

Tiberiu Frentiu

List of Publications by Year in descending order

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papers

897
citations

516215

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67
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700
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#	ARTICLE	IF	CITATIONS
1	Heavy Metal-Resistant Filamentous Fungi as Potential Mercury Bioremediators. <i>Journal of Fungi (Basel)</i> , 2021, 6, 1-10. doi:10.3390/jof6010001	1.5	43
2	Simultaneous determination of As and Sb in soil using hydride generation capacitively coupled plasma microtorch optical emission spectrometry – comparison with inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1880-1888.	1.6	36
3	New method for mercury determination in microwave digested soil samples based on cold vapor capacitively coupled plasma microtorch optical emission spectrometry: Comparison with atomic fluorescence spectrometry. <i>Microchemical Journal</i> , 2013, 110, 545-552.	2.3	31
4	Mercury determination in non- and biodegradable materials by cold vapor capacitively coupled plasma microtorch atomic emission spectrometry. <i>Journal of Hazardous Materials</i> , 2011, 193, 65-69.	6.5	29
5	Characterization and assessment of potential environmental risk of tailings stored in seven impoundments in the Aries river basin, Western Romania. <i>Chemistry Central Journal</i> , 2013, 7, 5.	2.6	28
6	Low power capacitively coupled plasma microtorch for simultaneous multielemental determination by atomic emission using microspectrometers. <i>Microchemical Journal</i> , 2011, 97, 188-195.	2.3	27
7	Arsenic and antimony determination in non- and biodegradable materials by hydride generation capacitively coupled plasma microtorch optical emission spectrometry. <i>Talanta</i> , 2013, 109, 84-90.	2.9	27
8	A novel analytical system with a capacitively coupled plasma microtorch and a gold filament microcollector for the determination of total Hg in water by cold vapour atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1753.	1.6	23
9	Determination, speciation and distribution of mercury in soil in the surroundings of a former chlor-alkali plant: assessment of sequential extraction procedure and analytical technique. <i>Chemistry Central Journal</i> , 2013, 7, 178.	2.6	22
10	Methylmercury determination in seafood by photochemical vapor generation capacitively coupled plasma microtorch optical emission spectrometry. <i>Talanta</i> , 2017, 170, 464-472.	2.9	22
11	Characterisation of soil quality and mobility of Cd, Cu, Pb and Zn in the Baia Mare area Northwest Romania following the historical pollution. <i>International Journal of Environmental Analytical Chemistry</i> , 2009, 89, 635-649.	1.8	21
12	Study of partitioning and dynamics of metals in contaminated soil using modified four-step BCR sequential extraction procedure. <i>Chemical Papers</i> , 2009, 63, .	1.0	19
13	A miniaturized capacitively coupled plasma microtorch optical emission spectrometer and a Rh coiled-filament as small-sized electrothermal vaporization device for simultaneous determination of volatile elements from liquid microsamples: Spectral and analytical characterization. <i>Talanta</i> , 2014, 129, 72-78.	2.9	19
14	Chemical modeling of groundwater in the Banat Plain, southwestern Romania, with elevated As content and co-occurring species by combining diagrams and unsupervised multivariate statistical approaches. <i>Chemosphere</i> , 2017, 172, 127-137.	4.2	19
15	Eco-scale non-chromatographic method for mercury speciation in fish using formic acid extraction and UV-Vis photochemical vapor generation capacitively coupled plasma microtorch optical emission spectrometry. <i>Microchemical Journal</i> , 2018, 141, 155-162.	2.3	19
16	Mercury speciation in fish tissue by eco-scale thermal decomposition atomic absorption spectrometry: method validation and risk exposure to methylmercury. <i>Chemical Papers</i> , 2018, 72, 441-448.	1.0	18
17	Atmospheric pressure capacitively coupled plasma source for the direct analysis of non-conductive solid samples. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 541-545.	1.6	16
18	Distribution study of inorganic arsenic (III) and (V) species in soil and their mobility in the area of Baia-Mare, Romania. <i>Chemical Speciation and Bioavailability</i> , 2006, 18, 11-25.	2.0	16

