

# CITATION REPORT

List of articles citing

## Current practice of liquid chromatography-mass spectrometry in metabolomics and metabonomics

DOI: 10.1016/j.jpba.2013.06.032

Journal of Pharmaceutical and Biomedical Analysis,  
2014, 87, 12-25.

**Source:** <https://exaly.com/paper-pdf/58775760/citation-report.pdf>

**Version:** 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
312	MetaDB a Data Processing Workflow in Untargeted MS-Based Metabolomics Experiments. <b>2014</b> , 2, 72		24
311	Seaweed Metabolomics: A New Facet of Functional Genomics. <b>2014</b> , 71, 31-52		11
310	Recent developments in liquid-phase separation techniques for metabolomics. <b>2014</b> , 6, 1011-26		41
309	Biomarkers in Alzheimer's disease analysis by mass spectrometry-based proteomics. <b>2014</b> , 15, 7865-82		39
308	Current state-of-the-art of nontargeted metabolomics based on liquid chromatography-mass spectrometry with special emphasis in clinical applications. <b>2014</b> , 1374, 1-13		81
307	Advances in liquid chromatography coupled to mass spectrometry for metabolic phenotyping. <b>2014</b> , 61, 181-191		43
306	Evaluation of analytical performance and reliability of direct nanoLC-nanoESI-high resolution mass spectrometry for profiling the (xeno)metabolome. <b>2014</b> , 49, 1063-9		32
305	Ultra high resolution SFC-MS as a high throughput platform for metabolic phenotyping: application to metabolic profiling of rat and dog bile. <b>2014</b> , 966, 200-7		33
304	metaMS: an open-source pipeline for GC-MS-based untargeted metabolomics. <b>2014</b> , 966, 109-16		57
303	The role of capillary electrophoresis in metabolic profiling studies employing multiple analytical techniques. <b>2014</b> , 61, 223-235		20
302	MICROFLUIDIC DEVICES FOR LABEL-FREE AND NON-INSTRUMENTED QUANTITATION OF UNAMPLIFIED NUCLEIC ACIDS BY FLOW DISTANCE MEASUREMENT. <b>2014</b> , 6, 8173-8179		7
301	Evaluation of mobile phase characteristics on three zwitterionic columns in hydrophilic interaction liquid chromatography mode for liquid chromatography-high resolution mass spectrometry based untargeted metabolite profiling of Leishmania parasites. <b>2014</b> , 1362, 168-79		64
300	Pneumatic microvalve-based hydrodynamic sample injection for high-throughput, quantitative zone electrophoresis in capillaries. <b>2014</b> , 86, 6723-9		15
299	Quantitative metabolite profiling utilizing parallel column analysis for simultaneous reversed-phase and hydrophilic interaction liquid chromatography separations combined with tandem mass spectrometry. <b>2014</b> , 86, 4145-50		45
298	Metabolomic profiling of anionic metabolites in head and neck cancer cells by capillary ion chromatography with Orbitrap mass spectrometry. <b>2014</b> , 86, 5116-24		73
297	Expedient preparative isolation and tandem mass spectrometric characterization of C-seco triterpenoids from Neem oil. <b>2014</b> , 1366, 1-14		19
296	Metabonomic analysis of the toxic effects of TM208 in rat urine by HPLC-ESI-IT-TOF/MS. <b>2014</b> , 959, 49-54		4

295	High precision mass measurements for wine metabolomics. <b>2014</b> , 2, 102		56
294	Study of leaf metabolome modifications induced by UV-C radiations in representative <i>Vitis</i> , <i>Cissus</i> and <i>Cannabis</i> species by LC-MS based metabolomics and antioxidant assays. <b>2014</b> , 19, 14004-21		33
293	Triterpenoid profiling and functional characterization of the initial genes involved in isoprenoid biosynthesis in neem ( <i>Azadirachta indica</i> ). <b>2015</b> , 15, 214		23
292	Analysis of the metabolome of <i>Anopheles gambiae</i> mosquito after exposure to <i>Mycobacterium ulcerans</i> . <b>2015</b> , 5, 9242		12
291	Isotope-labeled differential profiling of metabolites using N-benzoyloxysuccinimide derivatization coupled to liquid chromatography/high-resolution tandem mass spectrometry. <b>2015</b> , 29, 1632-40		9
290	Concerns and Considerations about the Quality Control of Natural Products Using Chromatographic Methods. <b>2015</b> , 2, 20-31		9
289	Recent Advances in Metabolomics. <b>2015</b> , 3, 54-64		1
288	Bioinformatics Tools for Metabolomic Data Processing and Analysis Using Untargeted Liquid Chromatography Coupled With Mass Spectrometry. <b>2015</b> , 72,		8
287	Reversed-phase chromatography: recent advances and novel applications. <b>2015</b> , 6-18		
286	Analytical methods in untargeted metabolomics: state of the art in 2015. <b>2015</b> , 3, 23		377
285	[Metabolome and mass spectrometry: new biomedical analysis perspectives]. <b>2015</b> , 73, 126-30		3
284	LC-MS-based serum metabolomic analysis reveals dysregulation of phosphatidylcholines in esophageal squamous cell carcinoma. <b>2015</b> , 127, 96-102		26
283	Two elephants in the room: new hybrid nuclear magnetic resonance and mass spectrometry approaches for metabolomics. <b>2015</b> , 18, 471-7		53
282	Combined Nontargeted Analytical Methodologies for the Characterization of the Chemical Evolution of Bottled Wines. <b>2015</b> , 13-27		
281	An UPLC-MS-based metabolomics investigation on the anti-fatigue effect of salidroside in mice. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 105, 84-90	3-5	32
280	Metabolomics for laboratory diagnostics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 113, 108-20	3-5	159
279	Multivariate analysis of chromatographic retention data as a supplementary means for grouping structurally related compounds. <b>2015</b> , 1387, 49-52		5
278	Using metabolomics to identify biomarkers for metabolic diseases. <b>2015</b> , 145-166		1

