

Maria Villa-Alfageme

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,221
citations

361296

20
h-index

395590

33
g-index

53
all docs

53
docs citations

53
times ranked

1651
citing authors

#	ARTICLE	IF	CITATIONS
1	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	1.4	257
2	The oceans' twilight zone must be studied now, before it is too late. <i>Nature</i> , 2020, 580, 26-28.	13.7	73
3	Contamination and restoration of an estuary affected by phosphogypsum releases. <i>Science of the Total Environment</i> , 2009, 408, 69-77.	3.9	52
4	Export of organic carbon and biominerals derived from ²³⁴ Th and ²¹⁰ Po at the Porcupine Abyssal Plain. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 72, 88-101.	0.6	45
5	Radioactivity contents in dicalcium phosphate and the potential radiological risk to human populations. <i>Journal of Hazardous Materials</i> , 2009, 170, 814-823.	6.5	42
6	On the proportion of ballast versus non-ballast associated carbon export in the surface ocean. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	39
7	Geographical, seasonal, and depth variation in sinking particle speeds in the North Atlantic. <i>Geophysical Research Letters</i> , 2016, 43, 8609-8616.	1.5	38
8	Uranium pollution in an estuary affected by pyrite acid mine drainage and releases of naturally occurring radioactive materials. <i>Marine Pollution Bulletin</i> , 2011, 62, 1521-1529.	2.3	35
9	Low-level measurements of tritium in water. <i>Applied Radiation and Isotopes</i> , 2004, 61, 319-323.	0.7	33
10	Study of colour quenching effects in the calibration of liquid scintillation counters: the case of ²¹⁰ Pb. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 496, 413-424.	0.7	31
11	Determination of ²²⁶ Ra and ²²⁴ Ra in sediments samples by liquid scintillation counting. <i>Radiation Measurements</i> , 2005, 39, 543-550.	0.7	30
12	Observations and modeling of slowly sinking particles in the twilight zone. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1327-1342.	1.9	30
13	Calibration and measurement of using two independent techniques. <i>Radiation Measurements</i> , 2007, 42, 1552-1560.	0.7	27
14	Analysis of ²³⁶ U and plutonium isotopes, ^{239,240} Pu, on the 1 MV AMS system at the Centro Nacional de Aceleradores, as a potential tool in oceanography. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 535-540.	0.6	26
15	Comparison of solvent extraction and extraction chromatography resin techniques for uranium isotopic characterization in high-level radioactive waste and barrier materials. <i>Applied Radiation and Isotopes</i> , 2018, 137, 177-183.	0.7	26
16	Influence of bloom dynamics on Particle Export Efficiency in the North Atlantic: a comparative study of radioanalytical techniques and sediment traps. <i>Marine Chemistry</i> , 2016, 186, 198-210.	0.9	24
17	Self-cleaning in an estuarine area formerly affected by ²²⁶ Ra anthropogenic enhancements. <i>Science of the Total Environment</i> , 2004, 329, 183-195.	3.9	23
18	Self-cleaning in an estuarine area formerly affected by ²²⁶ Ra anthropogenic enhancements: numerical simulations. <i>Science of the Total Environment</i> , 2005, 339, 207-218.	3.9	23

