

Emilia Vassileva

List of Publications by Year in descending order

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68
papers

1,474
citations

361413

20
h-index

345221

36
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69
all docs

69
docs citations

69
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Ni/SiO ₂ Catalysts Prepared by Successive Deposition and Reduction of Ni ²⁺ Ions. <i>Journal of Catalysis</i> , 1999, 185, 314-323.	6.2	168
2	Solid-phase extraction of heavy metal ions on a high surface area titanium dioxide (anatase). <i>Analyst</i> , The, 1996, 121, 607.	3.5	112
3	Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods. <i>Analytica Chimica Acta</i> , 1998, 358, 85-94.	5.4	85
4	Determination of arsenic and selenium species in groundwater and soil extracts by ion chromatography coupled to inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2001, 441, 135-146.	5.4	77
5	Application of high-surface-area ZrO ₂ in preconcentration and determination of 18 elements by on-line flow injection with inductively coupled plasma atomic emission spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 52-59.	1.5	75
6	Chromium speciation analysis by solid-phase extraction on a high surface area TiO ₂ . <i>Analyst</i> , The, 2000, 125, 693-698.	3.5	70
7	Column solid-phase extraction of heavy metal ions on a high surface area CeO ₂ as a preconcentration method for trace determination. <i>Analytica Chimica Acta</i> , 1996, 336, 141-150.	5.4	50
8	Marine sponges as a powerful tool for trace elements biomonitoring studies in coastal environment. <i>Marine Pollution Bulletin</i> , 2018, 131, 633-645.	5.0	44
9	Revisitation of mineralization modes for arsenic and selenium determinations in environmental samples. <i>Talanta</i> , 2001, 54, 187-196.	5.5	43
10	Certification measurement of the cadmium, copper and lead contents in rice using isotope dilution inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2004, 519, 79-86.	5.4	43
11	Determination of cadmium, copper, mercury, lead and zinc mass fractions in marine sediment by isotope dilution inductively coupled plasma mass spectrometry applied as a reference method. <i>Microchemical Journal</i> , 2016, 128, 198-207.	4.5	33
12	Determination of methylmercury in marine biota samples: Method validation. <i>Talanta</i> , 2014, 122, 106-114.	5.5	32
13	Application of iminodiacetate chelating resin muromac A-1 in on-line preconcentration and inductively coupled plasma optical emission spectroscopy determination of trace elements in natural waters. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 1541-1552.	2.9	31
14	Method validation for high resolution sector field inductively coupled plasma mass spectrometry determination of the emerging contaminants in the open ocean: Rare earth elements as a case study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 128, 1-10.	2.9	31
15	Determination of methylmercury in marine sediment samples: Method validation and occurrence data. <i>Analytica Chimica Acta</i> , 2015, 853, 167-178.	5.4	28
16	Certified Reference Material IAEA-446 for radionuclides in Baltic Sea seaweed. <i>Applied Radiation and Isotopes</i> , 2014, 87, 468-474.	1.5	26
17	Determination of trace elements in AR grade alkali salts after preconcentration by column solid-phase extraction on TiO ₂ (anatase). <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 881-885.	1.5	25
18	First results on Fe solid-phase extraction from coastal seawater using anatase TiO ₂ nano-particles. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2349-2361.	3.7	22