277	An overview of fecal sample preparation for global metabolic profiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 113, 137-50	3-5	83
276	Facile and robust dual interaction modification of hexadecyldimethyl amine magnetic nanoparticles for the ultrasensitive analysis of perfluorinated compounds in environmental water. <b>2015</b> , 38, 1394-401		10
275	Potential of mass spectrometry metabolomics for chemical food safety. <b>2015</b> , 7, 133-46		23
274	Computational and statistical analysis of metabolomics data. <b>2015</b> , 11, 1492-1513		135
273	Metabolomics of neurodegenerative diseases. <b>2015</b> , 122, 53-80		28
272	Nutritional systems biology of type 2 diabetes. <b>2015</b> , 10, 481		20
271	Phenolic composition of "bud extracts" of <i>Ribes nigrum</i> L., <i>Rosa canina</i> L. and <i>Tilia tomentosa</i> M. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 115, 1-9	3-5	25
270	Solutions for low and high accuracy mass spectrometric data matching: a data-driven annotation strategy in nontargeted metabolomics. <b>2015</b> , 87, 8917-24		31
269	Analytical strategies for studying stem cell metabolism. <b>2015</b> , 10, 141-153		11
268	Fast and Online Determination of Five Avermectin Residues in Foodstuffs of Plant and Animal Origin Using Reusable Polymeric Monolithic Extractor Coupled with LC-MS/MS. <b>2015</b> , 63, 4096-103		17
267	A short review of applications of liquid chromatography mass spectrometry based metabolomics techniques to the analysis of human urine. <b>2015</b> , 140, 2907-15		37
266	Mass spectrometry tools and workflows for revealing microbial chemistry. <b>2015</b> , 140, 4949-66		30
265	Plasma metabolic profiling after cortical spreading depression in a transgenic mouse model of hemiplegic migraine by capillary electrophoresis--mass spectrometry. <b>2015</b> , 11, 1462-71		21
264	Complementing reversed-phase selectivity with porous graphitized carbon to increase the metabolome coverage in an on-line two-dimensional LC-MS setup for metabolomics. <b>2015</b> , 140, 3465-73		26
263	The Progress of Metabolomics Study in Traditional Chinese Medicine Research. <b>2015</b> , 43, 1281-310		23
262	Analytical methodology for metabolomics study of adherent mammalian cells using NMR, GC-MS and LC-HRMS. <b>2015</b> , 407, 8861-72		33
261	Advances in sample preparation and analytical techniques for lipidomics study of clinical samples. <b>2015</b> , 66, 1-18		57
260	Metabolic profiling study on potential toxicity and immunotoxicity-biomarker discovery in rats treated with cyclophosphamide using HPLC-ESI-IT-TOF-MS. <b>2015</b> , 29, 768-76		5

259	Solid-phase extraction and nanoflow liquid chromatography-nanoelectrospray ionization mass spectrometry for improved global urine metabolomics. <b>2015</b> , 87, 1158-65	35
258	Microflow liquid chromatography coupled to mass spectrometry--an approach to significantly increase sensitivity, decrease matrix effects, and reduce organic solvent usage in pesticide residue analysis. <b>2015</b> , 87, 1018-25	44
257	Advances in Mass Spectrometry for Food Authenticity Testing. <b>2016</b> , 171-200	5
256	The Significance of Metabolomics in Human Health. <b>2016</b> , 89-100	2
255	Metabolomics and Its Application to Acute Lung Diseases. <b>2016</b> , 7, 44	70
254	Current Advances in the Metabolomics Study on Lotus Seeds. <b>2016</b> , 7, 891	17
253	Chromatography: High-Performance Liquid Chromatography. <b>2016</b> , 93-99	4
252	Evaluation of coverage, retention patterns, and selectivity of seven liquid chromatographic methods for metabolomics. <b>2016</b> , 408, 6079-91	55
251	Improving the Sensitivity, Resolution, and Peak Capacity of Gradient Elution in Capillary Liquid Chromatography with Large-Volume Injections by Using Temperature-Assisted On-Column Solute Focusing. <b>2016</b> , 88, 5112-21	24
250	Metabolomics revealed diurnal heat stress and zinc supplementation-induced changes in amino acid, lipid, and microbial metabolism. <b>2016</b> , 4, e12676	13
249	Metabolomic Profiling of Post-Mortem Brain Reveals Changes in Amino Acid and Glucose Metabolism in Mental Illness Compared with Controls. <b>2016</b> , 14, 106-16	21
248	Evaluation of the technical variations and the suitability of a hydrophilic interaction liquid chromatography-high resolution mass spectrometry (ZIC-pHILIC-Exactive orbitrap) for clinical urinary metabolomics study. <b>2016</b> , 1022, 199-205	7
247	Isotope-coded ESI-enhancing derivatization reagents for differential analysis, quantification and profiling of metabolites in biological samples by LC/MS: A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 130, 181-193	3.5 49
246	An improved pseudotargeted metabolomics approach using multiple ion monitoring with time-staggered ion lists based on ultra-high performance liquid chromatography/quadrupole time-of-flight mass spectrometry. <b>2016</b> , 927, 82-8	38
245	Capillary Electrophoresis-Mass Spectrometry for Clinical Metabolomics. <b>2016</b> , 74, 1-34	28
244	Large-Scale Metabolite Analysis of Standards and Human Serum by Laser Desorption Ionization Mass Spectrometry from Silicon Nanopost Arrays. <b>2016</b> , 88, 8989-96	33
243	The WEIZMASS spectral library for high-confidence metabolite identification. <b>2016</b> , 7, 12423	62
242	Mass Spectrometric Detectors for Environmental Studies. <b>2016</b> , 47-78	

