Ornella Abollino

List of Publications by Year
in descending order

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80	2,451	186265	214800
papers	citations	28 h-index	47 g-index

80	80	80	3322
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic Iron Oxide Nanoparticles: Synthesis, Characterization and Functionalization for Biomedical Applications in the Central Nervous System. Materials, 2019, 12, 465.	2.9	171
2	Accumulation of heavy metals from contaminated soil to plants and evaluation of soil remediation by vermiculite. Chemosphere, 2011, 82, 169-178.	8.2	158
3	Determination of Mercury by Anodic Stripping Voltammetry with a Gold Nanoparticleâ€Modified Glassy Carbon Electrode. Electroanalysis, 2008, 20, 75-83.	2.9	138
4	Determination of metals in wine with atomic spectroscopy (flame-AAS, GF-AAS and ICP-AES); a review. Food Additives and Contaminants, 2002, 19, 126-133.	2.0	99
5	Parameters affecting the determination of mercury by anodic stripping voltammetry using a gold electrode. Talanta, 2007, 75, 266-73.	5.5	96
6	Distribution and mobility of metals in contaminated sites. Chemometric investigation of pollutant profiles. Environmental Pollution, 2002, 119, 177-193.	7.5	93
7	The role of chemometrics in single and sequential extraction assays: A Review. Part II. Cluster analysis, multiple linear regression, mixture resolution, experimental design and other techniques. Analytica Chimica Acta, 2011, 688, 122-139.	5.4	80
8	The use of mosses as environmental metal pollution indicators. Chemosphere, 2003, 50, 333-342.	8.2	75
9	The role of chemometrics in single and sequential extraction assays: A review. Analytica Chimica Acta, 2011, 688, 104-121.	5.4	73
10	An approach for arsenic in a contaminated soil: Speciation, fractionation, extraction and effluent decontamination. Environmental Pollution, 2010, 158, 416-423.	7.5	72
11	Magnetic Nanoparticles in the Central Nervous System: Targeting Principles, Applications and Safety Issues. Molecules, 2018, 23, 9.	3.8	70
12	Fractionation and speciation of arsenic in three tea gardens soil profiles and distribution of As in different parts of tea plant (Camellia sinensis L.). Chemosphere, 2011, 85, 948-960.	8.2	66
13	Ion chromatographic separation and on-line cold vapour atomic absorption spectrometric determination of methylmercury, ethylmercury and inorganic mercury. Analytica Chimica Acta, 1994, 284, 661-667.	5.4	60
14	Assessment of Metal Availability in a Contaminated Soil by Sequential Extraction. Water, Air, and Soil Pollution, 2006, 173, 315-338.	2.4	58
15	Geochemical characterisation of Antarctic soils and lacustrine sediments from Terra Nova Bay. Microchemical Journal, 2009, 92, 21-31.	4.5	58
16	Determination of As(III) by anodic stripping voltammetry using a lateral gold electrode: Experimental conditions, electron transfer and monitoring of electrode surface. Talanta, 2011, 83, 1428-1435.	5.5	50
17	Determination of copper, cadmium, iron, manganese, nickel and zinc in Antarctic sea water. Comparison of electrochemical and spectroscopic procedures. Analytica Chimica Acta, 1995, 305, 200-206.	5.4	46
18	Spatial distribution and potential sources of trace elements in PM10 monitored in urban and rural sites of Piedmont Region. Chemosphere, 2016, 145, 495-507.	8.2	46

