Marcos N Eberlin

List of Publications by Year
in descending order

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735 papers	24,657 citations	10389 72 h-index	26613 107 g-index
757 all docs	757 docs citations	757 times ranked	24697 citing authors

#	Article	IF	Citations
1	Definitions of terms relating to mass spectrometry (IUPAC Recommendations 2013). Pure and Applied Chemistry, 2013, 85, 1515-1609.	1.9	305
2	Ambient mass spectrometry: bringing MS into the â€œreal worldâ€• Analytical and Bioanalytical Chemistry, 2010, 398, 265-294.	3.7	301
3	Desorption sonic spray ionization for (high) voltage-free ambient mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 2901-2905.	1.5	275
4	Atmospheric Pressure Photoionization Mass Spectrometry. Ionization Mechanism and the Effect of Solvent on the Ionization of Naphthalenes. Analytical Chemistry, 2002, 74, 5470-5479.	6.5	273
5	Probing the Mechanism of the Baylisâ€“Hillman Reaction by Electrospray Ionization Mass and Tandem Mass Spectrometry. Angewandte Chemie - International Edition, 2004, 43, 4330-4333.	13.8	264
6	Phenolic Antioxidants Identified by ESI-MS from Yerba MatÃ© (Ilex paraguariensis) and Green Tea (Camelia sinensis) Extracts. Molecules, 2007, 12, 423-432.	3.8	248
7	Probing the Mechanism of the Heck Reaction with Arene Diazonium Salts by Electrospray Mass and Tandem Mass Spectrometry. Angewandte Chemie - International Edition, 2004, 43, 2514-2518.	13.8	243
8	Gaseous Supramolecules of Imidazolium Ionic Liquids: ?Magic? Numbers and Intrinsic Strengths of Hydrogen Bonds. Chemistry - A European Journal, 2004, 10, 6187-6193.	3.3	239
9	Chiroselective Self-Directed Octamerization of Serine:Â Implications for Homochirogenesis. Analytical Chemistry, 2001, 73, 3646-3655.	6.5	236
10	Chemical characterization and antioxidant potential of Chilean chia seeds and oil (Salvia hispanica L.). LWT - Food Science and Technology, 2014, 59, 1304-1310.	5.2	197
11	Jaboticaba peel: Antioxidant compounds, antiproliferative and antimutagenic activities. Food Research International, 2012, 49, 596-603.	6.2	188
12	Electrospray Ionization Mass Spectrometry: A Major Tool to Investigate Reaction Mechanisms in Both Solution and the Gas Phase. European Journal of Mass Spectrometry, 2007, 13, 19-28.	1.0	182
13	Standard methods for Apis mellifera propolis research. Journal of Apicultural Research, 2019, 58, 1-49.	1.5	173
14	Oil Wastes as Unconventional Substrates for Rhamnolipid Biosurfactant Production by Pseudomonas aeruginosa LBI. Biotechnology Progress, 2005, 21, 1562-1566.	2.6	165
15	Proteomic analysis of dorsolateral prefrontal cortex indicates the involvement of cytoskeleton, oligodendrocyte, energy metabolism and new potential markers in schizophrenia. Journal of Psychiatric Research, 2009, 43, 978-986.	3.1	165
16	Easy Ambient Sonic-Spray Ionization Mass Spectrometry Combined with Thin-Layer Chromatography. Analytical Chemistry, 2008, 80, 2744-2750.	6.5	161
17	Easy Ambient Sonic-Spray Ionization-Membrane Interface Mass Spectrometry for Direct Analysis of Solution Constituents. Analytical Chemistry, 2008, 80, 898-903.	6.5	158
18	Production and structural characterization of surfactin (C14/Leu7) produced by Bacillus subtilis isolate LSFM-05 grown on raw glycerol from the biodiesel industry. Process Biochemistry, 2011, 46, 1951-1957.	3.7	152

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19	Synthesis and Characterization of a Metal Complex Containing Naringin and Cu, and its Antioxidant, Antimicrobial, Antiinflammatory and Tumor Cell Cytotoxicity. Molecules, 2007, 12, 1352-1366.	3.8	151
20	Characterization of Vegetable Oils by Electrospray Ionization Mass Spectrometry Fingerprinting:Â Classification, Quality, Adulteration, and Aging. Analytical Chemistry, 2005, 77, 7429-7433.	6.5	149
