Maria Fernanda Silva

List of Publications by Year
in descending order

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75 papers	3,254 citations	136950 32 h-index	155660 55 g-index
76 all docs	76 docs citations	76 times ranked	3669 citing authors

#	Article	IF	Citations
1	Natural designer solvents for greening analytical chemistry. TrAC - Trends in Analytical Chemistry, 2016, 76, 126-136.	11.4	282
2	Natural deep eutectic solvents-mediated extractions: The way forward for sustainable analytical developments. Analytica Chimica Acta, 2018, 1038, 1-10.	5.4	192
3	Novel approaches mediated by tailor-made green solvents for the extraction of phenolic compounds from agro-food industrial by-products. Food Chemistry, 2018, 239, 671-678.	8.2	173
4	Determination of melatonin in wine and plant extracts by capillary electrochromatography with immobilized carboxylic multiâ€walled carbon nanotubes as stationary phase. Electrophoresis, 2010, 31, 2242-2248.	2.4	150
5	Melatonin levels, determined by LC-ESI-MS/MS, fluctuate during the day/night cycle in Vitis vinifera cv Malbec: evidence of its antioxidant role in fruits. Journal of Pineal Research, 2011, 51, 226-232.	7.4	126
6	Coupling Cloud Point Extraction to Instrumental Detection Systems for Metal Analysis. Mikrochimica Acta, 2006, 155, 349-364.	5.0	117
7	Determination of heavy metals for the quality control in argentinian herbal medicines by ETAAS and ICP-OES. Food and Chemical Toxicology, 2007, 45, 1060-1064.	3.6	104
8	Determination of polybrominated diphenyl ethers in water and soil samples by cloud point extraction-ultrasound-assisted back-extraction-gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2009, 1216, 4339-4346.	3.7	94
9	A Greener Approach to Prepare Natural Deep Eutectic Solvents. ChemistrySelect, 2018, 3, 6122-6125.	1.5	92
10	Melatonin in Arabidopsis thaliana acts as plant growth regulator at low concentrations and preserves seed viability at high concentrations. Plant Physiology and Biochemistry, 2015, 94, 191-196.	5.8	90
11	Adsorption of proteins to thin-films of PDMS and its effect on the adhesion of human endothelial cells. RSC Advances, 2011, 1, 706.	3.6	79
12	Taking the leap between analytical chemistry and artificial intelligence: A tutorial review. Analytica Chimica Acta, 2021, 1161, 338403.	5.4	75
13	Simultaneous determination of dextromethorphan, diphenhydramine and phenylephrine in expectorant and decongestant syrups by capillary electrophoresis. Journal of Pharmaceutical and Biomedical Analysis, 2002, 30, 791-799.	2.8	73
14	Volatile organic compounds characterized from grapevine (Vitis vinifera L. cv. Malbec) berries increase at pre-harvest and in response to UV-B radiation. Phytochemistry, 2013, 96, 148-157.	2.9	71
15	Monitoring melatonin and its isomer in Vitis vinifera cv. Malbec by UHPLCâ€MS/MS from grape to bottle. Journal of Pineal Research, 2012, 52, 349-355.	7.4	70
16	Optimization of ultrasound assisted-emulsification-dispersive liquidâ€“liquid microextraction by experimental design methodologies for the determination of sulfur compounds in wines by gas chromatographyâ€“mass spectrometry. Analytica Chimica Acta, 2010, 683, 126-135.	5.4	68
17	Enhanced electrochemical detection of quercetin by Natural Deep Eutectic Solvents. Analytica Chimica Acta, 2016, 936, 91-96.	5.4	67
18	Monitoring the elimination of gadolinium-based pharmaceuticals. Cloud point preconcentration and spectrophotometric determination of Gd(iii)-2-(3,5-dichloro-2-pyridylazo)-5-dimethylaminophenol in urine. Analyst, The, 1998, 123, 1803-1807.	3.5	59