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19	Reference measurements for cadmium, copper, mercury, lead, zinc and methyl mercury mass fractions in scallop sample by isotope dilution inductively coupled plasma mass spectrometry. <i>Microchemical Journal</i> , 2014, 116, 197-205.	4.5	21
20	Reference measurements for total mercury and methyl mercury content in marine biota samples using direct or species-specific isotope dilution inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2016, 160, 562-569.	5.5	21
21	Chemical Forms of Mercury in Blue Marlin Billfish: Implications for Human Exposure. <i>Environmental Science and Technology Letters</i> , 2021, 8, 405-411.	8.7	21
22	Determination of methylmercury in marine biota samples with advanced mercury analyzer: Method validation. <i>Food Chemistry</i> , 2015, 176, 367-375.	8.2	20
23	First assessment on trace elements in sediment cores from Namibian coast and pollution sources evaluation. <i>Science of the Total Environment</i> , 2019, 669, 668-682.	8.0	20
24	Certification of the Cu and Cd amount contents in artificial food digest using isotope dilution inductively coupled plasma mass spectrometry for Pilot Study 13 of the Comité Consultatif pour la Quantité de Matière. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 1553-1565.	2.9	19
25	Certified reference materials for radionuclides in Bikini Atoll sediment (IAEA-410) and Pacific Ocean sediment (IAEA-412). <i>Applied Radiation and Isotopes</i> , 2016, 109, 101-104.	1.5	19
26	Determination of the total and extractable mass fractions of cadmium and lead in mineral feed by using isotope dilution inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2011, 701, 37-44.	5.4	18
27	Determination of arsenic in plant samples by inductively coupled plasma atomic emission spectrometry with ultrasonic nebulization: a complex problem. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 223-232.	2.9	17
28	Regular solution theory in model interpretation of the analyte losses during preatomization sample treatment in the presence of chemical modifiers in electrothermal atomization atomic absorption spectrometry. <i>Analytical Chemistry</i> , 1992, 64, 2596-2603.	6.5	16
29	Isotope analysis for marine environmental studies. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 192-199.	1.5	16
30	Determination of ultra-trace level of ²³² Th in seawater by ICP-SFMS after matrix separation and preconcentration. <i>Analytica Chimica Acta</i> , 2018, 1000, 144-154.	5.4	16
31	Proficiency test for heavy metals in feed and food in Europe. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 454-465.	11.4	15
32	Simultaneous speciation analysis of mercury in marine origin samples by high performance liquid chromatography and species - specific isotope dilution inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2020, 217, 121113.	5.5	15
33	Comparative study on Hg bioaccumulation and biotransformation in Mediterranean and Atlantic sponge species. <i>Chemosphere</i> , 2020, 260, 127515.	8.2	15
34	Preconcentration methods for determination of trace amounts of impurities in high-purity copper salts by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry. <i>Analyt, The</i> , 1992, 117, 1933.	3.5	14
35	Cadmium determination in natural waters at the limit imposed by European legislation by isotope dilution and TiO ₂ solid-phase extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2785-2792.	3.7	14
36	Advantages of the iridium permanent modifier in fast programs applied to trace-element analysis of plant samples by electrothermal atomic absorption spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 491-495.	1.5	12

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37	Off-line preconcentration and inductively coupled plasma sector field mass spectrometry simultaneous determination of Cd, Co, Cu, Mn, Ni, Pb and Zn mass fractions in seawater: Procedure validation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 153, 19-27.	2.9	12
38	Trace elements contamination assessment in marine sediments from different regions of the Caribbean Sea. <i>Journal of Hazardous Materials</i> , 2020, 399, 122934.	12.4	12
39	Determination of total mercury for marine environmental monitoring studies by solid sampling continuum source high resolution atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 24-33.	2.9	11
40	Use of high surface area TiO ₂ for preconcentration and following determination of Cr species by on-line flow injection inductively coupled plasma atomic emission spectrometry. <i>Analisis - European Journal of Analytical Chemistry</i> , 2000, 28, 878-884.	0.4	11
41	Discussion of parameters associated with the determination of arsenic by electrothermal atomic absorption spectrometry in slurried environmental samples. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 159-165.	1.5	10
42	Influence of the correction for moisture/water content on the quality of the certification of cadmium, copper and lead mass fractions in rice. <i>Food Chemistry</i> , 2008, 106, 1485-1490.	8.2	9
43	Development of procedure for measurement of Pb isotope ratios in seawater by application of seaFAST sample pre-treatment system and Sector Field Inductively Coupled Plasma Mass Spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 126, 93-100.	2.9	9
44	Determination of low-level plutonium in seawater by sector field inductively coupled plasma mass spectrometry: method validation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 7898-7910.	5.3	8
45	Baseline study on trace and rare earth elements in marine sediments collected along the Namibian coast. <i>Marine Pollution Bulletin</i> , 2018, 131, 386-395.	5.0	8
46	Marine sponges as coastal bioindicators of rare earth elements bioaccumulation in the French Mediterranean Sea. <i>Environmental Pollution</i> , 2022, 304, 119172.	7.5	8
47	Marine sediments monitoring studies for trace elements with the application of fast temperature programs and solid sampling high resolution continuum source atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 131-143.	2.9	7
48	Rapid determination of femtomolar methylmercury in seawater using automated GC-AFS method: Optimisation of the extraction step and method validation. <i>Talanta</i> , 2021, 232, 122492.	5.5	7
49	Assessment of Heavy Metals Air Pollution in Urban and Industrial Environments Using OAK Leaves as Biondicators. <i>International Journal of Environmental Analytical Chemistry</i> , 2000, 78, 159-173.	3.3	6
50	TrainMiC: an information platform as a tool for the education of metrology in chemistry. <i>Accreditation and Quality Assurance</i> , 2003, 8, 369-371.	0.8	6
51	Reference measurements of mercury species in seafood using isotope dilution inductively coupled plasma mass spectrometry. <i>Journal of Food Composition and Analysis</i> , 2020, 86, 103381.	3.9	6
52	Environmental monitoring of total mercury content in different marine compartments after cold vapor generation and inductively coupled plasma mass spectrometry determination. <i>Accreditation and Quality Assurance</i> , 2020, 25, 221-231.	0.8	5
53	Certification for trace elements and methyl mercury mass fractions in IAEA-452 scallop (<i>Pecten</i>) Tj ETQq1 1 0.784314 rgBT /Qverlock 10	0.8	4
54	Cold vapour matrix-independent generation and isotope dilution inductively coupled plasma mass spectrometry for reference measurements of Hg in marine environmental samples. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22051-22060.	5.3	4