241	A pseudo-kinetics approach for time-series metabolomics investigations: more reliable and sensitive biomarkers revealed in vincristine-induced paralytic ileus rats. <b>2016</b> , 6, 54471-54478	4
240	Multimode gradient high performance liquid chromatography mass spectrometry method applicable to metabolomics and environmental monitoring. <b>2016</b> , 1456, 145-51	10
239	LCMS based global metabolite profiling: the necessity of high data quality. <b>2016</b> , 12, 1	34
238	Phenotyping hepatocellular metabolism using uniformly labeled carbon-13 molecular probes and LC-HRMS stable isotope tracing. <b>2016</b> , 508, 129-37	7
237	CE-MS in Metabolomics. <b>2016</b> , 293-314	
236	Lactobacillus plantarum NCU116 fermented carrot juice evokes changes of metabolites in serum from type 2 diabetic rats. <b>2016</b> , 80, 36-40	20
235	Comprehensive analysis of serum metabolites in gestational diabetes mellitus by UPLC/Q-TOF-MS. <b>2016</b> , 408, 1125-35	39
234	Protocol for quality control in metabolic profiling of biological fluids by U(H)PLC-MS. <b>2016</b> , 1008, 15-25	60
233	Toward Merging Untargeted and Targeted Methods in Mass Spectrometry-Based Metabolomics and Lipidomics. <b>2016</b> , 88, 524-45	438
232	A hydrophilic interaction liquid chromatography-mass spectrometry (HILIC-MS) based metabolomics study on colour stability of ovine meat. <b>2016</b> , 117, 163-72	39
231	MSCombine: a tool for merging untargeted metabolomic data from high-resolution mass spectrometry in the positive and negative ionization modes. <b>2016</b> , 12, 1	18
230	LC-ESI-TOF-MS-based metabolomic analysis of ginsenoside Rd-induced anaphylactoid reaction in mice. <b>2016</b> , 6, 19545-19554	5
229	UPLC-QTOF-MS based metabolomics coupled with the diagnostic ion exploration strategy for rapidly evaluating sulfur-fumigation caused holistic quality variation in medicinal herbs, Moutan Cortex as an example. <b>2016</b> , 8, 1034-1043	12
228	A genetic algorithm-based approach for pre-processing metabolomics and lipidomics LCMS data. <b>2016</b> , 12, 1	4
227	Studying the effect of storage conditions on the metabolite content of red wine using HILIC LC-MS based metabolomics. <b>2016</b> , 197 Pt B, 1331-40	45
226	Use of a pre-analysis osmolality normalisation method to correct for variable urine concentrations and for improved metabolomic analyses. <b>2016</b> , 1431, 103-110	33
225	Metabolic fingerprinting reveals a novel candidate biomarker for prednisolone treatment in cattle. <b>2016</b> , 12, 1	82
224	Liquid chromatography-high-resolution mass spectrometry-based cell metabolomics: Experimental design, recommendations, and applications. <b>2016</b> , 75, 118-128	38

223	Metabolomics applied to the pancreatic islet. <b>2016</b> , 589, 120-30	27
222	Methods and techniques for metabolic phenotyping. <b>2017</b> , 9, 1-3	5
221	Collection and Preparation of Clinical Samples for Metabolomics. <b>2017</b> , 965, 19-44	35
220	βN-Methylamino-L-alanine (BMAA) perturbs alanine, aspartate and glutamate metabolism pathways in human neuroblastoma cells as determined by metabolic profiling. <b>2017</b> , 49, 905-919	22
219	An overview of recent developments in metabolomics and proteomics in phytotherapeutic research perspectives. <b>2017</b> , 10, 1-37	10
218	Metabolomic study on the antihypertensive effect of S-1-propenylcysteine in spontaneously hypertensive rats using liquid chromatography coupled with quadrupole-Orbitrap mass spectrometry. <b>2017</b> , 1046, 147-155	26
217	Molecular Profiling. <b>2017</b> ,	3
216	Untargeted metabolomics reveals a mild impact of remote ischemic conditioning on the plasma metabolome and βhydroxybutyrate as a possible cardioprotective factor and biomarker of tissue ischemia. <b>2017</b> , 13, 67	7
215	Ion mobility spectrometry combined with ultra performance liquid chromatography/mass spectrometry for metabolic phenotyping of urine: Effects of column length, gradient duration and ion mobility spectrometry on metabolite detection. <b>2017</b> , 982, 1-8	46
214	Urinary metabolomics reveals the therapeutic effect of HuangQi Injections in cisplatin-induced nephrotoxic rats. <b>2017</b> , 7, 3619	16
213	Compound annotation in liquid chromatography/high-resolution mass spectrometry based metabolomics: robust adduct ion determination as a prerequisite to structure prediction in electrospray ionization mass spectra. <b>2017</b> , 31, 1261-1266	31
212	LC-Mass Spectrometry for Metabolomics. <b>2017</b> , 1606, 333-340	1
211	Metabolomic screening using ESI-FT MS identifies potential radiation-responsive molecules in mouse urine. <b>2017</b> , 58, 273-280	5
210	Cisplatin-induced metabolome changes in serum: an experimental approach to identify markers for ototoxicity. <b>2017</b> , 137, 1024-1030	3
209	Impact of exercise on fecal and cecal metabolome over aging: a longitudinal study in rats. <b>2017</b> , 9, 21-36	13
208	NMR-based metabolomics strategies: plants, animals and humans. <b>2017</b> , 9, 1078-1096	43
207	UHPLC-Q-TOF-MS-based metabolomics approach to compare the saponin compositions of Xueshuantong injection and Xuesaitong injection. <b>2017</b> , 40, 834-841	27
206	Exhaled breath condensate methods adapted from human studies using longitudinal metabolomics for predicting early health alterations in dolphins. <b>2017</b> , 409, 6523-6536	6