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19	Cloud point extraction of vanadium in parenteral solutions using a nonionic surfactant (PONPE 5.0) and determination by flow injection-inductively coupled plasma optical emission spectrometry. Talanta, 2002, 58, 619-627.	5.5	58
20	Screen-printed electrodes modified with carbon nanotubes or graphene for simultaneous determination of melatonin and serotonin. Mikrochimica Acta, 2015, 182, 1925-1931.	5.0	58
21	Sustainable extraction bioactive compounds procedures in medicinal plants based on the principles of green analytical chemistry: A review. Microchemical Journal, 2022, 175, 107184.	4.5	54
22	On-line cloud point preconcentration and determination of gadolinium in urine using flow injection inductively coupled plasma optical emission spectrometry. Journal of Analytical Atomic Spectrometry, 2002, 17, 530-533.	3.0	53
23	Green analytical chemistry metrics: Towards a sustainable phenolics extraction from medicinal plants. Microchemical Journal, 2018, 141, 438-443.	4.5	48
24	Structural analysis of natural deep eutectic solvents. Theoretical and experimental study. Microchemical Journal, 2018, 143, 252-258.	4.5	47
25	On-line complexation/cloud point preconcentration for the sensitive determination of dysprosium in urine by flow injection inductively coupled plasmaâ€“optical emission spectrometry. Analytical and Bioanalytical Chemistry, 2003, 375, 270-274.	3.7	46
26	Anthocyanins as markers for the classification of Argentinean wines according to botanical and geographical origin. Chemometric modeling of liquid chromatographyâ€“mass spectrometry data. Food Chemistry, 2015, 175, 174-180.	8.2	46
27	Analytical tools for elucidating the biological role of melatonin in plants by LCâ€MS/MS. Electrophoresis, 2013, 34, 1749-1756.	2.4	44
28	Comparative study between capillary electrophoresis and high performance liquid chromatography in â€˜guaranaâ€™ based phytopharmaceuticals. Journal of Pharmaceutical and Biomedical Analysis, 2005, 36, 989-994.	2.8	41
29	Metal content monitoring in Hypericum perforatum pharmaceutical derivatives by atomic absorption and emission spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2004, 34, 569-576.	2.8	37
30	Microchip electrophoresisâ€single wall carbon nanotube pressâ€transferred electrodes for fast and reliable electrochemical sensing of melatonin and its precursors. Electrophoresis, 2015, 36, 1880-1885.	2.4	37
31	Simultaneous determination of dysprosium and iron in urine by capillary zone electrophoresis coupled to cloud point extraction. Journal of Pharmaceutical and Biomedical Analysis, 2004, 36, 721-727.	2.8	36
32	Determination of Quercetin, Gallic Acid, Resveratrol, Catechin and Malvidin in Brazilian Wines Elaborated in the Vale do SÃ£o Francisco Using Liquidâ€“Liquid Extraction Assisted by Ultrasound and GC-MS. Food Analytical Methods, 2013, 6, 963-968.	2.6	35
33	Development and validation of a capillary electrophoresis method for the determination of codeine, diphenhydramine, ephedrine and noscapine in pharmaceuticals. Il Farmaco, 2005, 60, 85-90.	0.9	32
34	NADES-mediated folk plant extracts as novel antifungal agents against Candida albicans. Journal of Pharmaceutical and Biomedical Analysis, 2019, 167, 15-20.	2.8	32
35	Analytical characterization of wine and its precursors by capillary electrophoresis. Electrophoresis, 2012, 33, 2240-2252.	2.4	28
36	Olive Oil by Capillary Electrophoresis: Characterization and Genuineness. Journal of Agricultural and Food Chemistry, 2013, 61, 4477-4496.	5.2	28

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37	A natural deep eutectic solvent as a novel dispersive solvent in dispersive liquid-liquid microextraction based on solidification of floating organic droplet for the determination of pesticide residues. Analytical and Bioanalytical Chemistry, 2021, 413, 6413-6424.	3.7	28
38	Cloud point preconcentration prior to capillary zone electrophoresis: Simultaneous determination of platinum and palladium at trace levels. Electrophoresis, 2005, 26, 3500-3506.	2.4	27
39	Direct analysis of nectar and floral volatile organic compounds in hybrid onions by HS-SPME/GCâ€“MS: Relationship with pollination and seed production. Microchemical Journal, 2015, 122, 110-118.	4.5	24
40	Solid phase extraction/cyclodextrin-modified micellar electrokinetic chromatography for the analysis of melatonin and related indole compounds in plants. Microchemical Journal, 2015, 123, 22-27.	4.5	23
41	Microchip electrophoresis for wine analysis. Analytical and Bioanalytical Chemistry, 2016, 408, 8643-8653.	3.7	22
42	Laser-engraved ammonia sensor integrating a natural deep eutectic solvent. Microchemical Journal, 2020, 157, 105067.	4.5	22
43	Nectar and Flower Traits of Different Onion Male Sterile Lines Related to Pollination Efficiency and Seed Yield of F1 Hybrids. Journal of Economic Entomology, 2013, 106, 1386-1394.	1.8	21
44	Pencil graphite electrodes for improved electrochemical detection of oleuropein by the combination of Natural Deep Eutectic Solvents and graphene oxide. Electrophoresis, 2017, 38, 2704-2711.	2.4	20
45	Carbon tape as a convenient electrode material for electrochemical paper-based microfluidic devices (ePADs). Analytical Methods, 2018, 10, 4020-4027.	2.7	20
46	Highâ€throughput determination of phenolic compounds in virgin olive oil using dispersive liquidâ€liquid microextractionâ€•capillary zone electrophoresis. Electrophoresis, 2013, 34, 1836-1843.	2.4	19
47	Matrix solid-phase dispersion: a simple and fast technique for the determination of phenolic compounds in olive oil by liquid chromatography. Analytical Methods, 2014, 6, 8986-8995.	2.7	19
48	Environmental monitoring of phenolic pollutants in water by cloud point extraction prior to micellar electrokinetic chromatography. Analytical and Bioanalytical Chemistry, 2009, 394, 567-573.	3.7	16
49	Phenolic Compounds and Antioxidant Capacity of Monovarietal Olive Oils Produced in Argentina. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 2021-2033.	1.9	16
50	Native Fluorescent Natural Deep Eutectic Solvents for Green Sensing Applications: Curcuminoids in Curcuma longa Powder. ACS Sustainable Chemistry and Engineering, 2021, 9, 5405-5411.	6.7	16
51	Onâ€line solid phase extraction CZE for the simultaneous determination of lanthanum and gadolinium at picogram per liter levels. Electrophoresis, 2009, 30, 2681-2687.	2.4	14
52	Preconcentration of seleno-amino acids on a XAD resin and determination in regional olive oils by SPE UPLCâ€“ESI-MS/MS. Food Chemistry, 2014, 159, 407-413.	8.2	14
53	Phenolic characterization and antimicrobial activity of folk medicinal plant extracts for their applications in olive production. Electrophoresis, 2014, 35, 1709-1718.	2.4	14
54	Determination of seleno-amino acids bound to proteins in extra virgin olive oils. Food Chemistry, 2016, 197, 400-405.	8.2	14