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55	Temporal variation of trace elements, rare earth elements and Pb isotope ratios in sediment core from Kiel Bay, western Baltic Sea. <i>Environmental Chemistry</i> , 2020, 17, 579.	1.5	4
56	The occurrence and distribution of rare earth elements in mineral and thermal waters in the Polish Lowlands. <i>Journal of Geochemical Exploration</i> , 2022, 237, 106984.	3.2	4
57	Extraction systems of flame atomic absorption determination of trace impurities in high purity nickel salts. <i>Fresenius' Journal of Analytical Chemistry</i> , 1990, 336, 582-585.	1.5	3
58	TrainMiCÂ®: a programme for life-long learning in metrology in chemistry. <i>Accreditation and Quality Assurance</i> , 2009, 14, 167-173.	0.8	3
59	Determination of selected trace elements in marine biota samples with the application of fast temperature programs and solid sampling continuous source high resolution atomic absorption spectroscopy: method validation. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, , 1-20.	3.3	3
60	Reference Measurements for Priority and Essential Trace Elements and Methyl Mercury with Isotope Dilution Inductively Coupled Plasma-Mass Spectrometry for Seafood Safety Assessment and CRM Production. <i>Food Analytical Methods</i> , 2020, 13, 390-402.	2.6	3
61	The Role of Proteins in the Fixation of Heavy Metals on Oak Leaves. <i>International Journal of Environmental Analytical Chemistry</i> , 1996, 62, 129-136.	3.3	2
62	Certification for trace elements and methyl mercury mass fractions in IAEA-456 marine sediment sample. <i>Accreditation and Quality Assurance</i> , 2018, 23, 29-37.	0.8	2
63	A multinebulization technique for the determination of trace metals in a marine biota sample by on-line isotope dilution inductively coupled plasma mass spectrometry (OID-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2509-2516.	3.0	2
64	A participatory improvement activity of the EC-JRC to improve metrology in chemistry in EU candidate countries. <i>Accreditation and Quality Assurance</i> , 2002, 7, 419-422.	0.8	1
65	A strategy for a national metrology institute to create a cost effective distributed metrology infrastructure for chemical measurements. <i>Accreditation and Quality Assurance</i> , 2004, 9, 478.	0.8	0
66	TrainMiC_Â: Providing a Tool for the Inter-Calibration of Technical Assessors in Europe in the Area of Chemical Measurements. <i>Chimia</i> , 2009, 63, 686-688.	0.6	0
67	Application of Isotope Dilution Mass Spectrometry for Reference Measurements of Cadmium, Copper, Mercury, Lead, Zinc and Methyl Mercury in Marine Sediment Sample. <i>E3S Web of Conferences</i> , 2013, 1, 05008.	0.5	0
68	3. Trace Elements in the Environment. , 2017, , 95-177.		0