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19	Evaluation of figures of merit for Zn determination in environmental and biological samples using EDL excited AFS in a new radiofrequency capacitively coupled plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 739.	1.6	16
20	Sono-induced cold vapour generation interfaced with capacitively coupled plasma microtorch optical emission spectrometry: analytical characterization and comparison with atomic fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1161-1168.	1.6	16
21	Analytical characterization of a method for mercury determination in food using cold vapour capacitively coupled plasma microtorch optical emission spectrometry " compliance with European legislation requirements. <i>Analytical Methods</i> , 2015, 7, 747-752.	1.3	16
22	Determination of Cd in food using an electrothermal vaporization capacitively coupled plasma microtorch optical emission microspectrometer: Compliance with European legislation and comparison with graphite furnace atomic absorption spectrometry. <i>Food Control</i> , 2016, 61, 227-234.	2.8	16
23	Mercury speciation in seafood using non-chromatographic chemical vapor generation capacitively coupled plasma microtorch optical emission spectrometry method " Evaluation of methylmercury exposure. <i>Food Control</i> , 2017, 82, 266-273.	2.8	16
24	Preliminary investigation of a medium power argon radiofrequency capacitively coupled plasma as atomization cell in atomic fluorescence spectrometry of cadmium. <i>Talanta</i> , 2008, 76, 1170-1176.	2.9	15
25	A highly sensitive eco-scale method for mercury determination in water and food using photochemical vapor generation and miniaturized instrumentation for capacitively coupled plasma microtorch optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 799-808.	1.6	15
26	Capacitively coupled plasma with tip-ring electrode geometry for atomic emission spectrometry. Analytical performance and matrix effect of sodium chloride and potassium chloride. <i>Journal of Analytical Atomic Spectrometry</i> , 1994, 9, 635.	1.6	14
27	Elemental speciation of lead, zinc and copper in sedimented dust and soil using a capacitively coupled plasma atomic emission spectrometer as detector. <i>Analyst, The</i> , 1995, 120, 725.	1.7	14
28	Validation of the Tessier scheme for speciation of metals in soil using the Bland and Altman test. <i>Chemical Papers</i> , 2008, 62, .	1.0	14
29	Assessment of contamination and origin of metals in mining affected river sediments: A case study of the Aries catchment, Romania. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 1019-1036.	0.4	14
30	Determination of Total Mercury in Fish Tissue Using a Low-Cost Cold Vapor Capacitively Coupled Plasma Microtorch Optical Emission Microspectrometer: Comparison with Direct Mercury Determination by Thermal Decomposition Atomic Absorption Spectrometry. <i>Food Analytical Methods</i> , 2015, 8, 643-648.	1.3	14
31	Optimisation of analytical parameters in inorganic arsenic (III and V) speciation by hydride generation using L-cysteine as prereducing agent in diluted HCl medium. <i>Chemical Speciation and Bioavailability</i> , 2006, 18, 1-9.	2.0	13
32	Spectroscopic investigations on a low power atmospheric pressure capacitively coupled helium plasma. <i>Plasma Sources Science and Technology</i> , 2008, 17, 045016.	1.3	13
33	Application of low-cost electrothermal vaporization capacitively coupled plasma microtorch optical emission spectrometry for simultaneous determination of Cd and Pb in environmental samples. <i>Microchemical Journal</i> , 2015, 121, 192-198.	2.3	13
34	Prediction of the fate of Hg and other contaminants in soil around a former chlor-alkali plant using Fuzzy Hierarchical Cross-Clustering approach. <i>Chemosphere</i> , 2015, 138, 96-103.	4.2	13
35	Hydroxyapatite for removal of heavy metals from wastewater. <i>Studia Universitatis Babeş-Bolyai Chemia</i> , 2017, 62, 93-104.	0.1	13
36	Analytical characterisation of a capacitively coupled plasma torch with a central tube electrode. <i>Talanta</i> , 1999, 48, 827-837.	2.9	12