205	Metabolomics applied to diabetes-lessons from human population studies. <b>2017</b> , 93, 136-147	19
204	The metabolic enzyme fructose-1,6-bisphosphate aldolase acts as a transcriptional regulator in pathogenic <i>Francisella</i> . <b>2017</b> , 8, 853	50
203	Validating Quantitative Untargeted Lipidomics Across Nine Liquid Chromatography-High-Resolution Mass Spectrometry Platforms. <b>2017</b> , 89, 12360-12368	123
202	Studies on effect of <i>Ginkgo biloba</i> L. leaves in acute gout with hyperuricemia model rats by using UPLC-ESI-Q-TOF/MS metabolomic approach. <b>2017</b> , 7, 42964-42972	4
201	Advances in derivatization approaches for increasing the sensitivity of small molecules. <b>2017</b> , 9, 907-909	
200	Hyphenated MS-based targeted approaches in metabolomics. <b>2017</b> , 142, 3079-3100	55
199	Nontargeted screening of chemical contaminants and illegal additives in food based on liquid chromatography-high resolution mass spectrometry. <b>2017</b> , 96, 89-98	45
198	Ultra-high performance liquid chromatography. <b>2017</b> , 719-769	8
197	Metabolomics Profiling to Determine the Effect of Postmortem Aging on Color and Lipid Oxidative Stabilities of Different Bovine Muscles. <b>2017</b> , 65, 6708-6716	44
196	Recent advances in liquid-phase separations for clinical metabolomics. <b>2017</b> , 40, 93-108	28
195	Next-generation capillary electrophoresis-mass spectrometry approaches in metabolomics. <b>2017</b> , 43, 1-7	82
194	High-resolution metabolomics to identify urine biomarkers in corticosteroid-resistant asthmatic children. <b>2017</b> , 139, 1518-1524.e4	29
193	Foodomics: LC and LC-MS-based omics strategies in food science and nutrition. <b>2017</b> , 267-299	5
192	Impact of Exercise and Aging on Rat Urine and Blood Metabolome. An LC-MS Based Metabolomics Longitudinal Study. <b>2017</b> , 7,	16
191	Sample Preparation Strategies for the Effective Quantitation of Hydrophilic Metabolites in Serum by Multi-Targeted HILIC-MS/MS. <b>2017</b> , 7,	16
190	High-Resolution Liquid Chromatography Tandem Mass Spectrometry Enables Large Scale Molecular Characterization of Dissolved Organic Matter. <b>2017</b> , 4,	50
189	<i>Anopheles gambiae</i> : Metabolomic Profiles in Sugar-Fed, Blood-Fed, and <i>Plasmodium falciparum</i> -Infected Midgut. <b>2017</b> , 2017, 1-49	6
188	Metabolic phenotyping (metabonomics/metabolomics) by liquid chromatography-mass spectrometry. <b>2017</b> , 245-265	



187	Standardized Protocols for MS-Based Metabolic Phenotyping. <b>2017</b> , 224-231	1
186	Current state of bioanalytical chromatography in clinical analysis. <b>2018</b> , 143, 1305-1325	30
185	Exometabolomic Profiling of Bacterial Strains as Cultivated Using Arabidopsis Root Extract as the Sole Carbon Source. <b>2018</b> , 31, 803-813	19
184	Dietary Phenolic Compounds in Biological Samples: Current Challenges in Analytical Chemistry. <b>2018</b> , 1-30	
183	Metabolic Profiling: Status, Challenges, and Perspective. <b>2018</b> , 1738, 3-13	5
182	LC-MS Untargeted Analysis. <b>2018</b> , 1738, 99-116	14
181	Application of pathways activity profiling to urine metabolomics for screening Qi-tonifying biomarkers and metabolic pathways of honey-processed Astragalus. <b>2018</b> , 41, 2661-2671	13
180	'Omic' technologies as a helpful tool in radioecological research. <b>2018</b> , 189, 156-167	6
179	A review of nanoscale LC-ESI for metabolomics and its potential to enhance the metabolome coverage. <b>2018</b> , 182, 380-390	56
178	Serum metabolomics analysis for biomarker of Lactobacillus plantarum NCU116 on hyperlipidaemic rat model feed by high fat diet. <b>2018</b> , 42, 171-176	11
177	Ultrasound-assisted aqueous extraction, LC-MS/MS analysis and radiomodulating capability of autochthonous Italian sweet cherry fruits. <b>2018</b> , 9, 1840-1849	7
176	Cigarette smoking is associated with an altered vaginal tract metabolomic profile. <b>2018</b> , 8, 852	51
175	Evaluation of the High-Field Orbitrap Fusion for Compound Annotation in Metabolomics. <b>2018</b> , 90, 3030-3035	14
174	Evaluation of batch effect elimination using quality control replicates in LC-MS metabolite profiling. <b>2018</b> , 1019, 38-48	25
173	Best-Matched Internal Standard Normalization in Liquid Chromatography-Mass Spectrometry Metabolomics Applied to Environmental Samples. <b>2018</b> , 90, 1363-1369	47
172	Thermal degradation of chloramphenicol in model solutions, spiked tissues and incurred samples. <b>2018</b> , 248, 230-237	11
171	The application of ion mobility mass spectrometry to metabolomics. <b>2018</b> , 42, 60-66	65
170	Wine and grape marc spirits metabolomics. <b>2018</b> , 14, 159	11

