Achille Cappiello

List of Publications by Year
in descending order

67 papers	2,573 citations	201385 27 h-index	197535 49 g-index
70 all docs	70 docs citations	70 times ranked	2451 citing authors

#	Article	IF	Citations
1	An overview of matrix effects in liquid chromatographyâ€“mass spectrometry. Mass Spectrometry Reviews, 2011, 30, 491-509.	2.8	601
2	Overcoming Matrix Effects in Liquid Chromatographyâˆ'Mass Spectrometry. Analytical Chemistry, 2008, 80, 9343-9348.	3.2	228
3	Trace Level Determination of Organophosphorus Pesticides in Water with the New Direct-Electron Ionization LC/MS Interface. Analytical Chemistry, 2002, 74, 3547-3554.	3.2	136
4	Determination of Acidic and Basic/Neutral Pesticides in Water with a New Microliter Flow Rate LC/MS Particle Beam Interface. Analytical Chemistry, 1994, 66, 1416-1423.	3.2	76
5	Micro flow rate particle beam interface for capillary liquid chromatography/mass spectrometry. Analytical Chemistry, 1993, 65, 1281-1287.	3.2	75
6	MATRIX EFFECTS IN LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY. Journal of Liquid Chromatography and Related Technologies, 2010, 33, 1067-1081.	0.5	54
7	Variable-Gradient Generator for Micro- and Nano-HPLC. Analytical Chemistry, 2003, 75, 1173-1179.	3.2	50
8	A simple approach for coupling liquid chromatography and electron ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2002, 13, 265-273.	1.2	48
9	Nano-high-performance liquid chromatographyâ€“electron ionization mass spectrometry approach for environmental analysis. Analytica Chimica Acta, 2003, 493, 125-136.	2.6	47
10	LCâˆ'MS/MS Analysis of Peptides with Methanol as Organic Modifier:Â Improved Limits of Detection. Analytical Chemistry, 2004, 76, 7028-7038.	3.2	47
11	New trends in the application of electron ionization to liquid chromatography?mass spectrometry interfacing. Mass Spectrometry Reviews, 2001, 20, 88-104.	2.8	46
12	Is particle beam an up-to-date LC-MS interface? State of the art and perspectives. , 1996, 15, 283-296.		44
13	Electron ionization in LC-MS: recent developments and applications of the direct-EI LC-MS interface. Analytical and Bioanalytical Chemistry, 2011, 399, 2683-2693.	1.9	44
14	Directâ€EI in LCâ€“MS: Towards a universal detector for smallâ€molecule applications. Mass Spectrometry Reviews, 2011, 30, 1242-1255.	2.8	43
15	Profiling of non-esterified fatty acids in human plasma using liquid chromatography-electron ionization mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 400, 2933-2941.	1.9	38
16	MASS SPECTROMETRY ANALYSIS OF DRUGS OF ABUSE: CHALLENGES AND EMERGING STRATEGIES. Mass Spectrometry Reviews, 2020, 39, 703-744.	2.8	38
17	Enhanced detection sensitivity by large volume injection in reversed-phase micro-high-performance liquid chromatography. Journal of Chromatography A, 1996, 742, 69-78.	1.8	36
18	Analysis of Thermally Unstable Compounds by a Liquid Chromatography/Mass Spectrometry Particle Beam Interface with a Modified Ion Source. Analytical Chemistry, 1995, 67, 412-419.	3.2	35