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19	Room Temperature Ionic Liquids As Useful Overlayers for Estimating Food Quality from Their Odor Analysis by Quartz Crystal Microbalance Measurements. Analytical Chemistry, 2013, 85, 7241-7247.	6.5	45
20	On-line preconcentration system for inductively coupled plasma atomic emission spectrometry with quinolin-8-ol and Amberlite XAD-2 resin. Analytica Chimica Acta, 1992, 258, 237-244.	5.4	42
21	Anodic stripping voltammetry with gold electrodes as an alternative method for the routine determination of mercury in fish. Comparison with spectroscopic approaches. Food Chemistry, 2017, 221, 737-745.	8.2	42
22	Distribution of major, minor and trace elements in lake environments of Antarctica. Antarctic Science, 2004, 16, 277-291.	0.9	40
23	Flow-injection preconcentration and electrothermal atomic absorption spectrometry determination of manganese in seawater. Analytica Chimica Acta, 2001, 435, 343-350.	5.4	36
24	Spin-dependent electrochemistry: Enantio-selectivity driven by chiral-induced spin selectivity effect. Electrochimica Acta, 2018, 286, 271-278.	5.2	35
25	Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation. Journal of Chromatography A, 1992, 626, 151-157.	3.7	34
26	Size resolved metal distribution in the PM matter of the city of Turin (Italy). Chemosphere, 2016, 147, 477-489.	8.2	34
27	Voltammetric determination of methylmercury and inorganic mercury with an home made gold nanoparticle electrode. Journal of Applied Electrochemistry, 2009, 39, 2209-2216.	2.9	33
28	Behavior of Different Metal/Ligand Systems in Adsorptive Cathodic Stripping Voltammetry. Electroanalysis, 1999, 11, 870-878.	2.9	31
29	Metal Content in Dandelion (Taraxacum officinale) Leaves: Influence of Vehicular Traffic and Safety upon Consumption as Food. Journal of Chemistry, 2016, 2016, 1-9.	1.9	31
30	Preconcentration and inductively coupled plasma atomic emission spectrometric determination of metal ions with on-line chelating ion exchange. Journal of Analytical Atomic Spectrometry, 1992, 7, 19.	3.0	27
31	Response to metal stress of Nicotiana langsdorffii plants wild-type and transgenic for the rat glucocorticoid receptor gene. Journal of Plant Physiology, 2013, 170, 668-675.	3.5	25
32	Chromium, nickel, and cobalt in cosmetic matrices: an integrated bioanalytical characterization through total content, bioaccessibility, and Cr(III)/Cr(VI) speciation. Analytical and Bioanalytical Chemistry, 2017, 409, 6831-6841.	3.7	23
33	Determination of trace europium by adsorptive cathodic stripping voltammetry after complexation with cupferron. Electroanalysis, 1997, 9, 444-448.	2.9	22
34	Determination and assessment of the contents of essential and potentially toxic elements in Ayurvedic medicine formulations by inductively coupled plasma-optical emission spectrometry. Microchemical Journal, 2011, 99, 2-6.	4.5	21
35	Metal ion content in Sepia officinalis melanin. Marine Chemistry, 1992, 39, 243-250.	2.3	20
36	Determination of the total and bioaccessible contents of essential and potentially toxic elements in ayurvedic formulations purchased from different commercial channels. Microchemical Journal, 2015, 120, 6-17.	4.5	20

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37	Electrocatalysis in the oxidation of acetaminophen with an electrochemically activated glassy carbon electrode. Electrochimica Acta, 2016, 192, 139-147.	5.2	20
38	Inter-annual and seasonal variability in PM10 samples monitored in the city of Turin (Italy) from 2002 to 2005. Microchemical Journal, 2013, 107, 76-85.	4.5	19
39	Temporal trends of elements in Turin (Italy) atmospheric particulate matter from 1976 to 2001. Chemosphere, 2013, 90, 2578-2588.	8.2	19
40	A Phase I Dose Escalation Study of Oxaliplatin, Cisplatin and Doxorubicin Applied as PIPAC in Patients with Peritoneal Carcinomatosis. Cancers, 2021, 13, 1060.	3.7	19
41	Spatial and seasonal variations of major, minor and trace elements in Antarctic seawater. Chemometric investigation of variable and site correlations. Journal of Environmental Management, 2001, 6, 29-43.	1.7	17
42	A Deep Eutectic Solventâ€based Amperometric Sensor for the Detection of Low Oxygen Contents in Gaseous Atmospheres. Electroanalysis, 2016, 28, 757-763.	2.9	17
43	Trace metal preconcentration with sulphonated azo-dyes and ICP/AES determination. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1411-1421.	0.1	15
44	Mechanistic Insights into the Role of Iron, Copper, and Carbonaceous Component on the Oxidative Potential of Ultrafine Particulate Matter. Chemical Research in Toxicology, 2021, 34, 767-779.	3.3	15
45	Characterization of the element content in lacustrine ecosystems in Terra Nova Bay, Antarctica. Microchemical Journal, 2012, 105, 142-151.	4.5	14
46	Analytical Applications of a Nanoparticleâ€Based Sensor for the Determination of Mercury. Electroanalysis, 2012, 24, 727-734.	2.9	14
47	Elemental and lead isotopic composition of atmospheric particulate measured in the Arctic region (Ny-Ã…lesund, Svalbard Islands). Rendiconti Lincei, 2016, 27, 73-84.	2.2	14
48	Application of an electro-activated glassy-carbon electrode to the determination of acetaminophen (paracetamol) in surface waters. Electrochimica Acta, 2018, 284, 279-286.	5.2	14
49	Ion-pair reversed-phase high-performance liquid chromatography for trace metal preconcentration followed by ion-interaction chromatography. Journal of Chromatography A, 1993, 640, 127-134.	3.7	12
50	Total and fractionation metal contents obtained with sequential extraction procedures in a sediment core from Terra Nova Bay, West Antarctica. Antarctic Science, 2013, 25, 83-98.	0.9	12
51	Element variability in lacustrine systems of Terra Nova Bay (Antarctica) and concentration evolution in surface waters. Chemosphere, 2017, 180, 343-355.	8.2	12
52	Electrochemical detection of sulphonated azo dyes and their metal complexes in ion interaction chromatography. Journal of Chromatography A, 1998, 804, 241-248.	3.7	10
53	Electroanalysis and Chemometrics of Speciation of Natural Waters â€“ continued. Analytical Proceedings, 1991, 28, 72-81.	0.4	9
54	Simultaneous stopped-flow kinetic determination of gallium and indium by a ligand substitution reaction. Analyst, The, 1991, 116, 1167.	3.5	9

