

# Coral Barbas

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9442208/coral-barbas-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. 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.

309  
papers

10,841  
citations

57  
h-index

86  
g-index

345  
ext. papers

12,883  
ext. citations

5.1  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
309	Gut microbiota disturbance during antibiotic therapy: a multi-omic approach. <i>Gut</i> , <b>2013</b> , 62, 1591-601	19.2	371
308	Transcription Factor NRF2 as a Therapeutic Target for Chronic Diseases: A Systems Medicine Approach. <i>Pharmacological Reviews</i> , <b>2018</b> , 70, 348-383	22.5	271
307	Imbalanced OPA1 processing and mitochondrial fragmentation cause heart failure in mice. <i>Science</i> , <b>2015</b> , 350, aad0116	33.3	260
306	Understanding the antimicrobial mechanism of TiO <sub>2</sub> -based nanocomposite films in a pathogenic bacterium. <i>Scientific Reports</i> , <b>2014</b> , 4, 4134	4.9	237
305	Metabolomics in cancer biomarker discovery: current trends and future perspectives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 87, 1-11	3.5	232
304	Vitamin E: action, metabolism and perspectives. <i>Journal of Physiology and Biochemistry</i> , <b>2001</b> , 57, 43-56	5	227
303	Method validation strategies involved in non-targeted metabolomics. <i>Journal of Chromatography A</i> , <b>2014</b> , 1353, 99-105	4.5	201
302	Chromatographic analysis of alpha-tocopherol and related compounds in various matrices. <i>Journal of Chromatography A</i> , <b>2001</b> , 935, 45-69	4.5	174
301	Quality assurance procedures for mass spectrometry untargeted metabolomics. a review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 147, 149-173	3.5	155
300	Antibiotic use and microbiome function. <i>Biochemical Pharmacology</i> , <b>2017</b> , 134, 114-126	6	147
299	Correlative and quantitative <sup>1</sup> H NMR-based metabolomics reveals specific metabolic pathway disturbances in diabetic rats. <i>Analytical Biochemistry</i> , <b>2008</b> , 383, 76-84	3.1	133
298	Bryostatin-1 for latent virus reactivation in HIV-infected patients on antiretroviral therapy. <i>Aids</i> , <b>2016</b> , 30, 1385-92	3.5	118
297	In vitro effects of a flavonoid-rich extract on LDL oxidation. <i>Atherosclerosis</i> , <b>1996</b> , 123, 83-91	3.1	107
296	Gas chromatography-mass spectrometry (GC-MS)-based metabolomics. <i>Methods in Molecular Biology</i> , <b>2011</b> , 708, 191-204	1.4	105
295	From sample treatment to biomarker discovery: A tutorial for untargeted metabolomics based on GC-(EI)-Q-MS. <i>Analytica Chimica Acta</i> , <b>2015</b> , 900, 21-35	6.6	101
294	Capillary electrophoresis-mass spectrometry in food analysis. <i>Electrophoresis</i> , <b>2005</b> , 26, 1306-18	3.6	101
293	Validation of a HPLC quantification of acetaminophen, phenylephrine and chlorpheniramine in pharmaceutical formulations: capsules and sachets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2002</b> , 29, 701-14	3.5	94