21	Novel Natural Peptide Substrates for Endopeptidase 24.15, Neurolysin, and Angiotensin-converting Enzyme. Journal of Biological Chemistry, 2003, 278, 8547-8555.	3.4	142
22	Antioxidant activity, phenolics and UPLCâ€“ESI(â€“)â€“MS of extracts from different tropical fruits parts and processed peels. Food Research International, 2015, 77, 392-399.	6.2	134
23	Determination of free, esterified, glycosylated and insoluble-bound phenolics composition in the edible part of araticum fruit (Annona crassiflora Mart.) and its by-products by HPLC-ESI-MS/MS. Food Chemistry, 2018, 245, 738-749.	8.2	128
24	Venturi Easy Ambient Sonic-Spray Ionization. Analytical Chemistry, 2011, 83, 1375-1380.	6.5	125
25	Cadinane sesquiterpenoids of Phomopsis cassiae, an endophytic fungus associated with Cassia spectabilis (Leguminosae). Phytochemistry, 2006, 67, 1964-1969.	2.9	122
26	Determination of the phenolic composition from Brazilian tropical fruits by UHPLCâ€“MS/MS. Food Chemistry, 2015, 180, 280-287.	8.2	122
27	Advanced Oxidation of Caffeine in Water:â€‰ On-Line and Real-Time Monitoring by Electrospray Ionization Mass Spectrometry. Environmental Science & Technology, 2005, 39, 5982-5988.	10.0	121
28	Purification and characterization of a keratinolytic metalloprotease from Chryseobacterium sp. kr6. Journal of Biotechnology, 2007, 128, 693-703.	3.8	118
29	Chiral Transmission between Amino Acids: Chirally Selective Amino Acid Substitution in the Serine Octamer as a Possible Step in Homochirogenesis. Angewandte Chemie - International Edition, 2002, 41, 1721-1724.	13.8	117
30	Electrospray ionization mass spectrometry fingerprinting of propolis. Analyst, The, 2004, 129, 739.	3.5	117
31	Phytochemical markers of different types of red propolis. Food Chemistry, 2014, 146, 174-180.	8.2	117
32	The Methylerythritol Phosphate Pathway Is Functionally Active in All Intraerythrocytic Stages of Plasmodium falciparum. Journal of Biological Chemistry, 2004, 279, 51749-51759.	3.4	116
33	Ixodidin, a novel antimicrobial peptide from the hemocytes of the cattle tick Boophilus microplus with inhibitory activity against serine proteinases. Peptides, 2006, 27, 667-674.	2.4	116
34	The Bridge Connecting Gasâ€Phase and Solution Chemistries. Angewandte Chemie - International Edition, 2011, 50, 5261-5263.	13.8	116
35	Production of Pseudomonas aeruginosa LBI rhamnolipids following growth on Brazilian native oils. Process Biochemistry, 2006, 41, 483-488.	3.7	115
36	Antioxidant Potential of Rat Plasma by Administration of Freeze-Dried Jaboticaba Peel (Myrciaria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	5.2	114

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37	Electrospray mass and tandem mass spectrometry identification of ozone oxidation products of amino acids and small peptides. Journal of the American Society for Mass Spectrometry, 2000, 11, 526-535.	2.8	110
38	Triple-stage pentaquadrupole (QqQqQ) mass spectrometry and ion/molecule reactions. Mass Spectrometry Reviews, 1997, 16, 113-144.	5.4	109
39	Single embryo and oocyte lipid fingerprinting by mass spectrometry. Journal of Lipid Research, 2010, 51, 1218-1227.	4.2	109
40	Clonostachys rosea BAFC3874 as a Sclerotinia sclerotiorum antagonist: mechanisms involved and potential as a biocontrol agent. Journal of Applied Microbiology, 2011, 110, 1177-1186.	3.1	109
41	The Mechanism of the Stille Reaction Investigated by Electrospray Ionization Mass Spectrometry. Journal of Organic Chemistry, 2007, 72, 5809-5812.	3.2	106
42	Further Bioactive Piperidine Alkaloids from the Flowers and Green Fruits ofCassiaspectabilis. Journal of Natural Products, 2004, 67, 908-910.	3.0	104
43	The Threeâ€Component Biginelli Reaction: A Combined Experimental and Theoretical Mechanistic Investigation. Chemistry - A European Journal, 2009, 15, 9799-9804.	3.3	103
