

Maria C Bruzzoniti

List of Publications by Year in descending order

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96
papers

2,430
citations

186265

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254184

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docs citations

97
times ranked

2688
citing authors

#	ARTICLE	IF	CITATIONS
1	QuEChERS sample preparation for the determination of pesticides and other organic residues in environmental matrices: a critical review. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4089-4116.	3.7	244
2	Determination of metals in wine with atomic spectroscopy (flame-AAS, GF-AAS and ICP-AES); a review. <i>Food Additives and Contaminants</i> , 2002, 19, 126-133.	2.0	99
3	Determination of herbicides by solid phase extraction gas chromatography-mass spectrometry in drinking waters. <i>Analytica Chimica Acta</i> , 2006, 578, 241-249.	5.4	77
4	Preconcentration of contaminants in water analysis. <i>Journal of Chromatography A</i> , 2000, 902, 289-309.	3.7	75
5	Metal species determination by ion chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2001, 20, 304-310.	11.4	74
6	Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 1998, 375, 299-306.	5.4	71
7	Retention of heavy metal ions on SBA-15 mesoporous silica functionalised with carboxylic groups. <i>Journal of Separation Science</i> , 2007, 30, 2414-2420.	2.5	69
8	Iron oxide inside SBA-15 modified with amino groups as reusable adsorbent for highly efficient removal of glyphosate from water. <i>Applied Surface Science</i> , 2017, 411, 457-465.	6.1	60
9	Innovative combination of QuEChERS extraction with on-line solid-phase extract purification and pre-concentration, followed by liquid chromatography-tandem mass spectrometry for the determination of non-steroidal anti-inflammatory drugs and their metabolites in sewage sludge. <i>Analytica Chimica Acta</i> , 2016, 935, 269-281.	5.4	55
10	Synthesis of new ionic β -cyclodextrin polymers and characterization of their heavy metals retention. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 631-636.	1.6	52
11	Determination of rare earth elements by ion chromatography. Separation procedure optimization. <i>Analytica Chimica Acta</i> , 1996, 322, 49-54.	5.4	51
12	Preconcentration and separation of haloacetic acids by ion chromatography. <i>Journal of Chromatography A</i> , 1999, 850, 197-211.	3.7	51
13	Polymer-derived ceramic aerogels as sorbent materials for the removal of organic dyes from aqueous solutions. <i>Journal of the American Ceramic Society</i> , 2018, 101, 821-830.	3.8	46
14	Ion chromatography with inductively coupled plasma mass spectrometry, a powerful analytical tool for complex matrices. <i>Journal of Chromatography A</i> , 2003, 997, 51-63.	3.7	45
15	A Review on the Degradation of Pollutants by Fenton-Like Systems Based on Zero-Valent Iron and Persulfate: Effects of Reduction Potentials, pH, and Anions Occurring in Waste Waters. <i>Molecules</i> , 2021, 26, 4584.	3.8	43
16	Functionalized iron oxide/SBA-15 sorbent: investigation of adsorption performance towards glyphosate herbicide. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21682-21691.	5.3	37
17	Removal efficiency and mass balance of polycyclic aromatic hydrocarbons, phthalates, ethoxylated alkylphenols and alkylphenols in a mixed textile-domestic wastewater treatment plant. <i>Science of the Total Environment</i> , 2019, 674, 36-48.	8.0	37
18	Comparison of prediction power between theoretical and neural-network models in ion-interaction chromatography. <i>Journal of Chromatography A</i> , 1998, 799, 35-45.	3.7	35

