

Silvia Fdez-Ortiz De Vallejuelo

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,335
citations

331670

21
h-index

361022

35
g-index

52
all docs

52
docs citations

52
times ranked

1645
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of environmental pollution and mineralogical characterization of sediment rivers from Brazilian coal mining acid drainage. <i>Science of the Total Environment</i> , 2013, 447, 169-178.	8.0	123
2	Fate of hazardous elements in agricultural soils surrounding a coal power plant complex from Santa Catarina (Brazil). <i>Science of the Total Environment</i> , 2015, 508, 374-382.	8.0	91
3	Use of Reflectance Infrared Spectroscopy for Monitoring the Metal Content of the Estuarine Sediments of the Nerbioi-Ibaizabal River (Metropolitan Bilbao, Bay of Biscay, Basque Country). <i>Environmental Science & Technology</i> , 2009, 43, 9314-9320.	10.0	80
4	Nanominerals and potentially hazardous elements from coal cleaning rejects of abandoned mines: Environmental impact and risk assessment. <i>Chemosphere</i> , 2017, 169, 725-733.	8.2	68
5	Risk assessment of trace elements in sediments: The case of the estuary of the Nerbioi-Ibaizabal River (Basque Country). <i>Journal of Hazardous Materials</i> , 2010, 181, 565-573.	12.4	64
6	Evidence of mercury sequestration by carbon nanotubes and nanominerals present in agricultural soils from a coal fired power plant exhaust. <i>Journal of Hazardous Materials</i> , 2019, 378, 120747.	12.4	57
7	The mobilization of hazardous elements after a tropical storm event in a polluted estuary. <i>Science of the Total Environment</i> , 2016, 565, 721-729.	8.0	56
8	In situ analysis with portable Raman and ED-XRF spectrometers for the diagnosis of the formation of efflorescence on walls and wall paintings of the Insula IX 3 (Pompeii, Italy). <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1059-1067.	2.5	55
9	Spectroscopic characterisation of crusts interstratified with prehistoric paintings preserved in open-air rock art shelters. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1236-1243.	2.5	46
10	Ultrasound energy focused in a glass probe: An approach to the simultaneous and fast extraction of trace elements from sediments. <i>Talanta</i> , 2009, 80, 434-439.	5.5	44
11	In situ characterization by Raman and X-ray fluorescence spectroscopy of post-Paleolithic blackish pictographs exposed to the open air in Los Chaparros shelter (Albalate del Arzobispo, Teruel, Spain). <i>Analytical Methods</i> , 2014, 6, 6641.	2.7	43
12	Are children playgrounds safe play areas? Inorganic analysis and lead isotope ratios for contamination assessment in recreational (Brazilian) parks. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24333-24345.	5.3	40
13	Evaluating the role of particle size on urban environmental geochemistry of metals in surface sediments. <i>Science of the Total Environment</i> , 2019, 646, 121-133.	8.0	37
14	In situ non-invasive characterization of the composition of Pompeian pigments preserved in their original bowls. <i>Microchemical Journal</i> , 2018, 139, 458-466.	4.5	31
15	Methodology to assess the mobility of trace elements between water and contaminated estuarine sediments as a function of the site physico-chemical characteristics. <i>Science of the Total Environment</i> , 2014, 473-474, 359-371.	8.0	29
16	In situ X-ray fluorescence-based method to differentiate among red ochre pigments and yellow ochre pigments thermally transformed to red pigments of wall paintings from Pompeii. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3853-3860.	3.7	29
17	Partial least squares X-ray fluorescence determination of trace elements in sediments from the estuary of Nerbioi-Ibaizabal River. <i>Talanta</i> , 2010, 82, 1254-1260.	5.5	27
18	Study of the soluble salts formation in a recently restored house of Pompeii by in-situ Raman spectroscopy. <i>Scientific Reports</i> , 2018, 8, 1613.	3.3	27