292	Controlling the quality of metabolomics data: new strategies to get the best out of the QC sample. <i>Metabolomics</i> , <b>2015</b> , 11, 518-528	4.7	93
291	Metabolic fingerprint of Gestational Diabetes Mellitus. <i>Journal of Proteomics</i> , <b>2014</b> , 103, 57-71	3.9	91
290	Searching for urine biomarkers of bladder cancer recurrence using a liquid chromatography-mass spectrometry and capillary electrophoresis-mass spectrometry metabolomics approach. <i>Journal of Chromatography A</i> , <b>2013</b> , 1318, 163-70	4.5	91
289	High-fat diets induce changes in hippocampal glutamate metabolism and neurotransmission. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2012</b> , 302, E396-402	6	91
288	Capillary electrophoresis-mass spectrometry of basic proteins using a new physically adsorbed polymer coating. Some applications in food analysis. <i>Electrophoresis</i> , <b>2004</b> , 25, 2056-64	3.6	91
287	Analytical protocols based on LC-MS, GC-MS and CE-MS for nontargeted metabolomics of biological tissues. <i>Bioanalysis</i> , <b>2014</b> , 6, 1657-77	2.1	89
286	In-vial dual extraction for direct LC-MS analysis of plasma for comprehensive and highly reproducible metabolic fingerprinting. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5992-9	7.8	83
285	Metabolomic profiling of serum in the progression of Alzheimer's disease by capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , <b>2014</b> , 35, 3321-30	3.6	82
284	Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. <i>Scientific Reports</i> , <b>2015</b> , 5, 11651	4.9	78
283	Short overview on metabolomics approach to study pathophysiology of oxidative stress in cancer. <i>Redox Biology</i> , <b>2018</b> , 14, 47-58	11.3	78
282	Missing value imputation strategies for metabolomics data. <i>Electrophoresis</i> , <b>2015</b> , 36, 3050-60	3.6	77
281	Development and validation of a capillary electrophoresis method for direct measurement of isocitric, citric, tartaric and malic acids as adulteration markers in orange juice. <i>Journal of Chromatography A</i> , <b>2000</b> , 881, 395-401	4.5	77
280	Multipplatform analytical methodology for metabolic fingerprinting of lung tissue. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 10941-8	7.8	76
279	Low arachidonic acid rather than alpha-tocopherol is responsible for the delayed postnatal development in offspring of rats fed fish oil instead of olive oil during pregnancy and lactation. <i>Journal of Nutrition</i> , <b>2000</b> , 130, 2855-65	4.1	76
278	Exploring the human microbiome from multiple perspectives: factors altering its composition and function. <i>FEMS Microbiology Reviews</i> , <b>2017</b> , 41, 453-478	15.1	75
277	Capillary electrophoresis as a metabolomics tool for non-targeted fingerprinting of biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 55, 823-31	3.5	75
276	Rapid and Reliable Identification of Phospholipids for Untargeted Metabolomics with LC-ESI-QTOF-MS/MS. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 3204-16	5.6	74
275	Plasma fingerprinting with GC-MS in acute coronary syndrome. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 1517-24	4.4	74

274	Chiral capillary electrophoresis-mass spectrometry of amino acids in foods. <i>Electrophoresis</i> , <b>2005</b> , 26, 1432-41	3.6	74
273	Multiplatform characterization of dynamic changes in breast milk during lactation. <i>Electrophoresis</i> , <b>2015</b> , 36, 2269-2285	3.6	69
272	Development and validation of extraction methods for determination of zinc and arsenic speciation in soils using focused ultrasound. <i>Analytica Chimica Acta</i> , <b>2001</b> , 442, 305-318	6.6	69
271	Application of new methodologies based on design of experiments, independent component analysis and design space for robust optimization in liquid chromatography. <i>Analytica Chimica Acta</i> , <b>2011</b> , 691, 33-42	6.6	68
270	Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. <i>Scientific Reports</i> , <b>2013</b> , 3, 3554	4.9	65
269	Capillary electrophoresis for the analysis of short-chain organic acids in coffee. <i>Journal of Chromatography A</i> , <b>2004</b> , 1032, 299-304	4.5	65
268	The effects of prebiotics on microbial dysbiosis, butyrate production and immunity in HIV-infected subjects. <i>Mucosal Immunology</i> , <b>2017</b> , 10, 1279-1293	9.2	64
267	Metabolic fingerprinting with capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2008</b> , 1204, 130-9	4.5	64
266	Capillary electrophoresis mass spectrometry as a tool for untargeted metabolomics. <i>Bioanalysis</i> , <b>2017</b> , 9, 99-130	2.1	63
265	Improving metabolite knowledge in stable atherosclerosis patients by association and correlation of GC-MS and <sup>1</sup> H NMR fingerprints. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 5580-9	5.6	63
264	Analysis of carboxylic acids in biological fluids by capillary electrophoresis. <i>Electrophoresis</i> , <b>2005</b> , 26, 2622-36	3.6	63
263	Gut Bacteria Metabolism Impacts Immune Recovery in HIV-infected Individuals. <i>EBioMedicine</i> , <b>2016</b> , 8, 203-216	8.8	63
262	Chiral electromigration methods in food analysis. <i>Electrophoresis</i> , <b>2003</b> , 24, 2431-41	3.6	62
261	Capillary electrophoresis for short-chain organic acids and inorganic anions in different samples. <i>Electrophoresis</i> , <b>2003</b> , 24, 1951-81	3.6	61
260	Ultra rapid liquid chromatography as second dimension in a comprehensive two-dimensional method for the screening of pharmaceutical samples in stability and stress studies. <i>Journal of Chromatography A</i> , <b>2008</b> , 1190, 182-90	4.5	60
259	Low molecular weight organic acids and fatty acids in root exudates of two <i>Lupinus</i> cultivars at flowering and fruiting stages. <i>Phytochemical Analysis</i> , <b>2001</b> , 12, 305-11	3.4	60
258	Altered metabolic and stemness capacity of adipose tissue-derived stem cells from obese mouse and human. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123397	3.7	59
257	Capillary electrophoresis for rapid profiling of organic acidurias. <i>Clinical Chemistry</i> , <b>1998</b> , 44, 1905-1911	5.5	59