44	Protomers: formation, separation and characterization via travelling wave ion mobility mass spectrometry. Journal of Mass Spectrometry, 2012, 47, 712-719.	1.6	102
45	1-n-Butyl-3-methylimidazolium tetrachloro-indate (BMIâ‹…InCl4BMIâ‹…InCl4) as a media for the synthesis of biodiesel from vegetable oils. Journal of Catalysis, 2007, 249, 154-161.	6.2	100
46	Dualistic Nature of the Mechanism of the Moritaâ^'Baylisâ^'Hillman Reaction Probed by Electrospray Ionization Mass Spectrometry. Journal of Organic Chemistry, 2009, 74, 3031-3037.	3.2	99
47	Phosphatidylcholine and Sphingomyelin Profiles Vary in Bos taurus indicus and Bos taurus taurus In Vitro- and In Vivo-Produced Blastocysts1. Biology of Reproduction, 2012, 87, 130.	2.7	98
48	Electrospray ionization mass spectrometry fingerprinting of beer. Analyst, The, 2005, 130, 884.	3.5	97
49	Petroleomics by EASI(Â±) FT-ICR MS. Analytical Chemistry, 2010, 82, 3990-3996.	6.5	97
50	A chitin-like component in Aedes aegypti eggshells, eggs and ovaries. Insect Biochemistry and Molecular Biology, 2007, 37, 1249-1261.	2.7	94
51	Electrospray ionization mass spectrometry fingerprinting of whisky: immediate proof of origin and authenticity. Analyst, The, 2005, 130, 890.	3.5	93
52	Fast Multidimensional (3D and 4D) MS2and MS3Scans in a High-Transmission Pentaquadrupole Mass Spectrometer. Analytical Chemistry, 1996, 68, 1328-1334.	6.5	92
53	Câ^'H Functionalization of 1,4-Naphthoquinone by Oxidative Coupling with Anilines in the Presence of a Catalytic Quantity of Copper(II) Acetate. Journal of Organic Chemistry, 2011, 76, 5264-5273.	3.2	89
54	Polycyclic aromatic hydrocarbons (PAHs) in street dust of Rio de Janeiro and NiterÃ³i, Brazil: Particle size distribution, sources and cancer risk assessment. Science of the Total Environment, 2017, 599-600, 305-313.	8.0	88

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55	Volatile compounds from pitanga fruit (Eugenia uniflora L.). Food Chemistry, 2006, 99, 1-5.	8.2	87
56	HPLC Separation and Determination of 12 Cholesterol Oxidation Products in Fish:Â Comparative Study of RI, UV, and APCI-MS Detectors. Journal of Agricultural and Food Chemistry, 2006, 54, 4107-4113.	5.2	86
57	On the Species Involved in the Vaporization of Imidazolium Ionic Liquids in a Steam-Distillation-Like Process. Angewandte Chemie - International Edition, 2006, 45, 7251-7254.	13.8	85
58	Fingerprinting and aging of ink by easy ambient sonic-spray ionization mass spectrometry. Analyst, The, 2010, 135, 745.	3.5	85
59	Antioxidant activity of Annona crassiflora: Characterization of major components by electrospray ionization mass spectrometry. Food Chemistry, 2007, 104, 1048-1054.	8.2	84
60	Instantaneous chemical profiles of banknotes by ambient mass spectrometry. Analyst, The, 2010, 135, 2533.	3.5	84
61	Polar Acetalization and Transacetalization in the Gas Phase:â€‰ The Eberlin Reaction. Chemical Reviews, 2006, 106, 188-211.	47.7	83
62	Poly (ethylene terephthalate) thermo-mechanical and thermo-oxidative degradation mechanisms. Polymer Degradation and Stability, 2009, 94, 1849-1859.	5.8	82
63	Electrophilic Aromatic Nitration:Â Understanding Its Mechanism and Substituent Effectsâ€. Journal of Organic Chemistry, 2006, 71, 6192-6203.	3.2	81
64	Arabica and Robusta Coffees: Identification of Major Polar Compounds and Quantification of Blends by Direct-Infusion Electrospray Ionizationâ€“Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2012, 60, 4253-4258.	5.2	80
65	Short communication: Identification of subclinical cow mastitis pathogens in milk by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Journal of Dairy Science, 2010, 93, 5661-5667.	3.4	79
66	A Cryotrap Membrane Introduction Mass Spectrometry System for Analysis of Volatile Organic Compounds in Water at the Low Parts-per-Trillion Level. Analytical Chemistry, 1996, 68, 3502-3506.	6.5	78