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19	Liquid chromatographicâ€“mass spectrometric determination of phenolic compounds using a capillary-scale particle beam interface. Journal of Chromatography A, 1999, 855, 515-527.	1.8	35
20	Atmospheric Pressure Vaporization Mechanism for Coupling a Liquid Phase with Electron Ionization Mass Spectrometry. Analytical Chemistry, 2017, 89, 2049-2056.	3.2	35
21	Large volume injection of acidic pesticides by reversed-phase micro high-performance liquid chromatography. Journal of Chromatography A, 1997, 768, 215-222.	1.8	33
22	Evaluation of a liquid electron ionization liquid chromatographyâ€“mass spectrometry interface. Journal of Chromatography A, 2019, 1591, 120-130.	1.8	33
23	Electron capture ionization of explosives with a microflow rate particle beam interface. Journal of the American Society for Mass Spectrometry, 1996, 7, 753-758.	1.2	31
24	Capillary-scale particle-beam liquid chromatography/mass spectrometry interface: Can electron ionization sustain the competition?. Journal of the American Society for Mass Spectrometry, 1998, 9, 993-1001.	1.2	31
25	An Efficient Liquid Chromatographyâ^'Mass Spectrometry Interface for the Generation of Electron Ionization Spectra. Analytical Chemistry, 2000, 72, 3841-3846.	3.2	31
26	Determination of halocarbons in air by gas chromatography-high resolution mass spectrometry. Analytical Chemistry, 1981, 53, 798-801.	3.2	30
27	Determination of Endocrine Disrupting Compounds in Marine Water by Nanoliquid Chromatography/Direct-Electron Ionization Mass Spectrometry. Analytical Chemistry, 2005, 77, 7654-7661.	3.2	30
28	Evaluation of the Performance of a Microflow Rate LC/MS Particle Beam Interface. Analytical Chemistry, 1994, 66, 3970-3976.	3.2	29
29	New Approach for the Analysis of Acidic Pesticides in Water by LC/MS with a Particle Beam Interface. Environmental Science & Technology, 1995, 29, 2295-2300.	4.6	29
30	Liquid chromatography-electron ionization mass spectrometry: Fields of application and evaluation of the performance of a Direct-EI interface. Mass Spectrometry Reviews, 2005, 24, 978-989.	2.8	29
31	Determination of benzodiazepines in beverages using green extraction methods and capillary HPLC-UV detection. Journal of Pharmaceutical and Biomedical Analysis, 2018, 154, 492-500.	1.4	28
32	Use of Nonvolatile Buffers in Liquid Chromatography/Mass Spectrometry:Â Advantages of Capillary-Scale Particle Beam Interfacing. Analytical Chemistry, 1997, 69, 5136-5141.	3.2	27
33	Fate of Enrofloxacin in Swine Sewage. Journal of Agricultural and Food Chemistry, 2004, 52, 3473-3477.	2.4	26
34	Analysis of coumarins by micro high-performance liquid chromatography-mass spectrometry with a particle beam interface. Journal of the American Society for Mass Spectrometry, 1995, 6, 132-139.	1.2	25
35	Rapid LCâ€MS method for the detection of common fragrances in personal care products without sample preparation. Electrophoresis, 2014, 35, 1339-1345.	1.3	25
36	The history of electron ionization in LC-MS, from the early days to modern technologies: A review. Analytica Chimica Acta, 2021, 1167, 338350.	2.6	25

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37	Liquid chromatography-electron ionization tandem mass spectrometry with the Direct-EI interface in the fast determination of diazepam and flunitrazepam in alcoholic beverages. Electrophoresis, 2016, 37, 1048-1054.	1.3	24
38	Micro-SPE Method for Sample Introduction in Capillary HPLC/MS. Analytical Chemistry, 2001, 73, 298-302.	3.2	22
39	New approach to the characterization of pyrolysis coal products by gas chromatography-mass spectrometry. Journal of Chromatography A, 1996, 736, 185-194.	1.8	20
40	Application of nano-FIA-Direct-EI-MS to determine diethylene glycol in produced formation water discharges and seawater samples. Chemosphere, 2007, 69, 554-560.	4.2	18
41	A new liquid chromatographyâ€“mass spectrometry approach for generic screening and quantitation of potential genotoxic alkylation compounds without derivatization. Journal of Chromatography A, 2012, 1255, 286-290.	1.8	18
42	Condensed Phase Membrane Introduction Mass Spectrometry with Direct Electron Ionization: On-line Measurement of PAHs in Complex Aqueous Samples. Journal of the American Society for Mass Spectrometry, 2016, 27, 301-308.	1.2	17
43	Peer Reviewed: Electron Ionization for LC/MS. Analytical Chemistry, 2003, 75, 496 A-503 A.	3.2	15
44	Application of Liquid Chromatography-Direct-Electron Ionization-MS in an in Vitro Dermal Absorption Study: Quantitative Determination of trans-Cinnamaldehyde. Analytical Chemistry, 2011, 83, 8537-8542.	3.2	15
45	Direct Infusion Resonance-Enhanced Multiphoton Ionization Mass Spectrometry of Liquid Samples under Vacuum Conditions. Analytical Chemistry, 2017, 89, 10917-10923.	3.2	14
46	Mass Spectrometry Based Approach for Organic Synthesis Monitoring. Analytical Chemistry, 2019, 91, 11916-11922.	3.2	14
47	Direct Coupling of Bio-SPME to Liquid Electron Ionization-MS/MS via a Modified Microfluidic Open Interface. Journal of the American Society for Mass Spectrometry, 2021, 32, 262-269.	1.2	14
48	Flow injection of liquid samples to a mass spectrometer with ionization under vacuum conditions: a combined ion source for single-photon and electron impact ionization. Analytical and Bioanalytical Chemistry, 2013, 405, 6953-6957.	1.9	12
49	Boosting the Detection Potential of Liquid Chromatography-Electron Ionization Mass Spectrometry Using a Ceramic Coated Ion Source. Journal of the American Society for Mass Spectrometry, 2016, 27, 153-160.	1.2	12
50	MS-Based Analytical Techniques: Advances in Spray-Based Methods and EI-LC-MS Applications. Journal of Analytical Methods in Chemistry, 2018, 2018, 1-24.	0.7	12
51	Structural modifications and adsorption capability of C18-silica/binary solvent interphases studied by EPR and RP-HPLC. Journal of Colloid and Interface Science, 2010, 352, 512-519.	5.0	11
52	Sol-gel coated ion sources for liquid chromatography-direct electron ionization mass spectrometry. Analytica Chimica Acta, 2017, 978, 35-41.	2.6	11
53	Rapid, hydrolysis-free, dilute-and-shoot method for the determination of buprenorphine, norbuprenorphine and their glucuronides in urine samples using UHPLC-MS/MS. Journal of Pharmaceutical and Biomedical Analysis, 2019, 166, 236-243.	1.4	11
54	Identification of Levoglucosan and Related Steroisomers in Fog Water as a Biomass Combustion Tracer by ESI-MS/MS. Annali Di Chimica, 2004, 94, 911-919.	0.6	10