256	CEU Mass Mediator 3.0: A Metabolite Annotation Tool. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 797-802	5.6	59
255	Enrichment of vitamin E from <i>Spirulina platensis</i> microalga by SFE. <i>Journal of Supercritical Fluids</i> , <b>2008</b> , 43, 484-489	4.2	58
254	Tocopherol measurement in edible products of vegetable origin. <i>Journal of Chromatography A</i> , <b>2004</b> , 1054, 227-33	4.5	58
253	Breast milk metabolome characterization in a single-phase extraction, multiplatform analytical approach. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8245-52	7.8	57
252	Ranking the impact of human health disorders on gut metabolism: systemic lupus erythematosus and obesity as study cases. <i>Scientific Reports</i> , <b>2015</b> , 5, 8310	4.9	56
251	Metabolomics studies in brain tissue: A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 130, 141-168	3.5	56
250	Capillary electrophoresis of glutathione to monitor oxidative stress and response to antioxidant treatments in an animal model. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2005</b> , 822, 61-9	3.2	55
249	D-serine plasma concentration is a potential biomarker of (R,S)-ketamine antidepressant response in subjects with treatment-resistant depression. <i>Psychopharmacology</i> , <b>2015</b> , 232, 399-409	4.7	52
248	Multi-analytical platform metabolomic approach to study miltefosine mechanism of action and resistance in <i>Leishmania</i> . <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 3459-76	4.4	51
247	Method development and validation for rat serum fingerprinting with CE-MS: application to ventilator-induced-lung-injury study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 4849-58	4.4	51
246	From numbers to a biological sense: How the strategy chosen for metabolomics data treatment may affect final results. A practical example based on urine fingerprints obtained by LC-MS. <i>Electrophoresis</i> , <b>2013</b> , 34, 2812-26	3.6	51
245	Metabolomic approach with LC-QTOF to study the effect of a nutraceutical treatment on urine of diabetic rats. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 837-44	5.6	50
244	A review of validated biomarkers obtained through metabolomics. <i>Expert Review of Molecular Diagnostics</i> , <b>2018</b> , 18, 557-575	3.8	50
243	A review of blood sample handling and pre-processing for metabolomics studies. <i>Electrophoresis</i> , <b>2017</b> , 38, 2232-2241	3.6	49
242	A novel glucagon-like peptide 1/glucagon receptor dual agonist improves steatohepatitis and liver regeneration in mice. <i>Hepatology</i> , <b>2017</b> , 65, 950-968	11.2	49
241	Sensitive micellar electrokinetic chromatography-laser-induced fluorescence method to analyze chiral amino acids in orange juices. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 5288-93	5.7	49
240	Eplerenone attenuated cardiac steatosis, apoptosis and diastolic dysfunction in experimental type-II diabetes. <i>Cardiovascular Diabetology</i> , <b>2013</b> , 12, 172	8.7	48
239	Metabolomics with LC-QTOF-MS permits the prediction of disease stage in aortic abdominal aneurysm based on plasma metabolic fingerprint. <i>PLoS ONE</i> , <b>2012</b> , 7, e31982	3.7	48