169	Discovering biomarkers in bladder cancer by metabolomics. <b>2018</b> , 12, 1347-1359	11
168	Omics   Metabolomics: an Analytical Perspective. <b>2018</b> , 82-82	1
167	Stress Biomarkers in Biological Fluids and Their Point-of-Use Detection. <b>2018</b> , 3, 2025-2044	89
166	OBSOLETE: Bioinformatics Principles for Deciphering Cardiovascular Diseases. <b>2018</b> ,	1
165	Sepsis: Personalized Medicine Utilizing 'Omic' Technologies-A Paradigm Shift?. <b>2018</b> , 6,	7
164	Metabonomic Profiling of Chicken Eggs during Storage Using High-Performance Liquid Chromatography-Quadrupole Time-of-Flight Mass Spectrometry. <b>2018</b> , 90, 7489-7494	19
163	Improving metabolome coverage and data quality: advancing metabolomics and lipidomics for biomarker discovery. <b>2018</b> , 54, 6728-6749	27
162	Bioinformatics Principles for Deciphering Cardiovascular Diseases. <b>2018</b> , 273-292	2
161	UHPLC-HRMS-based tissue untargeted metabolomics study of naringin and hesperidin after dietary supplementation in chickens. <b>2018</b> , 269, 276-285	7
160	Metabolomics-based studies in the field of Leishmania/leishmaniasisPeer review under responsibility of Alexandria University Faculty of Medicine.View all notesAvailable online 2 July 2018View all notes. <b>2018</b> , 54, 383-390	6
159	Deciphering hepatocellular carcinoma through metabolomics: from biomarker discovery to therapy evaluation. <b>2018</b> , 10, 715-734	26
158	Comparison of accuracy and precision between multipoint calibration, single point calibration, and relative quantification for targeted metabolomic analysis. <b>2018</b> , 410, 5899-5913	8
157	Endophytic Microbes as a Novel Source for Producing Anticancer Compounds as Multidrug Resistance Modulators. <b>2018</b> , 343-381	1
156	When LC-HRMS metabolomics gets ISO17025 accredited and ready for official controls - application to the screening of forbidden compounds in livestock. <b>2018</b> , 35, 1948-1958	12
155	Antiproliferative Activity of Neem Leaf Extracts Obtained by a Sequential Pressurized Liquid Extraction. <b>2018</b> , 11,	7
154	APD-Containing Cyclolipodepsipeptides Target Mitochondrial Function in Hypoxic Cancer Cells. <b>2018</b> , 25, 1337-1349.e12	17
153	Applicability of supercritical fluid chromatography - mass spectrometry to metabolomics. I - Optimization of separation conditions for the simultaneous analysis of hydrophilic and lipophilic substances. <b>2018</b> , 1562, 96-107	55
152	Molecular Structure Characterization of Riverine and Coastal Dissolved Organic Matter with Ion Mobility Quadrupole Time-of-Flight LCMS (IM Q-TOF LCMS). <b>2018</b> , 52, 7182-7191	34

151	Sulfadiazine Sodium Ameliorates the Metabolomic Perturbation in Mice Infected with <i>Toxoplasma gondii</i> . <b>2019</b> , 63,	5
150	Comparison of Five Extraction Methods for Intracellular Metabolites of <i>Salmonella typhimurium</i> . <b>2019</b> , 76, 1247-1255	3
149	Untargeted metabolomics unveil alterations of biomembranes permeability in human HaCaT keratinocytes upon 60 GHz millimeter-wave exposure. <b>2019</b> , 9, 9343	4
148	NMR-based metabolomic study of <i>asafoetida</i> . <b>2019</b> , 139, 104361	4
147	Evaluation of Direct from Sample Metabolomics of Human Feces Using Rapid Evaporative Ionization Mass Spectrometry. <b>2019</b> , 91, 13448-13457	14
146	Suspect screening of plastic-related chemicals in northern pike ( <i>Esox lucius</i> ) from the St. Lawrence River, Canada. <b>2019</b> , 255, 113223	11
145	The use of metabonomics to uncover differences between the small molecule profiles of eggs from cage and barn housing systems. <b>2019</b> , 100, 165-170	10
144	Selection and characterization of botanical natural products for research studies: a NaPDI center recommended approach. <b>2019</b> , 36, 1196-1221	49
143	Metabolite biomarkers of chlorothalonil exposure in earthworms, coelomic fluid, and coelomocytes. <b>2019</b> , 681, 435-443	14
142	A new optimization strategy for MALDI FTICR MS tissue analysis for untargeted metabolomics using experimental design and data modeling. <b>2019</b> , 411, 3891-3903	9
141	Evaluation of an untargeted nano-liquid chromatography-mass spectrometry approach to expand coverage of low molecular weight dissolved organic matter in Arctic soil. <b>2019</b> , 9, 5810	10
140	Metabolomics characterization of different geographical origins of <i>Flos Carthami</i> using UPLC-QTOF/MS and their correlation with climate factors. <b>2019</b> , 11, 2700-2711	4
139	An Integrated Approach to Plant Biology via Multi-Analogous Methods. <b>2019</b> , 57-126	
138	Instrumentation Applied to Metabolomic Analysis. <b>2019</b> , 239-292	
137	Urine and fecal samples targeted metabolomics of carobs treated rats. <b>2019</b> , 1114-1115, 76-85	10
136	Introducing Metabolomics. <b>2019</b> , 1-56	1
135	Metabolomics Studies of Stress in Plants. <b>2019</b> , 127-178	1
134	Ecological Metabolomics: Challenges and Perspectives. <b>2019</b> , 293-378	

133	Untargeted LC/MS-based metabolic phenotyping (metabonomics/metabolomics): The state of the art. <b>2019</b> , 1117, 136-147	63
132	Current Trends in Cancer Biomarker Discovery Using Urinary Metabolomics: Achievements and New Challenges. <b>2019</b> , 26, 5-28	35
131	Metabolomics: An Emerging Tool for Wine Characterization and the Investigation of Health Benefits. <b>2019</b> , 315-350	4
130	On Problems of the Comprehensive Chemical Profiling of Medicinal Plants. <b>2019</b> , 45, 860-875	1
129	Metabolomics in the study of retinal health and disease. <b>2019</b> , 69, 57-79	48
128	Multidimensional liquid chromatography-mass spectrometry for metabolomic and lipidomic analyses. <b>2019</b> , 120, 115302	33
127	Untargeted food contaminant detection using UHPLC-HRMS combined with multivariate analysis: Feasibility study on tea. <b>2019</b> , 277, 54-62	23
126	Identification of potential human urinary biomarkers for tomato juice intake by mass spectrometry-based metabolomics. <b>2020</b> , 59, 685-697	12
125	The effect of storage temperature on the metabolic profiles derived from chicken eggs. <b>2020</b> , 109, 106930	2
124	Tissue and serum metabolomic phenotyping for diagnosis and prognosis of hepatocellular carcinoma. <b>2020</b> , 146, 1741-1753	23
123	Synergistic therapeutic effects of Duzhong Jiangya Tablets and amlodipine besylate combination in spontaneously hypertensive rats using H-NMR- and MS-based metabolomics. <b>2020</b> , 34, e4741	0
122	Uterine Metabolomics Reveals Protection of Taohong Siwu Decoction Against Abnormal Uterine Bleeding. <b>2020</b> , 11, 507113	5
121	Analytical Metabolomics and Applications in Health, Environmental and Food Science. <b>2020</b> , 1-23	18
120	Multi-omics tools for studying microbial biofilms: current perspectives and future directions. <b>2020</b> , 46, 759-778	12
119	Spatial Metabolomics of the Human Kidney using MALDI Trapped Ion Mobility Imaging Mass Spectrometry. <b>2020</b> , 92, 13084-13091	21
118	Metabolomics: The Stethoscope for the Twenty-First Century. <b>2021</b> , 30, 301-310	17
117	Metabolomes and Lipidomes of the Infective Stages of the Gastrointestinal nematodes, and. <b>2020</b> , 10,	9
116	Miniaturized LC in Molecular Omics. <b>2020</b> , 92, 11485-11497	14

