alpha/beta discrimination. <i>Applied Radiation and Isotopes</i> , 2014, 93, 18-28.	0.7	14
17	Crosslinked plastic scintillators: A new detection system for radioactivity measurement in organic and aggressive media. <i>Analytica Chimica Acta</i> , 2014, 852, 13-19.	2.6	14
18	Alpha/beta pulse shape discrimination in plastic scintillation using commercial scintillation detectors. <i>Analytica Chimica Acta</i> , 2010, 670, 11-17.	2.6	13

#	ARTICLE	IF	CITATIONS
19	Polystyrene based sub-micron scintillating particles produced by supercritical anti-solvent precipitation. <i>Journal of Supercritical Fluids</i> , 2015, 103, 18-27.	1.6	13
20	Application of a free parameter model to plastic scintillation samples. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 648, 124-131.	0.7	12
21	Pilot Study of the Application of Plastic Scintillation Microspheres to Rn-222 Detection and Measurement. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 1209-1217.	1.2	10
22	Liquid scintillation analysis: principles and practice. , 2020, , 575-801.		10
23	First approach to radionuclide mixtures quantification by using plastic scintillators. <i>Analytica Chimica Acta</i> , 2007, 590, 232-238.	2.6	9
24	Mixture quantification using PLS in plastic scintillation measurements. <i>Applied Radiation and Isotopes</i> , 2011, 69, 898-903.	0.7	8
25	Influence of preparation parameters on the synthesis of plastic scintillation microspheres and evaluation of sample preparation. <i>Advanced Powder Technology</i> , 2016, 27, 1309-1317.	2.0	8
26	Classical vs. evolved quenching parameters and procedures in scintillation measurements: The importance of ionization quenching. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 592, 361-368.	0.7	7
27	Rapid methods for radiostrontium determination in aerosol filters and vegetation in emergency situations using PS resin. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 1397-1408.	0.7	6
28	Development of a radiochemical sensor. Part I: Feasibility study. <i>Analytica Chimica Acta</i> , 2005, 538, 233-239.	2.6	5
29	Automated separation of <sup>99</sup> Tc using plastic scintillation resin PSresin and openview automated modular separation system (OPENVIEW-AMSS). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 321, 1057-1065.	0.7	5
30	Evaluation of synthesis conditions for plastic scintillation foils used to measure alpha- and beta-emitting radionuclides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 319, 135-145.	0.7	5
31	PSresin for the analysis of alpha-emitting radionuclides: Comparison of diphosphonic acid-based extractants. <i>Applied Radiation and Isotopes</i> , 2021, 178, 109969.	0.7	5
32	Application of the CIEMAT's NIST method to plastic scintillation microspheres. <i>Applied Radiation and Isotopes</i> , 2015, 98, 13-22.	0.7	4
33	Synthesis and characterisation of scintillating microspheres made of polystyrene/polycarbonate for <sup>222</sup> Rn measurements. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 637-649.	0.7	4
34	Evaluation of a reflective coating for an organic scintillation detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 674, 92-98.	0.7	3
35	Robustness of plastic scintillation microspheres in the continuous measurement of different river waters. <i>Applied Radiation and Isotopes</i> , 2016, 114, 145-153.	0.7	3
36	Alpha/beta indices determination in drinking water using plastic scintillation and evaporation to dryness. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 533-542.	0.7	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.	0.7	2
38	Development and evaluation of a plastic scintillating resin for radioactive tin determination. Journal of Radioanalytical and Nuclear Chemistry, 2019, 321, 207-215.	0.7	2
39	Analysis of isotopes of plutonium in water samples with a PSresin based on aliquat <sup>®</sup> 336. Applied Radiation and Isotopes, 2022, 187, 110333.	0.7	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.	3.9	1
41	Liquid scintillation spectrometry: A technique with future. Applied Radiation and Isotopes, 2014, 93, 1-6.	0.7	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.	0.7	0
43	Plastic Scintillators in Environmental Analysis. Topics in Applied Physics, 2021, , 461-508.	0.4	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.	0.7	0