

Miroslav Lã-sa

List of Publications by Year in descending order

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57
papers

3,091
citations

159585

30
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

3370
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in liquid chromatography–mass spectrometry and related techniques. <i>Journal of Chromatography A</i> , 2012, 1259, 3-15.	3.7	263
2	Quantitation of triacylglycerols in plant oils using HPLC with APCI-MS, evaporative light-scattering, and UV detection. <i>Journal of Separation Science</i> , 2005, 28, 1315-1333.	2.5	190
3	High-Throughput and Comprehensive Lipidomic Analysis Using Ultrahigh-Performance Supercritical Fluid Chromatography–Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7187-7195.	6.5	190
4	Triacylglycerols profiling in plant oils important in food industry, dietetics and cosmetics using high-performance liquid chromatography–atmospheric pressure chemical ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1198-1199, 115-130.	3.7	187
5	Basic rules for the interpretation of atmospheric pressure ionization mass spectra of small molecules. <i>Journal of Chromatography A</i> , 2010, 1217, 3908-3921.	3.7	165
6	Lipidomic profiling of biological tissues using off-line two-dimensional high-performance liquid chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 5146-5156.	3.7	141
7	Nontargeted Quantitation of Lipid Classes Using Hydrophilic Interaction Liquid Chromatography–Electrospray Ionization Mass Spectrometry with Single Internal Standard and Response Factor Approach. <i>Analytical Chemistry</i> , 2012, 84, 10064-10070.	6.5	121
8	Regioisomeric Characterization of Triacylglycerols Using Silver-Ion HPLC/MS and Randomization Synthesis of Standards. <i>Analytical Chemistry</i> , 2009, 81, 3903-3910.	6.5	112
9	Characterization of Triacylglycerol Enantiomers Using Chiral HPLC/APCI-MS and Synthesis of Enantiomeric Triacylglycerols. <i>Analytical Chemistry</i> , 2013, 85, 1852-1859.	6.5	103
10	Retention behavior of lipids in reversed-phase ultrahigh-performance liquid chromatography–electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1450, 76-85.	3.7	99
11	Quantitation of triacylglycerols from plant oils using charged aerosol detection with gradient compensation. <i>Journal of Chromatography A</i> , 2007, 1176, 135-142.	3.7	96
12	Regioisomeric analysis of triacylglycerols using silver-ion liquid chromatography–atmospheric pressure chemical ionization mass spectrometry: Comparison of five different mass analyzers. <i>Journal of Chromatography A</i> , 2010, 1217, 8186-8194.	3.7	95
13	Lipidomic analysis of biological samples: Comparison of liquid chromatography, supercritical fluid chromatography and direct infusion mass spectrometry methods. <i>Journal of Chromatography A</i> , 2017, 1525, 96-108.	3.7	94
14	Statistical Evaluation of Triacylglycerol Composition in Plant Oils Based on High-Performance Liquid Chromatography–Atmospheric Pressure Chemical Ionization Mass Spectrometry Data. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 6888-6898.	5.2	87
15	Characterization of fatty acid and triacylglycerol composition in animal fats using silver-ion and non-aqueous reversed-phase high-performance liquid chromatography/mass spectrometry and gas chromatography/flame ionization detection. <i>Journal of Chromatography A</i> , 2011, 1218, 7499-7510.	3.7	84
16	Characterization of prenylflavonoids and hop bitter acids in various classes of Czech beers and hop extracts using high-performance liquid chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 7249-7257.	3.7	72
17	High-performance liquid-chromatographic determination of 5-aminosalicylic acid and its metabolites in blood plasma. <i>Journal of Chromatography A</i> , 2006, 1119, 299-308.	3.7	69
18	Determination of lipidomic differences between human breast cancer and surrounding normal tissues using HILIC-HPLC/ESI-MS and multivariate data analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 991-1002.	3.7	67