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37	Interference-free, green microanalytical method for total mercury and methylmercury determination in biological and environmental samples using small-sized electrothermal vaporization capacitively coupled plasma microtorch optical emission spectrometry. <i>Talanta</i> , 2020, 217, 121067.	2.9	12
38	Characterization of a very low power argon CCP. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 966.	1.6	11
39	Analytical capability of a medium power capacitively coupled plasma for the multielemental determination in multiminerals/multivitamin preparations by atomic emission spectrometry. <i>Food Chemistry</i> , 2012, 134, 2447-2452.	4.2	11
40	Validation of an analytical method based on the high-resolution continuum source flame atomic absorption spectrometry for the fast-sequential determination of several hazardous/priority hazardous metals in soil. <i>Chemistry Central Journal</i> , 2013, 7, 43.	2.6	11
41	Rapid Determination of Trace Elements in Macedonian Grape Brandies for Their Characterization and Safety Evaluation. <i>Food Analytical Methods</i> , 2017, 10, 459-468.	1.3	11
42	Determination of selenium in food and environmental samples by hydride generation high-resolution continuum source quartz furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 267-272.	1.6	11
43	Preliminary study on heavy metals contamination of soil using solid phase speciation and the influence on groundwater in Bozanta "Baia Mare Area, Romania. <i>Chemical Speciation and Bioavailability</i> , 2008, 20, 99-109.	2.0	10
44	Quenching of the OH and nitrogen molecular emission by methane addition in an Ar capacitively coupled plasma to remove spectral interference in lead determination by atomic fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 565-570.	1.5	10
45	Characterization of <i>Lycium barbarum</i> L. berry cultivated in North Macedonia: A chemometric approach. <i>Journal of Berry Research</i> , 2020, 10, 223-241.	0.7	10
46	Cadmium Determination in Sedimented Dust by Atomic Emission Spectrometry With a New Radiofrequency Capacitively Coupled Plasma Source. <i>Analytical Letters</i> , 2000, 33, 323-335.	1.0	9
47	Investigation of a medium power radiofrequency capacitively coupled plasma and its application to high-temperature superconductor analysis via atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 957.	1.6	9
48	Profile distribution of As(III) and As(V) species in soil and groundwater in Bozanta area. <i>Chemical Papers</i> , 2007, 61, .	1.0	9
49	A microanalytical method based on electrothermal vaporization capacitively coupled plasma microtorch optical emission spectrometry for multielemental determination: comparison with inductively coupled plasma optical emission spectrometry. <i>Chemical Papers</i> , 2017, 71, 91-102.	1.0	9
50	Statistical Evaluation of Cu, Mn and Zn Determinations in Biological Samples by Radiofrequency Capacitively Coupled Plasma Atomic Emission Spectrometry Using the Bland and Altman Test. <i>Mikrochimica Acta</i> , 2003, 143, 245-254.	2.5	8
51	Effect of titanium ions on the ion release rate and uptake at the interface of silica based xerogels with simulated body fluid. <i>Corrosion Science</i> , 2013, 72, 41-46.	3.0	8
52	Investigation of Medium Power Radiofrequency Capacitively Coupled Plasmas and Their Application to Atomic Emission Spectrometry for the Determination of Aluminium in Water Samples. <i>Mikrochimica Acta</i> , 2004, 147, 93.	2.5	7
53	Discharge characteristics and non-spectral interferences on the emission of ca species in a medium power radiofrequency capacitively coupled plasma source. <i>Acta Chimica Slovenica</i> , 2010, 57, 173-81.	0.2	7
54	Influence of Mixed Additives on the Physicochemical Properties of a 5.25% Sodium Hypochlorite Solution: An Unsupervised Multivariate Statistical Approach. <i>Journal of Endodontics</i> , 2018, 44, 280-285.e3.	1.4	6

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55	Simultaneous Determination of As, Bi, Sb, Se, Te, Hg, Pb and Sn by Small-Sized Electrothermal Vaporization Capacitively Coupled Plasma Microtorch Optical Emission Spectrometry Using Direct Liquid Microsampling. <i>Molecules</i> , 2021, 26, 2642.	1.7	6
56	Effect of in vitro simulated gastrointestinal digestion on some nutritional characteristics of several dried fruits. <i>Food Chemistry</i> , 2022, 385, 132713.	4.2	6
57	Analytical performances and validation of optical emission and atomic absorption spectrometry methods for multielemental determination in vegetables and fruits. <i>Revue Roumaine De Chimie</i> , 2020, 65, 735-745.	0.4	5
58	Magnesium and selenium in diabetics with peripheral artery disease of the lower limbs. <i>Clujul Medical</i> , 2013, 86, 235-9.	0.1	5
59	"Spectrophotometric determination and assessment of potential health risk of nitrite from meat and processed meat products ". <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2019, 64, 265-277.	0.1	4
60	Application of Inductively Coupled Plasma Spectrometric Techniques and Multivariate Statistical Analysis in the Hydrogeochemical Profiling of Caves Case Study Cloșani, Romania. <i>Molecules</i> , 2021, 26, 6788.	1.7	4
61	Simple and robust method for lithium traces determination in drinking water by atomic emission using low-power capacitively coupled plasma microtorch and microspectrometer. <i>Food Chemistry</i> , 2013, 141, 3621-3626.	4.2	3
62	ASSESSMENT OF POLLUTANTS INPUT OF ACID MINE DRAINAGE AND DOMESTIC ACTIVITIES IN ARIES RIVER WATER, ROMANIA - A CHEMOMETRIC APPROACH. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 2567-2576.	0.2	2
63	Portable system for heavy metals detection based on spectral analysis. , 2014, , .		1
64	Low-power radio-frequency capacitively coupled plasma in air: an alternative spectral source?. , 2000, , .		0
65	"Influence of the composition evolution of waste computer motherboards on their recycling strategy ". <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2018, 63, 147-158.	0.1	0
66	GROUNDWATER CHARACTERIZATION IN SOUTHWESTERN ROMANIA USING FUZZY HIERARCHICAL CROSS CLUSTERING. <i>Environmental Engineering and Management Journal</i> , 2019, 18, 1967-1976.	0.2	0
67	A free non-spectral interferences method based on inductively coupled plasma optical emission spectrometry for multielemental determination in multimineral/multivitamin preparations. <i>Revue Roumaine De Chimie</i> , 2020, 65, 573-578.	0.4	0