238	Metabolomics as a tool for drug discovery and personalised medicine. A review. <i>Current Topics in Medicinal Chemistry</i> , <b>2014</b> , 14, 2627-36	3	48
237	Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis. <i>Nature Catalysis</i> , <b>2020</b> , 3, 319-328	36.5	48
236	A pilot study of plasma metabolomic patterns from patients treated with ketamine for bipolar depression: evidence for a response-related difference in mitochondrial networks. <i>British Journal of Pharmacology</i> , <b>2014</b> , 171, 2230-42	8.6	47
235	Flow Cytometry Has a Significant Impact on the Cellular Metabolome. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 169-181	5.6	47
234	Knowledge-based metabolite annotation tool: CEU Mass Mediator. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 154, 138-149	3.5	46
233	Short overview on metabolomic approach and redox changes in psychiatric disorders. <i>Redox Biology</i> , <b>2018</b> , 14, 178-186	11.3	45
232	Chromatography-based on- and in-line pre-concentration methods in capillary electrophoresis. <i>Journal of Proteomics</i> , <b>2007</b> , 70, 289-97		44
231	LC-MS metabolomics of polar compounds. <i>Bioanalysis</i> , <b>2012</b> , 4, 1235-43	2.1	43
230	Optimization of the separation lactic acid enantiomers in body fluids by capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 766, 235-42	2.2	43
229	Validation of an HPLC method for the quantification of ambroxol hydrochloride and benzoic acid in a syrup as pharmaceutical form stress test for stability evaluation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2001</b> , 24, 1005-10	3.5	43
228	Multi-omics analysis points to altered platelet functions in severe food-associated respiratory allergy. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2018</b> , 73, 2137-2149	9.3	42
227	Metaproteomics and metabolomics analyses of chronically petroleum-polluted sites reveal the importance of general anaerobic processes uncoupled with degradation. <i>Proteomics</i> , <b>2015</b> , 15, 3508-20	4.8	42
226	CE-ESI-MS metabolic fingerprinting of Leishmania resistance to antimony treatment. <i>Electrophoresis</i> , <b>2012</b> , 33, 1901-10	3.6	42
225	Identification of oxidized proteins in rat plasma using avidin chromatography and tandem mass spectrometry. <i>Proteomics</i> , <b>2008</b> , 8, 1516-27	4.8	42
224	Metabolic fingerprinting of Schistosoma mansoni infection in mice urine with capillary electrophoresis. <i>Electrophoresis</i> , <b>2008</b> , 29, 3201-6	3.6	42
223	CE versus HPLC for the dissolution test in a pharmaceutical formulation containing acetaminophen, phenylephrine and chlorpheniramine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2004</b> , 35, 769-775	3.5	42
222	Characterization of proteins from Spirulina platensis microalga using capillary electrophoresis-ion trap-mass spectrometry and capillary electrophoresis-time of flight-mass spectrometry. <i>Electrophoresis</i> , <b>2005</b> , 26, 2674-83	3.6	42
221	Renal tubule Cpt1a overexpression protects from kidney fibrosis by restoring mitochondrial homeostasis. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	42