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19	Hydrophilic interaction liquid chromatography–mass spectrometry of (lyso)phosphatidic acids, (lyso)phosphatidylserines and other lipid classes. <i>Journal of Chromatography A</i> , 2016, 1439, 65-73.	3.7	67
20	Continuous comprehensive two-dimensional liquid chromatography–electrospray ionization mass spectrometry of complex lipidomic samples. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5033-5043.	3.7	63
21	Orthogonality of silver–ion and non–aqueous reversed–phase HPLC/MS in the analysis of complex natural mixtures of triacylglycerols. <i>Journal of Separation Science</i> , 2009, 32, 3672-3680.	2.5	62
22	High-performance liquid chromatography–atmospheric pressure chemical ionization mass spectrometry and gas chromatography–flame ionization detection characterization of ω -5-polyenoic fatty acids in triacylglycerols from conifer seed oils. <i>Journal of Chromatography A</i> , 2007, 1146, 67-77.	3.7	61
23	Lipidomic differentiation between human kidney tumors and surrounding normal tissues using HILIC-HPLC/ESI–MS and multivariate data analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1000, 14-21.	2.3	59
24	Hydrophilic Interaction Liquid Chromatography–Mass Spectrometry Characterization of Gangliosides in Biological Samples. <i>Analytical Chemistry</i> , 2017, 89, 12425-12432.	6.5	55
25	Determination of triacylglycerol regioisomers using differential mobility spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 256-264.	1.5	52
26	Determination of nonpolar and polar lipid classes in human plasma, erythrocytes and plasma lipoprotein fractions using ultrahigh-performance liquid chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1377, 85-91.	3.7	47
27	Nontargeted Lipidomic Characterization of Porcine Organs Using Hydrophilic Interaction Liquid Chromatography and Off–Line Two–Dimensional Liquid Chromatography–Electrospray Ionization Mass Spectrometry. <i>Lipids</i> , 2013, 48, 915-928.	1.7	45
28	High-performance liquid chromatographic method with UV photodiode-array, fluorescence and mass spectrometric detection for simultaneous determination of galantamine and its phase I metabolites in biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 853, 265-274.	2.3	37
29	Nuclear phosphatidylinositol 4,5-bisphosphate islets contribute to efficient RNA polymerase II-dependent transcription. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	35
30	Achiral and chiral high-performance liquid chromatographic determination of flubendazole and its metabolites in biomatrices using UV photodiode-array and mass spectrometric detection. <i>Journal of Chromatography A</i> , 2007, 1149, 112-120.	3.7	31
31	HILIC/ESI-MS determination of gangliosides and other polar lipid classes in renal cell carcinoma and surrounding normal tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6585-6594.	3.7	31
32	Comparison of various types of stationary phases in non-aqueous reversed-phase high-performance liquid chromatography–mass spectrometry of glycerolipids in blackcurrant oil and its enzymatic hydrolysis mixture. <i>Journal of Chromatography A</i> , 2009, 1216, 8371-8378.	3.7	29
33	Lipidomic analysis of plasma, erythrocytes and lipoprotein fractions of cardiovascular disease patients using UHPLC/MS, MALDI-MS and multivariate data analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 990, 52-63.	2.3	27
34	Analysis of oxylipins in human plasma: Comparison of ultrahigh-performance liquid chromatography and ultrahigh-performance supercritical fluid chromatography coupled to mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1511, 107-121.	3.7	27
35	Correlation of lipidomic composition of cell lines and tissues of breast cancer patients using hydrophilic interaction liquid chromatography/electrospray ionization mass spectrometry and multivariate data analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 253-263.	1.5	23
36	Retention behavior of isomeric triacylglycerols in silver–ion HPLC: effects of mobile phase composition and temperature. <i>Journal of Separation Science</i> , 2013, 36, 2888-2900.	2.5	18