67	Antioxidant activity and composition of propolis obtained by different methods of extraction. Journal of the Brazilian Chemical Society, 2011, 22, 929-935.	0.6	78
68	Sweet Basil (Ocimum basilicum) Extracts Obtained by Supercritical Fluid Extraction (SFE): Global Yields, Chemical Composition, Antioxidant Activity, and Estimation of the Cost of Manufacturing. Food and Bioprocess Technology, 2008, 1, 326-338.	4.7	77
69	Baseline resolution of isomers by traveling wave ion mobility mass spectrometry: investigating the effects of polarizable drift gases and ionic charge distribution. Journal of Mass Spectrometry, 2013, 48, 989-997.	1.6	77
70	Amazonian Vegetable Oils and Fats: Fast Typification and Quality Control via Triacylglycerol (TAG) Profiles from Dry Matrix-Assisted Laser Desorption/Ionization Time-of-Flight (MALDIâˆ’TOF) Mass Spectrometry Fingerprinting. Journal of Agricultural and Food Chemistry, 2009, 57, 4030-4034.	5.2	76
71	Tetrahydrofuran Lignans fromNectandramegapotamicawith Trypanocidal ActivityâŠ¥. Journal of Natural Products, 2004, 67, 42-45.	3.0	75
72	Antioxidant activity of Caryocar brasiliense (pequi) and characterization of components by electrospray ionization mass spectrometry. Food Chemistry, 2008, 110, 711-717.	8.2	74

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73	Instantaneous characterization of vegetable oils via TAG and FFA profiles by easy ambient sonic-spray ionization mass spectrometry. Analyst, The, 2010, 135, 738.	3.5	74
74	Forensic Chemistry and Ambient Mass Spectrometry: A Perfect Couple Destined for a Happy Marriage?. Analytical Chemistry, 2016, 88, 2515-2526.	6.5	74
75	BrÃ¸nsted Acid Catalyzed Moritaâ€“Baylisâ€“Hillman Reaction: A New Mechanistic View for Thioureas Revealed by ESIâ€MS(/MS) Monitoring and DFT Calculations. Chemistry - A European Journal, 2009, 15, 12460-12469.	3.3	72
76	In vivo antitumoural activity and composition of an oil extract of Brazilian propolis. Food Chemistry, 2011, 126, 1239-1245.	8.2	70
77	Subcritical extraction of flaxseed oil with n-propane: Composition and purity. Food Chemistry, 2015, 188, 452-458.	8.2	70
78	Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis. Analytical Chemistry, 2018, 90, 11324-11332.	6.5	70
79	Catalyst deactivation in the gas phase destruction of nitrogen-containing organic compounds using TiO2/UVâ€“VIS. Applied Catalysis B: Environmental, 2001, 30, 389-397.	20.2	69
80	Fast Screening of Low Molecular Weight Compounds by Thin-Layer Chromatography and â€œOn-Spotâ€• MALDI-TOF Mass Spectrometry. Analytical Chemistry, 2004, 76, 2144-2147.	6.5	69
81	The role of ionic liquids in co-catalysis of Baylis-Hillman reaction: interception of supramolecular species via electrospray ionization mass spectrometry. Journal of Physical Organic Chemistry, 2006, 19, 731-736.	1.9	69
82	Task-specific ionic liquid incorporating anionic heteropolyacid-catalyzed Hantzsch and Mannich multicomponent reactions. Ionic liquid effect probed by ESI-MS(/MS). Tetrahedron, 2014, 70, 3306-3313.	1.9	69
83	Structures and mechanisms of reactions of isomeric C2H3O+ and C2H3S+ ions revealed through ion/molecule reactions in conjunction with 2D and 3D mass spectrometry. Journal of the American Chemical Society, 1992, 114, 2884-2896.	13.7	68
84	Gas-Phase Cl+ Affinities of Pyridines Determined by the Kinetic Method Using Multiple-Stage (MS3) Mass Spectrometry. Journal of the American Chemical Society, 1994, 116, 2457-2465.	13.7	68
85	Combined cysteine and homocysteine quantitation in plasma by trap and release membrane introduction mass spectrometry. Analyst, The, 2002, 127, 1050-1053.	3.5	68
86	Perfume fingerprinting by easy ambient sonicâ€spray ionization mass spectrometry: nearly instantaneous typification and counterfeit detection. Rapid Communications in Mass Spectrometry, 2008, 22, 3662-3666.	1.5	67