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55	Determination of ellagic acid by capillary electrophoresis in Argentinian wines. Electrophoresis, 2018, 39, 1621-1627.	2.4	14
56	Geographical characterization of South America wines based on their phenolic and melatonin composition: An exploratory analysis. Microchemical Journal, 2020, 158, 105240.	4.5	14
57	Water stress and abscisic acid exogenous supply produce differential enhancements in the concentration of selected phenolic compounds in Cabernet Sauvignon. Journal of Berry Research, 2012, 2, 33-44.	1.4	12
58	NADES-modified voltammetric sensors and information fusion for detection of honey heat alteration. Food Control, 2022, 140, 109144.	5.5	11
59	Separation of nonylphenol ethoxylates and nonylphenol by non-aqueous capillary electrophoresis. Journal of Chromatography A, 2006, 1116, 277-285.	3.7	10
60	Volatile Profile Characterization of Extra Virgin Olive Oils from Argentina by HS-SPME/GC-MS and Multivariate Pattern Recognition Tools. Food Analytical Methods, 2014, 7, 2122-2136.	2.6	10
61	Exploration of liquid chromatographic-diode array data for Argentinean wines by extended multivariate curve resolution. Chemometrics and Intelligent Laboratory Systems, 2014, 132, 1-7.	3.5	9
62	Determination of alkaloids in onion nectar by micellar electrokinetic chromatography. Electrophoresis, 2016, 37, 1909-1915.	2.4	9
63	Paper microzone plates integrating Natural Deep Eutectic Solvents: Total phenolic compounds and antioxidant capacity as performed by nature. Microchemical Journal, 2020, 158, 105296.	4.5	9
64	Doehlert matrix for the optimization of ultrasound dispersive liquidâ€“liquid microextraction of melatonin in Argentine and Brazilian wine samples. Microchemical Journal, 2020, 159, 105313.	4.5	8
65	Chemometric and green metric strategies for sustainable analytical methods: phenolic compounds in lettuce-NADES extracts. Analytical Methods, 2021, 13, 1261-1268.	2.7	8
66	Onion Hybrid Seed Production: Relation with Nectar Composition and Flower Traits. Journal of Economic Entomology, 2018, 111, 1023-1029.	1.8	7
67	Larrea divaricata volatilome and antimicrobial activity against Monilinia fructicola. Microchemical Journal, 2018, 142, 1-8.	4.5	7
68	CO₂reduction using paper-derived carbon electrodes modified with copper nanoparticles. RSC Advances, 2019, 9, 33657-33663.	3.6	7
69	Grapevine tissues and phenology differentially affect soluble carbohydrates determination by capillary electrophoresis. Plant Physiology and Biochemistry, 2017, 118, 394-399.	5.8	6
70	Risk Assessment on Irrigation of Vitis vinifera L. cv Malbec with Hg Contaminated Waters. Environmental Science & Technology, 2013, 47, 6606-6613.	10.0	5
71	Onâ€Site Preparation of Natural Deep Eutectic Solvents Using Solar Energy. ChemistrySelect, 2022, 7, .	1.5	5
72	Microchip Electrophoresis Tools for the Analysis of Small Molecules. Methods in Molecular Biology, 2019, 1906, 197-206.	0.9	3

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73	Brand new Dual Absorption and Emission Smartphone-Based Spectrophotometer (DAESS) for the study of the role of water in the preparation of Natural Deep Eutectic Solvents. Analytica Chimica Acta, 2021, 1179, 338831.	5.4	3
74	Green Chemistry Metrics. , 2021, , 825-833.		2
75	Analytical Trends for the Determination of Melatonin and Precursors in Plants. , 2016, , 31-46.		0