115	Can we trust biomarkers identified using different non-targeted metabolomics platforms? Multi-platform, inter-laboratory comparative metabolomics profiling of lettuce cultivars via UPLC-QTOF-MS. <b>2020</b> , 16, 85	3
114	Joint Synovial Fluid Metabolomics Method to Decipher the Metabolic Mechanisms of Adjuvant Arthritis and Geniposide Intervention. <b>2020</b> , 19, 3769-3778	4
113	Connecting the dots: Advances in modern metabolomics and its application in yeast system. <b>2020</b> , 44, 107616	2
112	Cheating on forensic hair testing? Detection of potential biomarkers for cosmetically altered hair samples using untargeted hair metabolomics. <b>2020</b> , 145, 6586-6599	6
111	UHPLC-QTOFMS-based metabolomic analysis of serum and urine in rats treated with musalais containing varying ethyl carbamate content. <b>2020</b> , 412, 7627-7637	1
110	Emerging Biomarkers for Prediction and Early Diagnosis of Necrotizing Enterocolitis in the Era of Metabolomics and Proteomics. <b>2020</b> , 8, 602255	10
109	Rapid characterization of the chemical constituents of Duzhong Jiangya tablet by HPLC coupled with Fourier transform ion cyclotron resonance mass spectrometry. <b>2020</b> , 43, 4434-4460	
108	Proteomic and metabolomic profiling reveals the involvement of apoptosis in meat quality characteristics of ovine <i>M. longissimus</i> from different callipyge genotypes. <b>2020</b> , 166, 108140	4
107	Anion-exchange chromatography mass spectrometry provides extensive coverage of primary metabolic pathways revealing altered metabolism in IDH1 mutant cells. <b>2020</b> , 3, 247	17
106	Virgin olive oil metabolomics: A review. <b>2020</b> , 1150, 122161	16
105	Thermal degradation of bisphenol A and bisphenol S in water and fish (cod and basa) fillets. <b>2020</b> , 328, 126999	4
104	Analytical techniques in metabolomics. <b>2020</b> , 35-64	1
103	Applicability of Supercritical fluid chromatography-Mass spectrometry to metabolomics. II-Assessment of a comprehensive library of metabolites and evaluation of biological matrices. <b>2020</b> , 1620, 461021	26
102	Discovery and validation of biomarkers for Zhongning goji berries using liquid chromatography mass spectrometry. <b>2020</b> , 1142, 122037	6
101	Describing the fecal metabolome in cryogenically collected samples from healthy participants. <b>2020</b> , 10, 885	8
100	Canine metabolomics advances. <b>2020</b> , 16, 16	14
99	MS and LC libraries for untargeted metabolomics: Enhancing method development and identification confidence. <b>2020</b> , 1145, 122105	2
98	An ion-pair free LC-MS/MS method for quantitative metabolite profiling of microbial bioproduction systems. <b>2021</b> , 222, 121625	5

97	STRATEGIES AND CHALLENGES IN METHOD DEVELOPMENT AND VALIDATION FOR THE ABSOLUTE QUANTIFICATION OF ENDOGENOUS BIOMARKER METABOLITES USING LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY. <b>2021</b> , 40, 31-52		19
96	Research Progress of Urine Biomarkers in the Diagnosis, Treatment, and Prognosis of Bladder Cancer. <b>2021</b> , 1306, 61-80		
95	Metabolomics-based screening analysis of PPCPs in water pretreated with five different SPE columns. <b>2021</b> , 13, 4594-4603		1
94	Human Endogenous Natural Products. <b>2021</b> , 114, 313-337		
93	Honey authenticity: analytical techniques, state of the art and challenges.. <b>2021</b> , 11, 11273-11294		12
92	Chapter 1:State-of-the-art in LCMS Approaches for Probing the Polar Metabolome. <b>2021</b> , 1-26		1
91	Metabolomics: small molecules that matter more. <b>2021</b> , 17, 210-229		11
90	Untargeted Exometabolomics Provides a Powerful Approach to Investigate Biogeochemical Hotspots with Vegetation and Polygon Type in Arctic Tundra Soils. <b>2021</b> , 5, 10		0
89	Chromatography hyphenated to high resolution mass spectrometry in untargeted metabolomics for investigation of food (bio)markers. <b>2021</b> , 135, 116161		14
88	The influence of pregnancy-induced hypertension syndrome on the metabolism of newborns. <b>2021</b> , 10, 296-305		2
87	Serum metabolomic analysis of the anti-diabetic effect of Ginseng berry in type II diabetic rats based on ultra high-performance liquid chromatography-high resolution mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 196, 113897	3-5	5
86	A systematic approach to development of analytical scale and microflow-based liquid chromatography coupled to mass spectrometry metabolomics methods to support drug discovery and development. <b>2021</b> , 1642, 462047		1
85	UPLC-MS-Based Serum Metabolomics Reveals Potential Biomarkers of Ang II-Induced Hypertension in Mice. <b>2021</b> , 8, 683859		
84	Automated Sequential Analysis of Hydrophilic and Lipophilic Fractions of Biological Samples: Increasing Single-Injection Chemical Coverage in Untargeted Metabolomics. <b>2021</b> , 11,		2
83	The effect of obstructive sleep apnea on peripheral blood amino acid and biogenic amine metabolome at multiple time points overnight. <b>2021</b> , 11, 10811		0
82	LC-MSn profiling reveals seasonal variation in the composition of <i>Osmundea pinnatifida</i> (Hudson) Stackhouse. <b>2021</b> , 33, 2443-2458		1
81	The Comprehensive "Omics" Approach from Metabolomics to Advanced Omics for Development of Immune Checkpoint Inhibitors: Potential Strategies for Next Generation of Cancer Immunotherapy. <b>2021</b> , 22,		1
80	Serum metabolomics in chickens infected with <i>Cryptosporidium baileyi</i> . <b>2021</b> , 14, 336		1