87	Analysis of biodiesel and biodieselâ€“petrodiesel blends by high performance thin layer chromatography combined with easy ambient sonic-spray ionization mass spectrometry. Analyst, The, 2009, 134, 1652.	3.5	67
88	Polar [4 + 2+] Diels-Alder cycloadditions of acylium ions in the gas phase. Journal of the American Chemical Society, 1993, 115, 9226-9233.	13.7	66
89	Sequential high pressure extractions applied to recover piceatannol and scirpusin B from passion fruit bagasse. Food Research International, 2016, 85, 51-58.	6.2	65
90	Probing the Mechanism of the Petasis Olefination Reaction by Atmospheric Pressure Chemical Ionization Mass and Tandem Mass Spectrometry. Organic Letters, 2003, 5, 1391-1394.	4.6	64

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91	Reaction of Bis(2,4-dinitrophenyl) Phosphate with Hydrazine and Hydrogen Peroxide. Comparison ofO- andN- Phosphorylation. Journal of Organic Chemistry, 2004, 69, 7898-7905.	3.2	64
92	Coupling of Vinylic Tellurides with Alkynes Catalyzed by Palladium Dichloride:Â Evaluation of Synthetic and Mechanistic Details. Organometallics, 2004, 23, 3990-3996.	2.3	64
93	Alkaloids from the Bark of Guatteria hispida and Their Evaluation as Antioxidant and Antimicrobial Agents. Journal of Natural Products, 2010, 73, 1180-1183.	3.0	64
94	Destruction of Malodorous Compounds Using Heterogeneous Photocatalysis. Environmental Science & Technology, 1999, 33, 2788-2792.	10.0	63
95	Probing the mechanism of the Ugi four-component reaction with charge-tagged reagents by ESI-MS(/MS). Chemical Communications, 2014, 50, 338-340.	4.1	63
96	Genetic polymorphisms involved in folate metabolism and elevated plasma concentrations of homocysteine: maternal risk factors for Down syndrome in Brazil. Genetics and Molecular Research, 2008, 7, 33-42.	0.2	63
97	Aflatoxin Screening by MALDI-TOF Mass Spectrometry. Analytical Chemistry, 2005, 77, 8155-8157.	6.5	62
98	Separation of isomeric disaccharides by traveling wave ion mobility mass spectrometry using CO₂ as drift gas. Journal of Mass Spectrometry, 2012, 47, 1643-1647.	1.6	61
99	Simultaneous quantification of phenolic compounds in buriti fruit (Mauritia flexuosa L.f.) by ultra-high performance liquid chromatography coupled to tandem mass spectrometry. Food Research International, 2014, 66, 396-400.	6.2	61
100	Effects of high-intensity ultrasound process parameters on the phenolic compounds recovery from araticum peel. Ultrasonics Sonochemistry, 2019, 50, 82-95.	8.2	61
101	In SituDESI-MSI Lipidomic Profiles of Breast Cancer Molecular Subtypes and Precursor Lesions. Cancer Research, 2020, 80, 1246-1257.	0.9	61
102	Regioselectivity in Aromatic Claisen Rearrangements. Journal of Organic Chemistry, 2003, 68, 5493-5499.	3.2	60
103	Intermolecular hydroamination and hydroarylation reactions of alkenes in ionic liquids. Tetrahedron Letters, 2006, 47, 6775-6779.	1.4	60
104	Structurally diagnostic ion/molecule reactions: class and functional-group identification by mass spectrometry. Journal of Mass Spectrometry, 2006, 41, 141-156.	1.6	60
105	Mechanisms of Nucleophilic Substitution Reactions of Methylated Hydroxylamines with Bis(2,4-dinitrophenyl)phosphate. Mass Spectrometric Identification of Key Intermediates. Journal of Organic Chemistry, 2004, 69, 6024-6033.	3.2	59
106	Green and roasted arabica coffees differentiated by ripeness, process and cup quality via electrospray ionization mass spectrometry fingerprinting. Journal of the Brazilian Chemical Society, 2009, 20, 313-321.	0.6	59
107	Bovine milk powder adulteration with vegetable oils or fats revealed by MALDI-QTOF MS. Food Chemistry, 2012, 131, 722-726.	8.2	59
108	Transacetalization with Acylium Ions. A Structurally Diagnostic Ion/Molecule Reaction for Cyclic Acetals and Ketals in the Gas Phase. Journal of Organic Chemistry, 1997, 62, 5096-5103.	3.2	58