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19	Highly crosslinked ionic β -cyclodextrin polymers and their interaction with heavy metals. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 637-643.	1.6	35
20	Determination of metals in highly saline matrices by solid-phase extraction and slurry-sampling inductively coupled plasma-atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 1998, 375, 293-298.	5.4	33
21	High performance ion chromatography of haloacetic acids on macrocyclic cryptand anion exchanger. <i>Journal of Chromatography A</i> , 2008, 1187, 188-196.	3.7	33
22	Evaluation of different QuEChERS procedures for the recovery of selected drugs and herbicides from soil using LC coupled with UV and pulsed amperometry for their detection. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1217-1229.	3.7	33
23	Applicability of the direct injection liquid chromatographic tandem mass spectrometric analytical approach to the sub-ng L ⁻¹ determination of perfluoro-alkyl acids in waste, surface, ground and drinking water samples. <i>Talanta</i> , 2018, 176, 412-421.	5.5	33
24	On-line preconcentration, ion chromatographic separation and spectrophotometric determination of palladium at trace level. <i>Journal of Chromatography A</i> , 2003, 1007, 93-100.	3.7	32
25	Determination of EPA's priority pollutant polycyclic aromatic hydrocarbons in drinking waters by solid phase extraction-HPLC. <i>Analytical Methods</i> , 2010, 2, 739.	2.7	32
26	Adsorption of bentazone herbicide onto mesoporous silica: application to environmental water purification. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5399-5409.	5.3	30
27	Optimization and validation of a method based on QuEChERS extraction and liquid chromatographic-tandem mass spectrometric analysis for the determination of perfluoroalkyl acids in strawberry and olive fruits, as model crops with different matrix characteristics. <i>Journal of Chromatography A</i> , 2020, 1621, 461038.	3.7	30
28	Functionalized SBA-15 mesoporous silica in ion chromatography of alkali, alkaline earths, ammonium and transition metal ions. <i>Journal of Chromatography A</i> , 2009, 1216, 5540-5547.	3.7	29
29	GC Methods for the Determination of Methanol and Ethanol in Insulating Mineral Oils as Markers of Cellulose Degradation in Power Transformers. <i>Chromatographia</i> , 2014, 77, 1081-1089.	1.3	29
30	Simple SPE-HPLC determination of some common drugs and herbicides of environmental concern by pulsed amperometry. <i>Talanta</i> , 2015, 131, 205-212.	5.5	27
31	Physicochemical properties and sorption capacities of sawdust-based biochars and commercial activated carbons towards ethoxylated alkylphenols and their phenolic metabolites in effluent wastewater from a textile district. <i>Science of the Total Environment</i> , 2020, 708, 135217.	8.0	27
32	Determination of lanthanides by ion chromatography. Separation and retention mechanism. <i>Analytica Chimica Acta</i> , 1997, 353, 239-244.	5.4	26
33	Simultaneous determination of inorganic anions and metal ions by suppressed ion chromatography. <i>Analytica Chimica Acta</i> , 1999, 382, 291-299.	5.4	25
34	Determination of sulfonic acids and alkylsulfates by ion chromatography in water. <i>Talanta</i> , 2008, 75, 734-739.	5.5	25
35	Retention properties of mesoporous silica-based materials. <i>Analytica Chimica Acta</i> , 2000, 422, 231-238.	5.4	24
36	Chromium, nickel, and cobalt in cosmetic matrices: an integrated bioanalytical characterization through total content, bioaccessibility, and Cr(III)/Cr(VI) speciation. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 6831-6841.	3.7	23

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37	Effect of ion-exchange site and eluent modifiers on the anion-exchange of carboxylic acids. <i>Journal of Chromatography A</i> , 2001, 925, 99-108.	3.7	22
38	Simultaneous determination of alkali, alkaline earths and ammonium in natural waters by ion chromatography. <i>Journal of Separation Science</i> , 2008, 31, 3182-3189.	2.5	22
39	New materials: analytical and environmental applications in ion chromatography. <i>Analytica Chimica Acta</i> , 2005, 540, 45-53.	5.4	21
40	Stability and Reactivity of Sulfur Compounds against Copper in Insulating Mineral Oil: Definition of a Corrosiveness Ranking. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8675-8684.	3.7	21
41	Retention model for singly and doubly charged analytes in ion-interaction chromatography. <i>Journal of Chromatography A</i> , 1996, 728, 55-65.	3.7	20
42	Determination of copper in liquid and solid insulation for large electrical equipment by ICP-OES. Application to copper contamination assessment in power transformers. <i>Talanta</i> , 2012, 99, 703-711.	5.5	20
43	New approaches for extraction and determination of betaine from <i>Beta vulgaris</i> samples by hydrophilic interaction liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5133-5141.	3.7	20
44	Regenerable, innovative porous silicon-based polymer-derived ceramics for removal of methylene blue and rhodamine B from textile and environmental waters. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10619-10629.	5.3	19
45	Microplastic in marine environment: reworking and optimisation of two analytical protocols for the extraction of microplastics from sediments and oysters. <i>MethodsX</i> , 2020, 7, 101116.	1.6	19
46	Retention Model for Anionic, Neutral, and Cationic Analytes in Reversed-Phase Ion Interaction Chromatography. <i>Analytical Chemistry</i> , 1996, 68, 4494-4500.	6.5	18
47	Ion chromatographic separation of carboxylic acids prediction of retention data. <i>Journal of Chromatography A</i> , 1997, 770, 13-22.	3.7	18
48	Determination of epichlorohydrin by ion chromatography. <i>Journal of Chromatography A</i> , 2000, 884, 251-259.	3.7	18
49	Flow injection method for the determination of silver concentration in drinking water for spacecrafts. <i>Analytica Chimica Acta</i> , 2010, 665, 69-73.	5.4	18
50	Copper contaminated insulating mineral oils-testing and investigations. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 557-563.	2.9	18
51	Functionalisation of mesoporous silica gel with 2-[(phosphonomethyl)-amino]acetic acid functional groups. Characterisation and application. <i>Applied Surface Science</i> , 2014, 288, 373-380.	6.1	18
52	Processing of polymer-derived silicon carbide foams and their adsorption capacity for non-steroidal anti-inflammatory drugs. <i>Ceramics International</i> , 2016, 42, 18937-18943.	4.8	17
53	Determination of epichlorohydrin by sulfite derivatization and ion chromatography: characterization of the sulfite derivatives by ion chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1034, 243-247.	3.7	16
54	Fully automated on-line solid phase extraction coupled to liquid chromatography-tandem mass spectrometry for the simultaneous analysis of alkylphenol polyethoxylates and their carboxylic and phenolic metabolites in wastewater samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3331-3347.	3.7	16

