Maria Villa-Alfageme

List of Publications by Year
in descending order

51 papers	1,221 citations	361413 20 h-index	395702 33 g-index
53 all docs	53 docs citations	53 times ranked	1651 citing authors

#	Article	IF	Citations
1	Revisiting five decades of ²³⁴Th data: a comprehensive global oceanic compilation. Earth System Science Data, 2022, 14, 2639-2679.	9.9	9
2	Correlation of phytoplankton satellite observations and radiological doses in molluscs. Marine Pollution Bulletin, 2021, 172, 112911.	5.0	1
3	Analysis of a major Aeolian dust input event and its impact on element fluxes and inventories at the DYFAMED site (Northwestern Mediterranean). Marine Chemistry, 2020, 223, 103792.	2.3	6
4	Arctic Observations Identify Phytoplankton Community Composition as Driver of Carbon Flux Attenuation. Geophysical Research Letters, 2020, 47, e2020GL087465.	4.0	17
5	The oceansâ€™ twilight zone must be studied now, before it is too late. Nature, 2020, 580, 26-28.	27.8	73
6	Comparison and validation of methods for the determination of 90Sr by Cerenkov counting in biological and sediment samples, including green chemistry metrics. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 109-122.	1.5	6
7	Distribution of 236U in the U.S. GEOTRACES Eastern Pacific Zonal Transect and its use as a water mass tracer. Chemical Geology, 2019, 517, 44-57.	3.3	15
8	Comparison of solvent extraction and extraction chromatography resin techniques for uranium isotopic characterization in high-level radioactive waste and barrier materials. Applied Radiation and Isotopes, 2018, 137, 177-183.	1.5	26
9	Recent evolution of 129I levels in the Nordic Seas and the North Atlantic Ocean. Science of the Total Environment, 2018, 621, 376-386.	8.0	7
10	The behaviour of 236U in the North Atlantic Ocean assessed from numerical modelling: A new evaluation of the input function into the Arctic. Science of the Total Environment, 2018, 626, 255-263.	8.0	9
11	Natural and artificial radionuclides in a marine core. First results of 236 U in North Atlantic Ocean sediments. Journal of Environmental Radioactivity, 2018, 186, 152-160.	1.7	14
12	Isolation of 236U and 239,240Pu from seawater samples and its determination by Accelerator Mass Spectrometry. Talanta, 2018, 178, 202-210.	5.5	18
13	<scp>²³⁴Th</scp>â€Derived Particle Fluxes and Seasonal Variability: When Is the SS Assumption Reliable? Insights From a Novel Approach for Carbon Flux Simulation. Geophysical Research Letters, 2018, 45, 13,414.	4.0	8
14	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
15	A microscopic simulation of particle flux in ocean waters: Application to radioactive pair disequilibrium. Geochimica Et Cosmochimica Acta, 2018, 239, 136-158.	3.9	7
16	A sequential determination of 90Sr and 210Po in food samples. Food Chemistry, 2017, 229, 159-164.	8.2	15
17	Rapid determination of 210 Pb and 210 Po in water and application to marine samples. Talanta, 2016, 160, 28-35.	5.5	18
18	Geographical, seasonal, and depth variation in sinking particle speeds in the North Atlantic. Geophysical Research Letters, 2016, 43, 8609-8616.	4.0	38