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109	Petroleomics via Orbitrap mass spectrometry with resolving power above 1â€‰000â€‰000 at m/z 200. RSC Advances, 2018, 8, 6183-6191.	3.6	58
110	Structural and proactive safety aspects of oxidation debris from multiwalled carbon nanotubes. Journal of Hazardous Materials, 2011, 189, 391-396.	12.4	57
111	Whisky analysis by electrospray ionization-Fourier transform mass spectrometry. Food Research International, 2013, 51, 98-106.	6.2	57
112	Gas-phase oxirane addition to acylium ions on reaction with 1,3-dioxolanes elucidated by tandem and triple stage mass spectrometric experiments. Organic Mass Spectrometry, 1993, 28, 679-687.	1.3	56
113	New bioactive metabolites produced by Phomopsis cassiae, an endophytic fungus in Cassia spectabilis. Journal of the Brazilian Chemical Society, 2005, 16, 1463-1466.	0.6	56
114	Petroleomics by Ultrahigh-Resolution Time-of-Flight Mass Spectrometry. Energy & Fuels, 2012, 26, 5787-5794.	5.1	56
115	Assessing Biodegradation in the Llanos Orientales Crude Oils by Electrospray Ionization Ultrahigh Resolution and Accuracy Fourier Transform Mass Spectrometry and Chemometric Analysis. Energy & Fuels, 2013, 27, 1277-1284.	5.1	56
116	Lipidomics analysis of follicular fluid by ESI-MS reveals potential biomarkers for ovarian endometriosis. Journal of Assisted Reproduction and Genetics, 2015, 32, 1817-1825.	2.5	56
117	Catalyzed reaction of diazodiphenylethanone and related diazo ketones with enaminones as a source of pyrroles. Journal of Organic Chemistry, 1988, 53, 2084-2086.	3.2	55
118	Serine octamer metaclusters: formation, structure elucidation and implications for homochiral polymerization. Chemical Communications, 2001, , 1854-1855.	4.1	55
119	Electrophilic aromatic chlorine cation (Cl+) addition and CO.bul.+ substitution in the gas phase. Journal of the American Chemical Society, 1993, 115, 1004-1014.	13.7	54
120	Identification, molecular cloning and functional characterization of an octaprenyl pyrophosphate synthase in intra-erythrocytic stages of Plasmodium falciparum. Biochemical Journal, 2005, 392, 117-126.	3.7	54
121	Synthesis of benzophenones from geminal biaryl ethenes using m-chloroperbenzoic acid. Tetrahedron Letters, 2009, 50, 2312-2316.	1.4	54
122	ComposiÃ§Ã£o quÃmica e atividade biolÃ³gica de extrato oleoso de prÃ³polis: uma alternativa ao extrato etanÃ³lico. Quimica Nova, 2009, 32, 296-302.	0.3	54
123	Bacterial identification: from the agar plate to the mass spectrometer. RSC Advances, 2013, 3, 994-1008.	3.6	54
124	New AntioxidantC-Glucosylxanthones from the Stems ofArrabidaea samydoides. Journal of Natural Products, 2003, 66, 1384-1387.	3.0	53
125	Chemoselective Aromatic Azido Reduction with Concomitant Aliphatic Azide Employing Al/Gd Triflates/NaI and ESIâ€MS Mechanistic Studies. Chemistry - A European Journal, 2009, 15, 7215-7224.	3.3	53
126	Secretome of the preimplantation human embryo by bottom-up label-free proteomics. Analytical and Bioanalytical Chemistry, 2011, 401, 1331-9.	3.7	53

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127	Water solubilization of ethanol and BTEX from gasoline: on-line monitoring by membrane introduction mass spectrometry. Analyst, The, 2002, 127, 230-234.	3.5	52
128	Single-Shot Biodiesel Analysis: Nearly Instantaneous Typification and Quality Control Solely by Ambient Mass Spectrometry. Analytical Chemistry, 2008, 80, 7882-7886.	6.5	52
129	Identification of Coagulase-Negative Staphylococci from Bovine Intramammary Infection by Matrix-Assisted Laser Desorption Ionizationâ€“Time of Flight Mass Spectrometry. Journal of Clinical Microbiology, 2014, 52, 1658-1663.	3.9	52
130	Simple, Expendable, 3D-Printed Microfluidic Systems for Sample Preparation of Petroleum. Analytical Chemistry, 2017, 89, 3460-3467.	6.5	52