79	Using nontargeted LC-MS metabolomics to identify the Association of Biomarkers in pig feces with feed efficiency. <b>2021</b> , 7, 39		3
78	Free Amino Acid Alterations in Patients with Gynecological and Breast Cancer: A Review. <b>2021</b> , 14,		0
77	A systematic approach to metabolic characterization of thyroid-disrupting chemicals and their in vitro biotransformants based on prediction-assisted metabolomic analysis. <b>2021</b> , 1649, 462222		0
76	Genome-Scale Metabolic Modeling of the Human Microbiome in the Era of Personalized Medicine. <b>2021</b> , 75, 199-222		1
75	Evaluation of Cancer Bio-markers through Hyphenated Analytical Techniques. <b>2021</b> , 235-242		
74	LC-MS TECHNIQUE & ITS METABOLOMIC BASED APPROACHES IN SCIENCE AND TECHNOLOGY. <b>2021</b> , 211-216		
73	Metabolomics analysis of grains of wheat infected and noninfected with <i>Tilletia controversa</i> Kbn. <b>2021</b> , 11, 18876		5
72	Investigation on the stability in plant metabolomics with a special focus on freeze-thaw cycles: LC-MS and NMR analysis to Cassiae Semen ( <i>Cassia obtusifolia</i> L.) seeds as a case study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 204, 114243	3.5	2
71	Data analysis strategies for the characterization of chemical contaminant mixtures. Fish as a case study. <b>2021</b> , 155, 106610		4
70	Metabolomic analysis of untargeted bovine uterine secretions in dairy cows with endometritis using ultra-performance liquid chromatography/quadrupole time-of-flight mass spectrometry. <b>2021</b> , 139, 51-58		2
69	A urine and serum metabolomics study of gastroesophageal reflux disease in TCM syndrome differentiation using UPLC-Q-TOF/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 206, 114389	3.5	0
68	Chapter 9:State-of-the-art Mass Spectrometry-based Approaches to Explore the Polar Metabolome: Alzheimer's Disease as a Case Study. <b>2021</b> , 219-241		
67	Metabonomics: analytical techniques and associated chemometrics at a glance. <b>2015</b> , 1277, 1-14		13
66	Dietary Phenolic Compounds in Biological Samples: Current Challenges in Analytical Chemistry. <b>2019</b> , 1929-1958		0
65	Non-targeted screening of plastic-related chemicals in food collected in Montreal, Canada. <b>2020</b> , 326, 126942		11
64	Ultraperformance Liquid Chromatography Coupled with Quadrupole Time-of-Flight Mass Spectrometry-Based Metabolomics and Lipidomics Identify Biomarkers for Efficacy Evaluation of Mesalazine in a Dextran Sulfate Sodium-Induced Ulcerative Colitis Mouse Model. <b>2021</b> , 20, 1371-1381		8
63	Changes in the secondary metabolites and bioactivity of mulberry leaves upon UV-C irradiation. <b>2018</b> , 25, 595-604		1
62	PROBLEMS OF COMPREHENSIVE CHEMICAL PROFILING OF MEDICINAL PLANTS. <b>2018</b> , 5-28		4

61	Integrative metabolomics as emerging tool to study autophagy regulation. <b>2017</b> , 4, 240-258	9
60	Current Progress of Lipid Analysis in Metabolic Diseases by Mass Spectrometry Methods. <b>2019</b> , 26, 60-103	12
59	Metabolomic and Lipidomic Analysis of Bone Marrow Derived Macrophages. <b>2020</b> , 10, e3693	2
58	LC-MS-Based Metabolomic Study of Oleanolic Acid-Induced Hepatotoxicity in Mice. <b>2020</b> , 11, 747	3
57	Analytical Platforms for Mass Spectrometry-Based Metabolomics of Polar and Ionizable Metabolites. <b>2021</b> , 1336, 215-242	1
56	Capillary Electrophoresis-Mass Spectrometry for Metabolomics: Possibilities and Perspectives. <b>2021</b> , 1336, 159-178	2
55	Metabolomics study of (Oliv.) Diels on the abnormal uterine bleeding rats by ultra-performance liquid chromatography-quadrupole-time-of-flight mass spectrometry analysis.. <b>2021</b> , 9, 6596-6609	1
54	Progress and Challenges in Quantifying Carbonyl-Metabolomic Phenomes with LC-MS/MS. <b>2021</b> , 26,	1
53	Metabolomics of Microbial Biofilms. <b>2017</b> , 163-192	
52	CHAPTER 1:Capillary ElectrophoresisMass Spectrometry for Metabolomics From Metabolite Analysis to Metabolic Profiling. <b>2018</b> , 1-20	1
51	Describing the fecal metabolome in cryogenically collected samples from healthy participants.	
50	Investigation of the detoxification effect of on -induced acute toxicity in rats using a HPLC-Q-TOF/MS-based metabolomics approach.. <b>2020</b> , 10, 44398-44407	
49	Identification of metabolites in plasma related to different biological activities of Panax ginseng and American ginseng. <b>2021</b> , e9219	1
48	Comparison of Microflow and Analytical Flow Liquid Chromatography Coupled to Mass Spectrometry Global Metabolomics Methods Using a Urea Cycle Disorder Mouse Model. <b>2021</b> ,	1
47	Integration of a liquid-phase ion trap with a miniature mass spectrometer.. <b>2022</b> , 1193, 339315	1
46	Chemometric-Guided Approaches for Profiling and Authenticating Botanical Materials.. <b>2021</b> , 8, 780228	4
45	Integrated Application of Multi-Omics Approach and Biochemical Assays Provides Insights into Physiological Responses to Saline-Alkaline Stress in the Gills of Crucian Carp (Carassius Auratus).	
44	Metabolomics-based non-targeted screening analysis of 34 PPCPs in bovine and piscine muscles.. <b>2021</b> ,	1