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37	Occurrence of radical molecular ions in atmospheric pressure chemical ionization mass spectra of heterocyclic compounds. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1645-1648.	1.6	12
38	LipidQuant 1.0: automated data processing in lipid class separation mass spectrometry quantitative workflows. <i>Bioinformatics</i> , 2021, 37, 4591-4592.	4.1	11
39	Encapsulation of oxime K027 into cucurbit[7]uril: In vivo evaluation of safety, absorption, brain distribution and reactivation effectiveness. <i>Toxicology Letters</i> , 2020, 320, 64-72.	0.8	10
40	UHPSFC/ESI-MS Analysis of Lipids. <i>Methods in Molecular Biology</i> , 2018, 1730, 73-82.	0.9	9
41	Statistical evaluation of triacylglycerol composition by HPLC/APCI-MS. <i>Lipid Technology</i> , 2009, 21, 261-265.	0.3	7
42	Lipidomic analysis using hydrophilic interaction liquid chromatography microgradient fractionation of total lipid extracts. <i>Journal of Chromatography A</i> , 2021, 1653, 462380.	3.7	6
43	Silver-Ion Liquid Chromatography Mass Spectrometry. , 2017, , 115-140.		5
44	Synthesis and Characterization of Dialkyl Esters of 1,2,4,5-Tetrazine-3,6-dicarboxylic Acid. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 107-115.	1.0	4
45	A systematic evaluation of the cucurbit[7]uril pharmacokinetics and toxicity after a single dose and short-term repeated administration in mice. <i>Archives of Toxicology</i> , 2022, 96, 1411-1421.	4.2	4
46	Estimation of stereospecific fatty acid distribution in vegetable oils from liquid chromatography data. <i>European Journal of Lipid Science and Technology</i> , 2008, 110, 266-276.	1.5	3
47	Effects of fatty acyl chain length, double bond number and matrix on phosphatidylcholine responses in matrix-assisted laser desorption/ionization on an Orbitrap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2374-2384.	1.5	3
48	Encapsulation of oxime acetylcholinesterase reactivators: influence of physiological conditions on the stability of oxime-cucurbit[7]uril complexes. <i>New Journal of Chemistry</i> , 2020, 44, 14367-14372.	2.8	3
49	Effect of Oxime Encapsulation on Acetylcholinesterase Reactivation: Pharmacokinetic Study of the Asoxime-Cucurbit[7]uril Complex in Mice Using Hydrophilic Interaction Liquid Chromatography Mass Spectrometry. <i>Molecular Pharmaceutics</i> , 2021, 18, 2416-2427.	4.6	3
50	Omega-3 fatty acid supplementation candidates can be selected using fatty acid profiling. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 601-607.	1.5	2
51	Highly repeatable and selective ultrahigh-performance supercritical fluid chromatography mass spectrometry interclass separation in lipidomic studies. <i>Microchemical Journal</i> , 2022, 178, 107376.	4.5	2
52	Erratum to "High-performance liquid-chromatographic determination of 5-aminosalicylic acid and its metabolites in blood plasma". <i>J. Chromatogr. A</i> 1119 (2006) 299-308. <i>Journal of Chromatography A</i> , 2006, 1136, 248.	3.7	1
53	Triacylglycerols in Nut and Seed Oils. , 2011, , 43-54.		1
54	Chapter 7. UHPLC/MS Coupling: How to Select a Suitable Configuration?. <i>RSC Chromatography Monographs</i> , 2012, , 186-210.	0.1	1

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55	Silver-Ion Chromatography of Glycerolipids. , 2016, , 1-11.		0
56	Corrigendum to: LipidQuant 1.0: automated data processing in lipid class separationâ€“mass spectrometry quantitative workflows. Bioinformatics, 2021, 37, 4903-4903.	4.1	0
57	Ultrahigh-performance supercritical fluid chromatography for intraclass separation of lipids: Investigation of general principles. Journal of Chromatography A, 2022, 1670, 462975.	3.7	0