#	Article	IF	Citations
19	Influence of bloom dynamics on Particle Export Efficiency in the North Atlantic: a comparative study of radioanalytical techniques and sediment traps. Marine Chemistry, 2016, 186, 198-210.	2.3	24
20	The behaviour of 129I released from nuclear fuel reprocessing factories in the North Atlantic Ocean and transport to the Arctic assessed from numerical modelling. Marine Pollution Bulletin, 2015, 90, 15-24.	5.0	18
21	Uranium immobilization by FEBEX bentonite and steel barriers in hydrothermal conditions. Chemical Engineering Journal, 2015, 269, 279-287.	12.7	8
22	Analysis of 236U and plutonium isotopes, 239,240Pu, on the 1 MV AMS system at the Centro Nacional de Aceleradores, as a potential tool in oceanography. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 535-540.	1.4	26
23	Effect of clays and metal containers in retaining Sm3+ and ZrO2+ and the process of reversibility. American Mineralogist, 2014, 99, 696-703.	1.9	4
24	Quantification and comparison of the reaction properties of FEBEX and MX-80 clays with saponite: Europium immobilisers under subcritical conditions. Applied Clay Science, 2014, 101, 10-15.	5.2	13
25	Sequestration efficiency in the ironâ€limited North Atlantic: Implications for iron supply mode to fertilized blooms. Geophysical Research Letters, 2014, 41, 4619-4627.	4.0	19
26	Competitive effect of the metallic canister and clay barrier on the sorption of Eu3+ under subcritical conditions. Applied Geochemistry, 2014, 40, 25-31.	3.0	7
27	Observations and modeling of slowâ€sinking particles in the twilight zone. Global Biogeochemical Cycles, 2014, 28, 1327-1342.	4.9	30
28	Radionuclide activities and metal concentrations in sediments of the Sebou Estuary, NW Morocco, following a flooding event. Environmental Monitoring and Assessment, 2013, 185, 5019-5029.	2.7	23
29	Export of organic carbon and biominerals derived from 234Th and 210Po at the Porcupine Abyssal Plain. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 72, 88-101.	1.4	45
30	AMS measurements of 129I in seawater around Iceland and the Irminger Sea. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 547-551.	1.4	11
31	On the proportion of ballast versus nonâ€ballast associated carbon export in the surface ocean. Geophysical Research Letters, 2012, 39, .	4.0	39
32	Determination of trace element concentrations and stable lead, uranium and thorium isotope ratios by quadrupole-ICP-MS in NORM and NORM-polluted sample leachates. Journal of Hazardous Materials, 2012, 205-206, 198-207.	12.4	17
33	Interaction of Eu-isotopes with saponite as a component of the engineered barrier. Applied Clay Science, 2011, 52, 253-257.	5.2	9
34	Uranium pollution in an estuary affected by pyrite acid mine drainage and releases of naturally occurring radioactive materials. Marine Pollution Bulletin, 2011, 62, 1521-1529.	5.0	35
35	Evaluation of different parameters affecting the liquid scintillation spectrometry measurement of gross alpha and beta index in water samples. Applied Radiation and Isotopes, 2011, 69, 1274-1281.	1.5	21
36	An intercomparison of Monte Carlo codes used for in-situ gamma-ray spectrometry. Radiation Measurements, 2010, 45, 923-927.	1.4	18

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37	Geochronology of recent sediments from the Cariaco Trench (Venezuela) by Alpha Spectrometry of [sup 210]Pb ([sup 210]Po).. , 2010, , .		0
38	Contamination and restoration of an estuary affected by phosphogypsum releases. Science of the Total Environment, 2009, 408, 69-77.	8.0	52
39	Radioactivity contents in dicalcium phosphate and the potential radiological risk to human populations. Journal of Hazardous Materials, 2009, 170, 814-823.	12.4	42
40	Numerical analysis of alpha spectra using two different codes. Applied Radiation and Isotopes, 2008, 66, 808-812.	1.5	14
41	Measurement of [sup 210]Pb and its Application to Evaluate Contamination in an Area Affected by NORM Releases. AIP Conference Proceedings, 2008, , .	0.4	0
42	Time Evolution of Activity Concentration of Natural Emitters in a Scenario Affected By Previous Phosphogypsum Contamination. AIP Conference Proceedings, 2008, , .	0.4	2
43	Colour quenching corrections on the measurement of 90Sr through Cerenkov counting. Analytica Chimica Acta, 2007, 604, 184-190.	5.4	19
44	A self-sufficient and general method for self-absorption correction in gamma-ray spectrometry using GEANT4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 234-237.	1.6	12
45	Modeling of 226Ra behavior in a Spanish estuary affected by the phosphate industry. Journal of Radioanalytical and Nuclear Chemistry, 2007, 274, 293-299.	1.5	2
46	Calibration and measurement of using two independent techniques. Radiation Measurements, 2007, 42, 1552-1560.	1.4	27
47	Determination of 226Ra and 224Ra in sediments samples by liquid scintillation counting. Radiation Measurements, 2005, 39, 543-550.	1.4	30
48	Self-cleaning in an estuarine area formerly affected by 226Ra anthropogenic enhancements: numerical simulations. Science of the Total Environment, 2005, 339, 207-218.	8.0	23
49	Self-cleaning in an estuarine area formerly affected by 226Ra anthropogenic enhancements. Science of the Total Environment, 2004, 329, 183-195.	8.0	23
50	Low-level measurements of tritium in water. Applied Radiation and Isotopes, 2004, 61, 319-323.	1.5	33
51	Study of colour quenching effects in the calibration of liquid scintillation counters: the case of 210Pb. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 496, 413-424.	1.6	31