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19	Radionuclide activities and metal concentrations in sediments of the Sebou Estuary, NW Morocco, following a flooding event. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 5019-5029.	1.3	23
20	Evaluation of different parameters affecting the liquid scintillation spectrometry measurement of gross alpha and beta index in water samples. <i>Applied Radiation and Isotopes</i> , 2011, 69, 1274-1281.	0.7	21
21	Colour quenching corrections on the measurement of ⁹⁰ Sr through Cerenkov counting. <i>Analytica Chimica Acta</i> , 2007, 604, 184-190.	2.6	19
22	Sequestration efficiency in the iron-limited North Atlantic: Implications for iron supply mode to fertilized blooms. <i>Geophysical Research Letters</i> , 2014, 41, 4619-4627.	1.5	19
23	An intercomparison of Monte Carlo codes used for in-situ gamma-ray spectrometry. <i>Radiation Measurements</i> , 2010, 45, 923-927.	0.7	18
24	The behaviour of ¹²⁹ I released from nuclear fuel reprocessing factories in the North Atlantic Ocean and transport to the Arctic assessed from numerical modelling. <i>Marine Pollution Bulletin</i> , 2015, 90, 15-24.	2.3	18
25	Rapid determination of ²¹⁰ Pb and ²¹⁰ Po in water and application to marine samples. <i>Talanta</i> , 2016, 160, 28-35.	2.9	18
26	Isolation of ²³⁶ U and ^{239,240} Pu from seawater samples and its determination by Accelerator Mass Spectrometry. <i>Talanta</i> , 2018, 178, 202-210.	2.9	18
27	Determination of trace element concentrations and stable lead, uranium and thorium isotope ratios by quadrupole-ICP-MS in NORM and NORM-polluted sample leachates. <i>Journal of Hazardous Materials</i> , 2012, 205-206, 198-207.	6.5	17
28	Arctic Observations Identify Phytoplankton Community Composition as Driver of Carbon Flux Attenuation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087465.	1.5	17
29	A sequential determination of ⁹⁰ Sr and ²¹⁰ Po in food samples. <i>Food Chemistry</i> , 2017, 229, 159-164.	4.2	15
30	Distribution of ²³⁶ U in the U.S. GEOTRACES Eastern Pacific Zonal Transect and its use as a water mass tracer. <i>Chemical Geology</i> , 2019, 517, 44-57.	1.4	15
31	Numerical analysis of alpha spectra using two different codes. <i>Applied Radiation and Isotopes</i> , 2008, 66, 808-812.	0.7	14
32	Natural and artificial radionuclides in a marine core. First results of ²³⁶ U in North Atlantic Ocean sediments. <i>Journal of Environmental Radioactivity</i> , 2018, 186, 152-160.	0.9	14
33	Quantification and comparison of the reaction properties of FEBEX and MX-80 clays with saponite: Europium immobilisers under subcritical conditions. <i>Applied Clay Science</i> , 2014, 101, 10-15.	2.6	13
34	A self-sufficient and general method for self-absorption correction in gamma-ray spectrometry using GEANT4. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 234-237.	0.7	12
35	AMS measurements of ¹²⁹ I in seawater around Iceland and the Irminger Sea. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 547-551.	0.6	11
36	Interaction of Eu-isotopes with saponite as a component of the engineered barrier. <i>Applied Clay Science</i> , 2011, 52, 253-257.	2.6	9

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37	The behaviour of ²³⁶ U in the North Atlantic Ocean assessed from numerical modelling: A new evaluation of the input function into the Arctic. <i>Science of the Total Environment</i> , 2018, 626, 255-263.	3.9	9
38	Revisiting five decades of ²³⁴ Th data: a comprehensive global oceanic compilation. <i>Earth System Science Data</i> , 2022, 14, 2639-2679.	3.7	9
39	Uranium immobilization by FEBEX bentonite and steel barriers in hydrothermal conditions. <i>Chemical Engineering Journal</i> , 2015, 269, 279-287.	6.6	8
40	²³⁴ Th Derived Particle Fluxes and Seasonal Variability: When Is the SS Assumption Reliable? Insights From a Novel Approach for Carbon Flux Simulation. <i>Geophysical Research Letters</i> , 2018, 45, 13,414.	1.5	8
41	Competitive effect of the metallic canister and clay barrier on the sorption of Eu ³⁺ under subcritical conditions. <i>Applied Geochemistry</i> , 2014, 40, 25-31.	1.4	7
42	Recent evolution of ¹²⁹ I levels in the Nordic Seas and the North Atlantic Ocean. <i>Science of the Total Environment</i> , 2018, 621, 376-386.	3.9	7
43	A microscopic simulation of particle flux in ocean waters: Application to radioactive pair disequilibrium. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 136-158.	1.6	7
44	Comparison and validation of methods for the determination of ⁹⁰ Sr by Cerenkov counting in biological and sediment samples, including green chemistry metrics. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 109-122.	0.7	6
45	Analysis of a major Aeolian dust input event and its impact on element fluxes and inventories at the DYFAMED site (Northwestern Mediterranean). <i>Marine Chemistry</i> , 2020, 223, 103792.	0.9	6
46	Effect of clays and metal containers in retaining Sm ³⁺ and ZrO ₂ ⁺ and the process of reversibility. <i>American Mineralogist</i> , 2014, 99, 696-703.	0.9	4
47	Modeling of ²²⁶ Ra behavior in a Spanish estuary affected by the phosphate industry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007, 274, 293-299.	0.7	2
48	Time Evolution of Activity Concentration of Natural Emitters in a Scenario Affected By Previous Phosphogypsum Contamination. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	2
49	Correlation of phytoplankton satellite observations and radiological doses in molluscs. <i>Marine Pollution Bulletin</i> , 2021, 172, 112911.	2.3	1
50	Measurement of [²¹⁰ Pb] and its Application to Evaluate Contamination in an Area Affected by NORM Releases. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
51	Geochronology of recent sediments from the Cariaco Trench (Venezuela) by Alpha Spectrometry of [²¹⁰ Pb] ([²¹⁰ Po]).. , 2010, , .		0