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55	Biochars intended for water filtration: A comparative study with activated carbons of their physicochemical properties and removal efficiency towards neutral and anionic organic pollutants. <i>Chemosphere</i> , 2022, 288, 132538.	8.2	16
56	On-line preconcentration and separation of neutral and charged aromatic compounds by ion interaction chromatography. <i>Journal of Chromatography A</i> , 1996, 739, 63-70.	3.7	15
57	MCM41 functionalized with ethylenediaminetriacetic acid for ion-exchange chromatography. <i>Journal of Materials Chemistry</i> , 2011, 21, 369-376.	6.7	15
58	Thermal Lens Spectrometric Determination of Colloidal and Ionic Silver in Water. <i>International Journal of Thermophysics</i> , 2011, 32, 818-827.	2.1	15
59	Amino groups modified SBA-15 for dispersive-solid phase extraction in the analysis of micropollutants by QuEChERS approach. <i>Journal of Chromatography A</i> , 2021, 1645, 462107.	3.7	14
60	Ion chromatographic separation of polyamines: putrescine, spermidine and spermine. <i>Analytica Chimica Acta</i> , 2001, 439, 107-114.	5.4	13
61	Fast low-pressure microwave assisted extraction and gas chromatographic determination of polychlorinated biphenyls in soil samples. <i>Journal of Chromatography A</i> , 2012, 1265, 31-38.	3.7	13
62	Carboxylic acids: prediction of retention data from chromatographic and electrophoretic behaviours. <i>Biomedical Applications</i> , 1998, 717, 3-25.	1.7	12
63	Effect of stationary phase hydrophobicity and mobile phase composition on the separation of carboxylic acids in ion chromatography. <i>Journal of Chromatography A</i> , 2000, 867, 131-142.	3.7	12
64	Novel insights in Al-MCM-41 precursor as adsorbent for regulated haloacetic acids and nitrate from water. <i>Environmental Science and Pollution Research</i> , 2012, 19, 4176-4183.	5.3	12
65	Productivity and nutritional and nutraceutical value of strawberry fruits (<i>Fragaria x ananassa</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Agriculture, 2021, 101, 1239-1246.	3.5	12
66	Direct synthesis of large-pore ethane-bridged mesoporous organosilica functionalized with carboxylic groups. <i>Chemical Communications</i> , 2009, , 4402.	4.1	11
67	Electrochemical detection of sulphonated azo dyes and their metal complexes in ion interaction chromatography. <i>Journal of Chromatography A</i> , 1998, 804, 241-248.	3.7	10
68	Copper-in-oil dissolution and copper-on-paper deposition behavior of mineral insulating oils. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 666-673.	2.9	10
69	Reactive Atmosphere Synthesis of Polymer-Derived SiO ₂ -O ₂ -C ₆₀ -N Aerogels and Their Cr Adsorption from Aqueous Solutions. <i>Advanced Engineering Materials</i> , 2018, 20, 1701130.	3.5	10
70	Towards the revision of the drinking water directive 98/83/EC. Development of a direct injection ion chromatographic-tandem mass spectrometric method for the monitoring of fifteen common and emerging disinfection by-products along the drinking water supply chain. <i>Journal of Chromatography A</i> , 2019, 1605, 360350.	3.7	10
71	Removal of Inorganic Contaminants from Aqueous Solutions: Evaluation of the Remediation Efficiency and of the Environmental Impact of a Zero-Valent Iron Substrate. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	9
72	A study of the mechanisms involved in the separation of metal ions with a mixed-bed stationary phase. <i>Chromatographia</i> , 2002, 55, 231-234.	1.3	8