43	Ultrahigh-performance supercritical fluid chromatography - mass spectrometry for the qualitative analysis of metabolites covering a large polarity range.. <b>2022</b> , 1665, 462832	1
42	Integrated application of multi-omics approach and biochemical assays provides insights into physiological responses to saline-alkaline stress in the gills of crucian carp ( <i>Carassius auratus</i> ).. <b>2022</b> , 822, 153622	1
41	OUP accepted manuscript.	1
40	System biology. <b>2022</b> , 3-25	
39	A temporo-spatial pharmacometabolomics method to characterize pharmacokinetics and pharmacodynamics in the brain microregions by using ambient mass spectrometry imaging. <b>2022</b> ,	0
38	Metabolomics analysis of the effects of quercetin on Cd-induced hepatotoxicity in rats.. <b>2022</b> , 1-15	0
37	Single Molecule-Level Detection via Liposome-Based Signal Amplification Mass Spectrometry Counting Assay.. <b>2022</b> ,	0
36	DataSheet_1.pdf. <b>2020</b> ,	
35	Image_1.tif. <b>2020</b> ,	
34	Image_2.tif. <b>2020</b> ,	
33	Image_3.tif. <b>2020</b> ,	
32	Table_1.xlsx. <b>2020</b> ,	
31	Protective Effect of Brassica rapa Polysaccharide against Acute High-Altitude Hypoxia-Induced Brain Injury and Its Metabolomics. <b>2022</b> , 2022, 1-16	
30	A Targeted Metabolomics Approach to Study Secondary Metabolites and Antioxidant Activity in Kinnow Mandarin during Advanced Fruit Maturity. <b>2022</b> , 11, 1410	
29	Effect of Supplementation on Levels of Homovanilic and Vanillylmandelic Acids in Children with Autism Spectrum Disorders. <b>2022</b> , 12, 423	0
28	Identification of coal geographic origin by FTIR coupled with metabolomics analysis. <b>2022</b> , 125, 104224	
27	Targeted Profiling of Rodent Unconjugated Bile Acids by GC-MS to Reveal the Influence of High-Fat Diet.	
26	Development of LC-HRMS untargeted analysis methods for nasal epithelial lining fluid exposomics.	0

- 25 Metabolomics Approach on Non-Targeted Screening of 50 PPCPs in Lettuce and Maize. **2022**, 27, 4711
- 24 Determination of the Time since Deposition of Blood Traces Utilizing a Liquid Chromatography-Mass Spectrometry-Based Proteomics Approach. 1
- 23 Application of metabolomics to explore the automatic oxidation process of hazelnut oil. **2022**, 162, 111888 0
- 22 Introduction to Mass Spectrometry Data. **2022**, 7-19 0
- 21 A Prospective, Case-Control Study of Serum Metabolomics in Neonates with Late-Onset Sepsis and Necrotizing Enterocolitis. **2022**, 11, 5270 0
- 20 Comparative Metabolomics Analysis Reveals the Unique Nutritional Characteristics of Breed and Feed on Muscles in Chinese Taihe Black-Bone Silky Fowl. **2022**, 12, 914 0
- 19 Schiff Base Aggregation-Induced Emission Luminogens for Sensing Applications: A Review. **2022**, 7, 2521-2536 3
- 18 Machine Learning Using Neural Networks for Metabolomic Pathway Analyses. **2023**, 395-415 0
- 17 Apnoea-hypopnoea index of 5 as a metabolomic threshold in patients with sleep complaints 00325-2022 0
- 16 FTIR-based Metabolomics Approach to Discriminate Soybeans from Different Geographical Origins of China. 0
- 15 Metabolomic analysis reveals the quality characteristics of Yi Gong tea leaves at different harvesting periods. 0
- 14 Metabolomics and modelling approaches for systems metabolic engineering. **2022**, 15, e00209 1
- 13 Seaweed metabolomics: A review on its nutrients, bioactive compounds and changes in climate change. **2023**, 163, 112221 1
- 12 Untargeted Metabolomics Pilot Study Using UHPLC-qTOF MS Profile in Sows'Urine Reveals Metabolites of Bladder Inflammation. **2022**, 12, 1186 0
- 11 Omics as a Tool to Help Determine the Effectiveness of Supplements. **2022**, 14, 5305 0
- 10 Comparative Investigation of Chemical Constituents of Kernels, Leaves, Husk, and Bark of *Juglans regia* L., Using HPLC-DAD-ESI-MS/MS Analysis and Evaluation of Their Antioxidant, Antidiabetic, and Anti-Inflammatory Activities. **2022**, 27, 8989 2
- 9 Current Role of Modern Chromatography with Mass Spectrometry and Nuclear Magnetic Resonance Spectroscopy in the Investigation of Biomarkers of Endometriosis. 1-24 0
- 8 Ion-Exchange Chromatography Coupled to Mass Spectrometry in Life Science, Environmental, and Medical Research. **2023**, 95, 152-166 0

- 7 Beyond genomics and proteomics. **2023**, 191-243 ○
- 6 Comparative metabolomic profiling of secondary metabolites in different tissues of *Euryale ferox* and functional characterization of phenylalanine ammonia-lyase. **2023**, 195, 116450 1
- 5 Gas chromatography-mass spectrometry and liquid chromatography-mass spectrometry metabolomics platforms: Tools for plant oligosaccharides analysis. **2023**, 5, 100304 ○
- 4 Clinical Metabolomics: Expanding the Metabolome Coverage Using Advanced Analytical Techniques. **2019**, 465-480 ○
- 3 Targeted Small-Molecule Identification Using Heartcutting Liquid Chromatography-Infrared Ion Spectroscopy. **2023**, 95, 3406-3413 ○
- 2 Metabolomics in Corneal Diseases: A Narrative Review from Clinical Aspects. **2023**, 13, 380 ○
- 1 Probing the polar metabolome by UHPLC-MS. **2023**, 161, 117014 ○