131	Characterization of must and wine of six varieties of grapes by direct infusion electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2006, 41, 185-190.	1.6	51
132	Biodiesel Typification and Quality Control by Direct Infusion Electrospray Ionization Mass Spectrometry Fingerprinting. Energy & Fuels, 2007, 21, 3698-3701.	5.1	51
133	Suicide Nucleophilic Attack: Reactions of Benzohydroxamate Anion with Bis(2,4-dinitrophenyl) Phosphate. Journal of Organic Chemistry, 2009, 74, 5011-5016.	3.2	51
134	Fingerprinting of propolis by easy ambient sonic-spray ionization mass spectrometry. Talanta, 2010, 81, 100-108.	5.5	51
135	Molecularly imprinted polymers as analyte sequesters and selective surfaces for easy ambient sonic-spray ionization. Analyst, The, 2010, 135, 726.	3.5	51
136	Vapors from Ionic Liquids: Reconciling Simulations with Mass Spectrometric Data. Journal of Physical Chemistry Letters, 2012, 3, 3435-3441.	4.6	51
137	Analysis of fuels via easy ambient sonic-spray ionization mass spectrometry. Analytica Chimica Acta, 2010, 659, 15-22.	5.4	50
138	Prediction of embryo implantation potential by mass spectrometry fingerprinting of the culture medium. Reproduction, 2013, 145, 453-462.	2.6	50
139	Cloud point extraction applied to casein proteins of cow milk and their identification by mass spectrometry. Analytica Chimica Acta, 2007, 590, 166-172.	5.4	49
140	Determination of memantine in human plasma by liquid chromatographyâ€“electrospray tandem mass spectrometry: Application to a bioequivalence study. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 848, 311-316.	2.3	49
141	Influence of package, type of apple juice and temperature on the production of patulin by Byssochlamys nivea and Byssochlamys fulva. International Journal of Food Microbiology, 2010, 142, 156-163.	4.7	49
142	Charge-Tagged Acetate Ligands As Mass Spectrometry Probes for Metal Complexes Investigations: Applications in Suzuki and Heck Phosphine-Free Reactions. Journal of Organic Chemistry, 2011, 76, 10140-10147.	3.2	49
143	Lipidome signatures in early bovine embryo development. Theriogenology, 2016, 86, 472-484.e1.	2.1	49
144	Photolytic degradation of the insecticide thiamethoxam in aqueous medium monitored by direct infusion electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2007, 42, 1319-1325.	1.6	48

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145	Palladium-Catalyzed Tandem Heck-Lactonization fromo-Iodophenols and Enoates: Synthesis of Coumarins and the Study of the Mechanism by Electrospray Ionization Mass Spectrometry. Journal of Organic Chemistry, 2010, 75, 7085-7091.	3.2	48
146	Quantitation of organic acids in wine and grapes by direct infusion electrospray ionization mass spectrometry. Analytical Methods, 2015, 7, 53-62.	2.7	48
147	Longâ€chain acylâ€CoA synthetase 6 regulates lipid synthesis and mitochondrial oxidative capacity in human and rat skeletal muscle. Journal of Physiology, 2017, 595, 677-693.	2.9	48
148	Benzopyrans from Curvularia sp., an endophytic fungus associated with Ocotea corymbosa (Lauraceae). Phytochemistry, 2005, 66, 2363-2367.	2.9	46
149	Mass spectrometric evidence for a zincâ€“porphyrin complex as the red pigment in dry-cured Iberian and Parma ham. Meat Science, 2007, 75, 203-210.	5.5	46
150	Biological and biochemical characterization of new basic phospholipase A2 BmTX-I isolated from Bothrops moojeni snake venom. Toxicon, 2008, 51, 1509-1519.	1.6	46
151	Sesquiterpene lactones from Vernonia scorpioides and their in vitro cytotoxicity. Phytochemistry, 2010, 71, 1539-1544.	2.9	46
152	Phosphorylimidazole Derivatives: Potentially Biosignaling Molecules. Journal of Organic Chemistry, 2011, 76, 8003-8008.	3.2	46
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