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55	Distribution and Statistical Correlations of Major, Minor and Trace Metals in Lake Environments of Antarctica. International Journal of Environmental Analytical Chemistry, 1998, 71, 245-255.	3.3	9
56	The Use of Sequential Extraction Procedures for the Characterization and Management of Contaminated Soils. Annali Di Chimica, 2005, 95, 525-538.	0.6	8
57	Stripping voltammetry for field determination of traces of copper in soil extracts and natural waters. Microchemical Journal, 2019, 149, 104015.	4.5	8
58	Ion-interaction chromatographic studies on metal ions completed with Plasmocorinth B dye. Journal of Chromatography A, 1993, 640, 179-185.	3.7	7
59	Voltammetric Determination and Speciation of Inorganic and Organometallic Tin. Electroanalysis, 2002, 14, 1090-1097.	2.9	7
60	Sulphonated azoligand for metal ion determination in ion interaction chromatography. Journal of Chromatography A, 1999, 847, 233-244.	3.7	6
61	Temporal variability and environmental availability of inorganic constituents in an Antarctic marine sediment core from a polynya area in the Ross Sea. Toxicological and Environmental Chemistry, 2010, 92, 453-475.	1.2	6
62	The Inorganic Component as a Possible Marker for Quality and for Authentication of the Hazelnutâ€™s Origin. International Journal of Environmental Research and Public Health, 2020, 17, 447.	2.6	6
63	Development of an easy portable procedure for on-site determination of mercury and methylmercury. Food Chemistry, 2021, 342, 128347.	8.2	6
64	Dynamics of inorganic components in lake waters from Terra Nova Bay, Antarctica. Chemosphere, 2017, 183, 454-470.	8.2	5
65	Optimization of a sequential extraction procedure for trace elements in Arctic PM10. Analytical and Bioanalytical Chemistry, 2020, 412, 7429-7440.	3.7	5
66	Determination of trace amounts of copper and iron in zirconium oxychloride by inductively coupled plasma atomic emission spectrometry using the standard additions method. Journal of Analytical Atomic Spectrometry, 1989, 4, 17.	3.0	4
67	Ion Exchange for the Determination of Stability Constants of Metal-Plasmocorinth B Complexes and Preconcentration Procedure. Analytical Sciences, 1992, 8, 201-206.	1.6	4
68	Distribution of major, minor and trace elements in Antarctic offshore and Coastal seawaters: correlation among sites and variables by pattern recognition. International Journal of Environmental Analytical Chemistry, 2004, 84, 471-492.	3.3	4
69	Inorganic markers profiling in wild type and genetically modified plants subjected to abiotic stresses. Microchemical Journal, 2017, 134, 87-97.	4.5	4
70	Achievability of Municipal Solid Waste Compost for Tea Cultivation with Special Reference to Cadmium. Clean - Soil, Air, Water, 2018, 46, 1800093.	1.1	4
71	Potentially toxic elements in ayurvedic formulations: Total and bioaccessible content. Microchemical Journal, 2018, 136, 236-243.	4.5	4
72	A Portable Setup for the Voltammetric Determination of Total Mercury in Fish with Solid and Nanostructured Gold Electrodes. Molecules, 2019, 24, 1910.	3.8	4

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73	Influence of start-up phase of an incinerator on inorganic composition and lead isotope ratios of the atmospheric PM10. Chemosphere, 2021, 266, 129091.	8.2	4
74	Determination of major, minor and trace elements in Glyceric Macerates and Mother Tinctures and in the starting plant materials. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 167-178.	2.8	3
75	Contribution of the Incinerator to the Inorganic Composition of the PM10 Collected in Turin. Atmosphere, 2020, 11, 400.	2.3	3
76	Chemical Fractionation of Trace Elements in Arctic PM10 Samples. Atmosphere, 2021, 12, 1152.	2.3	2
77	Hydroxyazo-Dyes in Metal Ions Preconcentration by Ion Exchange. , 1992, , 279-286.		2
78	Chemical Speciation of Antarctic Atmospheric Depositions. Applied Sciences (Switzerland), 2022, 12, 4438.	2.5	2
79	On-Site Determination of Methylmercury by Coupling Solid-Phase Extraction and Voltammetry. Molecules, 2022, 27, 3178.	3.8	2
80	Behavior of Different Metal/Ligand Systems in Adsorptive Cathodic Stripping Voltammetry. Electroanalysis, 1999, 11, 870-878.	2.9	1