220	Looking into aqueous humor through metabolomics spectacles - exploring its metabolic characteristics in relation to myopia. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 127, 18-25 <sup>3.5</sup>	42
219	Plasma and urine metabolic fingerprinting of type 1 diabetic children. <i>Electrophoresis</i> , <b>2013</b> , 34, 2882-90 <sup>3.6</sup>	41
218	Application of stepwise discriminant analysis to classify commercial orange juices using chiral micellar electrokinetic chromatography-laser induced fluorescence data of amino acids. <i>Electrophoresis</i> , <b>2004</b> , 25, 2885-91	3.6 41
217	Recent Developments along the Analytical Process for Metabolomics Workflows. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 203-226	7.8 41
216	Metabolomics and neuroanatomical evaluation of post-mortem changes in the hippocampus. <i>Brain Structure and Function</i> , <b>2017</b> , 222, 2831-2853	4 40
215	Multiplatform plasma fingerprinting in cancer cachexia: a pilot observational and translational study. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2018</b> , 9, 348-357	10.3 39
214	Insulin resistance in prepubertal obese children correlates with sex-dependent early onset metabolomic alterations. <i>International Journal of Obesity</i> , <b>2016</b> , 40, 1494-1502	5.5 39
213	<i>Clostridium difficile</i> heterogeneously impacts intestinal community architecture but drives stable metabolome responses. <i>ISME Journal</i> , <b>2015</b> , 9, 2206-20	11.9 38
212	Combination of LC-MS- and GC-MS-based metabolomics to study the effect of ozonated autohemotherapy on human blood. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 6231-41	5.6 37
211	Optimization and validation of a method for the determination of caffeine, 8-chlorotheophylline and diphenhydramine by isocratic high-performance liquid chromatography. Stress test for stability evaluation. <i>Journal of Chromatography A</i> , <b>2000</b> , 870, 97-103	4.5 37
210	HIV infection results in metabolic alterations in the gut microbiota different from those induced by other diseases. <i>Scientific Reports</i> , <b>2016</b> , 6, 26192	4.9 36
209	Capillary electrophoresis for short chain organic acids in faeces Reference values in a Mediterranean elderly population. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 46, 356-61	3.5 36
208	LC/MS for the degradation profiling of cough-cold products under forced conditions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2004</b> , 35, 1035-45	3.5 35
207	Urinary analysis of nephrolithiasis markers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 781, 433-55	3.2 35
206	Validated capillary electrophoresis method for small-anions measurement in wines. <i>Electrophoresis</i> , <b>2003</b> , 24, 2235-43	3.6 35
205	Capillary electrophoresis determination of loratadine and related impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2003</b> , 31, 499-506	3.5 35
204	Metabolomic approach with LC-MS reveals significant effect of pressure on divers' plasma. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 4131-7	5.6 33
203	Ferritin H Deficiency in Myeloid Compartments Dysregulates Host Energy Metabolism and Increases Susceptibility to Infection. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 860	8.4 32