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19	Biodeterioration of Pompeian mural paintings: fungal colonization favoured by the presence of volcanic material residues. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19599-19608.	5.3	25
20	The Raman spectra of the Na ₂ SO ₄ ·K ₂ SO ₄ system: Applicability to soluble salts studies in built heritage. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 175-183.	2.5	24
21	Multispectroscopic and Isotopic Ratio Analysis To Characterize the Inorganic Binder Used on Pompeian Pink and Purple Lake Pigments. <i>Analytical Chemistry</i> , 2016, 88, 6395-6402.	6.5	23
22	From Portable to SCA Raman devices to characterize harmful compounds contained in used black slag produced in Electric Arc Furnace of steel industry. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1163-1171.	2.5	22
23	Identification of hot spots within harbour sediments through a new cumulative hazard index. Case study: Port of Bari, Italy. <i>Ecological Indicators</i> , 2016, 60, 548-556.	6.3	22
24	Characterization of atmospheric aerosols in the Antarctic region using Raman Spectroscopy and Scanning Electron Microscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 266, 120452.	3.9	19
25	Analysis of confiscated fireworks using Raman spectroscopy assisted with SEM-EDS and FTIR. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 2000-2005.	2.5	16
26	Spatial distribution of some trace and major elements in sediments of the Cvado estuary (Esposende,) Tj ETQq0 0,0 rgBT /Overlock 10	3.0	16
27	Pattern recognition and classification of sediments according to their metal content using chemometric tools. A case study: The estuary of Nerbioi-Ibaizabal River (Bilbao, Basque Country). <i>Chemosphere</i> , 2011, 85, 1347-1352.	8.2	15
28	Multispectroscopic methodology to study Libyan desert glass and its formation conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3597-3610.	3.7	15
29	Long-term monitoring of metal pollution in sediments from the estuary of the Nerbioi-Ibaizabal River (2005-2010). <i>Estuarine, Coastal and Shelf Science</i> , 2013, 131, 129-139.	2.1	14
30	Portable laser induced breakdown spectrometry to characterize the environmental impact of potentially hazardous elements of suspended particulate matter transported during a storm event in an urban river catchment. <i>Microchemical Journal</i> , 2017, 135, 171-179.	4.5	14
31	Raman microscopy as a tool to discriminate mineral phases of volcanic origin and contaminations on red and yellow ochre raw pigments from Pompeii. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 143-149.	2.5	13
32	Long term monitoring of metal pollution in sediments as a tool to investigate the effects of engineering works in estuaries. A case study, the Nerbioi-Ibaizabal estuary (Bilbao, Basque Country). <i>Marine Pollution Bulletin</i> , 2019, 145, 555-563.	5.0	12
33	Comparison between non-invasive methods used on paintings by Goya and his contemporaries: hyperspectral imaging vs. point-by-point spectroscopic analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4047-4056.	3.7	11
34	The combination of Raman imaging and LIBS for quantification of original and degradation materials in Cultural Heritage. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 193-201.	2.5	11
35	Finnish wallpaper pigments in the 18th-19th century: Presence of KFe ₃ (CrO ₄) ₂ (OH) ₆ and odd pigment mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 106, 104-109.	3.9	10
36	Combination of in situ spectroscopy and chemometric techniques to discriminate different types of Roman bricks and the influence of microclimate environment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 6285-6299.	5.3	10

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37	Long-term in situ non-invasive spectroscopic monitoring of weathering processes in open-air prehistoric rock art sites. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8155-8166.	3.7	10
38	Understanding the degradation of the blue colour in the wall paintings of Ariadne's house (Pompeii). <i>Talanta</i> , 2021, 218, 106000.	2.5	9
39	Chemometrics and elemental mapping by portable LIBS to identify the impact of volcanogenic and non-volcanogenic degradation sources on the mural paintings of Pompeii. <i>Analytica Chimica Acta</i> , 2021, 1168, 338565.	5.4	9
40	When Red Turns Black: Influence of the 79 AD Volcanic Eruption and Burial Environment on the Blackening/Darkening of Pompeian Cinnabar. <i>Analytical Chemistry</i> , 2021, 93, 15870-15877.	6.5	9
41	Are these liquids explosive? Forensic analysis of confiscated indoor fireworks. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3065-3071.	3.7	8
42	Contamination study of forest track soils located in a recreational area and filled with steel industry waste 30 years ago. <i>Science of the Total Environment</i> , 2017, 598, 28-37.	8.0	8
43	New Findings by Raman Microspectroscopy in the Bulk and Inclusions Trapped in Libyan Desert Glass. <i>Spectroscopy Letters</i> , 2011, 44, 521-525.	1.0	7
44	Non-destructive characterisation of the Elephant Moraine 83227 meteorite using confocal Raman, micro-energy-dispersive X-ray fluorescence and Raman-scanning electron microscope-energy-dispersive X-ray microscopies. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7477-7488.	3.7	7
45	New Raman "visible near-infrared database of inorganic and mineralogical planetary and terrestrial compounds and its implications for Mars: Phyllosilicates. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1750-1760.	2.5	7
46	Study of corrosion in archaeological gilded irons by Raman imaging and a coupled scanning electron microscope "Raman system. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160046.	3.4	6
47	Metallurgical residues reused as filler after 35 years and their natural weathering implications in a mountain area. <i>Science of the Total Environment</i> , 2018, 618, 39-47.	8.0	6
48	Metal contaminations impact archaeal community composition, abundance and function in remote alpine lakes. <i>Environmental Microbiology</i> , 2018, 20, 2422-2437.	3.8	5
49	A Rapid Routine Methodology Based on Chemometrics to Evaluate the Toxicity of Commercial Infant Milks Due to Hazardous Elements. <i>Food Analytical Methods</i> , 0, , 1.	2.6	3
50	Detection of organic compounds in impact glasses formed by the collision of an extraterrestrial material with the Libyan Desert (Africa) and Tasmania (Australia). <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6609-6617.	3.7	2
51	Analytical methodology to evaluate the Terrestrial Weathering of Libyan Desert Glasses and Darwin Glasses after their formation. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7869-7877.	3.7	0
52	Raman spectroscopy to investigate the speciation and origin of hazardous elements associated to suspended particulate matter during a large flood event. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1480-1492.	2.5	0