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55	A Fast and Effective Method for Packing Nano-LC Columns with Solid-Core Nano Particles Based on the Synergic Effect of Temperature, Slurry Composition, Sonication and Pressure. Chromatographia, 2013, 76, 1079-1086.	0.7	10
56	Adsorption of Pure and Mixed Solvent Solutions of Spin Probes onto Stationary Phases. Journal of Physical Chemistry B, 2006, 110, 10421-10429.	1.2	9
57	Electron Ionization LC-MS. Comprehensive Analytical Chemistry, 2018, 79, 1-28.	0.7	9
58	Determination of Natural Pyrethrins by Liquid Chromatographyâ€Electron Ionisationâ€Mass Spectrometry. Phytochemical Analysis, 2012, 23, 191-196.	1.2	7
59	Inâ€depth performance investigation of a nanoâ€LC gradient generator. Electrophoresis, 2012, 33, 575-582.	1.3	7
60	Comparison of Solid-Phase Extraction and Micro-Solid-Phase Extraction for Liquid Chromatography/Mass Spectrometry Analysis of Pesticides in Water Samples. Journal of AOAC INTERNATIONAL, 2003, 86, 941-946.	0.7	6
61	An SPE Method for the Concurrent Extraction of Organochlorine and Phenoxy Acidic Pesticides in River Water. Chromatographia, 2011, 73, 691-699.	0.7	6
62	Temperature effects on nanoâ€<scp>LC</scp> column packing technology. Journal of Separation Science, 2012, 35, 1589-1595.	1.3	6
63	Tyrosol and Hydroxytyrosol Determination in Extra Virgin Olive Oil with Direct Liquid Electron Ionization-Tandem Mass Spectrometry. Separations, 2021, 8, 173.	1.1	6
64	Study on the maltooligosaccharide composition of mucilage samples collected along the northern Adriatic coast. Carbohydrate Research, 2009, 344, 120-126.	1.1	5
65	Microfluidic water-assisted trap focusing method for ultra-large volume injection in reversed-phase nano-liquid chromatography coupled to electron ionization tandem-mass spectrometry. Journal of Chromatography A, 2020, 1627, 461421.	1.8	5
66	Liquid Chromatographyâ€“Electron Capture Negative Ionizationâ€“Tandem Mass Spectrometry Detection of Pesticides in a Commercial Formulation. Journal of the American Society for Mass Spectrometry, 2022, 33, 141-148.	1.2	4
67	Maltooligosaccharides in the northwestern Adriatic Sea. Chemistry and Ecology, 2016, 32, 88-102.	0.6	2