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73	Influence of Foreign Ions on Determination of Ionic Ag in Water by Formation of Nanoparticles in a FIA-TLS System. <i>Analytical Letters</i> , 2011, 44, 2901-2910.	1.8	8
74	Simultaneous Determination of Passivator and Antioxidant Additives in Insulating Mineral Oils by High-Performance Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015, 38, 15-19.	1.0	8
75	Extraction of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls from Urban and Olive Mill Wastewaters Intended for Reuse in Agricultural Irrigation. <i>Journal of AOAC INTERNATIONAL</i> , 2020, 103, 382-391.	1.5	8
76	Behaviour of selenium and tellurium species and their determination by ion chromatography. <i>Chromatographia</i> , 1997, 46, 49-56.	1.3	7
77	Divalent pairing ion for ion-interaction chromatography of sulphonates and carboxylates. <i>Journal of Chromatography A</i> , 1997, 770, 51-57.	3.7	6
78	Sulphonated azoligand for metal ion determination in ion interaction chromatography. <i>Journal of Chromatography A</i> , 1999, 847, 233-244.	3.7	6
79	Liquid chromatographic methods for chloral hydrate determination. <i>Journal of Chromatography A</i> , 2001, 920, 283-289.	3.7	6
80	Copper dissolution and deposition tendency of insulating mineral oils related to dielectric properties of liquid and solid insulation. , 2011, , .		6
81	Chromatographic determination of biogenic amines in four typical Italian cheeses: correlations with processing and nutritional characteristics through a chemometric approach. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 4963-4968.	3.5	6
82	Characterization Techniques as Supporting Tools for the Interpretation of Biochar Adsorption Efficiency in Water Treatment: A Critical Review. <i>Molecules</i> , 2021, 26, 5063.	3.8	6
83	Novel approaches for the determination of biogenic amines in food samples. <i>Studia Universitatis Babeş-Bolyai Chemia</i> , 2017, 62, 103-122.	0.2	6
84	Encapsulation of the glyphosate herbicide in mesoporous and soil-affine sorbents for its prolonged release. <i>Chemical Engineering Journal</i> , 2022, 431, 134225.	12.7	6
85	Microwave-assisted extraction and gas chromatographic determination of thirty priority micropollutants in biowaste fraction derived from municipal solid waste for material recovery in the circular-economy approach. <i>Talanta</i> , 2022, 241, 123268.	5.5	6
86	Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls in Seawater, Sediment and Biota of Neritic Ecosystems: Occurrence and Partition Study in Southern Ligurian Sea. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2564.	2.5	6
87	Simultaneous determination of five common additives in insulating mineral oils by high-performance liquid chromatography with ultraviolet and coulometric detection. <i>Journal of Separation Science</i> , 2016, 39, 2955-2962.	2.5	5
88	Effect of treated wastewater on strawberry. , 0, 181, 338-345.		5
89	The Challenging Role of Chromatography in Environmental Problems. <i>Chromatographia</i> , 2011, 73, 15-28.	1.3	4
90	Pollution parameters and identification of performance indicators for wastewater treatment plant of Medea (Algeria). , 0, 65, 192-198.		4

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91	Acidic functional groups incorporated in ordered mesoporous materials: a comparison among different host matrices. <i>Studies in Surface Science and Catalysis</i> , 2008, , 67-72.	1.5	3
92	Determination of colloid silver in drinking water by flow injection analysis with TLS spectrometric UV detection. <i>Journal of Physics: Conference Series</i> , 2010, 214, 012119.	0.4	3
93	Optimization and Validation of a Method Based on QuEChERS Extraction and Gas Chromatographic-Mass Spectrometric Analysis for the Determination of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls in Olive Fruits Irrigated with Treated Wastewaters. <i>Separations</i> , 2022, 9, 82.	2.4	3
94	Removal of sugars from food and beverage wastewaters by amino-modified SBA-15. <i>Journal of Cleaner Production</i> , 2021, 324, 129236.	9.3	2
95	3D amperometry in the liquid chromatographic determination of trace pharmaceutical and herbicide emerging compounds. <i>International Journal of Environmental Analytical Chemistry</i> , 2018, 98, 1149-1159.	3.3	1
96	Theory of bulk and flow electrolysis and approach to parameter optimisation for chromatographic electrochemical detection. <i>Analisis - European Journal of Analytical Chemistry</i> , 1998, 26, 231-236.	0.4	0