202	Metabolomic assessment with CE-MS of the nutraceutical effect of <i>Cystoseira</i> spp extracts in an animal model. <i>Electrophoresis</i> , <b>2011</b> , 32, 2055-62	3.6	32
201	Poly(ethyleneglycol) column for the determination of acetaminophen, phenylephrine and chlorpheniramine in pharmaceutical formulations. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2003</b> , 785, 237-43	3.2	32
200	GC-MS based Gestational Diabetes Mellitus longitudinal study: Identification of 2-and 3-hydroxybutyrate as potential prognostic biomarkers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 144, 90-98	3.5	31
199	Simultaneous online SPE-HPLC-MS/MS analysis of docetaxel, temsirolimus and sirolimus in whole blood and human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2013</b> , 921-922, 35-42	3.2	31
198	Simultaneous determination of vitamins A and E in rat tissues by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>1997</b> , 778, 415-20	4.5	31
197	Combining peptide modeling and capillary electrophoresis-mass spectrometry for characterization of enzymes cleavage patterns: recombinant versus natural bovine pepsin A. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 7709-16	7.8	31
196	Direct measurement of homovanillic, vanillylmandelic and 5-hydroxyindoleacetic acids in urine by capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2000</b> , 871, 341-50	4.5	31
195	Quantitative Determination of Short-Chain Organic Acids in Urine by Capillary Electrophoresis. <i>Clinical Chemistry</i> , <b>1998</b> , 44, 1340-1342	5.5	31
194	A Multiplatform Metabolomic Approach to the Basis of Antimonial Action and Resistance in <i>Leishmania infantum</i> . <i>PLoS ONE</i> , <b>2015</b> , 10, e0130675	3.7	31
193	Metabolomic-Driven Elucidation of Serum Disturbances Associated with Alzheimer's Disease and Mild Cognitive Impairment. <i>Current Alzheimer Research</i> , <b>2016</b> , 13, 641-53	3	30
192	A Single In-Vial Dual Extraction Strategy for the Simultaneous Lipidomics and Proteomics Analysis of HDL and LDL Fractions. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 1762-75	5.6	30
191	Phagosomal removal of fungal melanin reprograms macrophage metabolism to promote antifungal immunity. <i>Nature Communications</i> , <b>2020</b> , 11, 2282	17.4	29
190	Metabolomics reveals metabolite changes in acute pulmonary embolism. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 805-16	5.6	29
189	Interlaboratory study to evaluate the robustness of capillary electrophoresis-mass spectrometry for peptide mapping. <i>Journal of Separation Science</i> , <b>2015</b> , 38, 3262-3270	3.4	29
188	Allergic asthma: an overview of metabolomic strategies leading to the identification of biomarkers in the field. <i>Clinical and Experimental Allergy</i> , <b>2017</b> , 47, 442-456	4.1	28
187	Study of the capillary electrophoresis profile of intact E1-acid glycoprotein isoforms as a biomarker of atherothrombosis. <i>Analyst</i> , <b>2011</b> , 136, 816-22	5	28
186	LC determination of loratadine and related impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2002</b> , 29, 35-41	3.5	28
185	New approaches with two cyano columns to the separation of acetaminophen, phenylephrine, chlorpheniramine and related compounds. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2005</b> , 817, 159-65	3.2	28



184	Development and validation of a capillary electrophoresis method for the measurement of short-chain organic acids in natural rubber latex. <i>Journal of Chromatography A</i> , <b>2000</b> , 894, 135-44	4.5	28
183	Interplay between gut microbiota metabolism and inflammation in HIV infection. <i>ISME Journal</i> , <b>2018</b> , 12, 1964-1976	11.9	28
182	Fingerprinting-based metabolomic approach with LC-MS to sleep apnea and hypopnea syndrome: a pilot study. <i>Electrophoresis</i> , <b>2013</b> , 34, 2873-81	3.6	27
181	Bidirectional correlation of NMR and capillary electrophoresis fingerprints: a new approach to investigating <i>Schistosoma mansoni</i> infection in a mouse model. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 203-10	7.8	27
180	Capillary electrophoresis as a metabolomic tool in antioxidant therapy studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 47, 388-98	3.5	27
179	Uptake and distribution of zinc, cadmium, lead and copper in <i>Brassica napus</i> var. <i>oleifera</i> and <i>Helianthus annuus</i> grown in contaminated soils. <i>International Journal of Phytoremediation</i> , <b>2003</b> , 5, 153-67	7.9	27
178	Capillary electrophoresis for evaluating orange juice authenticity: a study on Spanish oranges. <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 9-13	5.7	27
177	New Biochemical Insights into the Mechanisms of Pulmonary Arterial Hypertension in Humans. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160505	3.7	27
176	Context-specific metabolic network reconstruction of a naphthalene-degrading bacterial community guided by metaproteomic data. <i>Bioinformatics</i> , <b>2015</b> , 31, 1771-9	7.2	26
175	Metabolites secreted by human atherothrombotic aneurysms revealed through a metabolomic approach. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 1374-82	5.6	26
174	Development of a frit-free SPE-based in-column preconcentration system for capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2007</b> , 44, 471-6	3.5	26
173	Capillary electrophoresis for caffeine and pyroglutamate determination in coffees study of the in vivo effect on learning and locomotor activity in mice. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2006</b> , 41, 1095-100	3.5	26
172	Large-volume sample stacking-capillary electrophoresis used for the determination of 3-nitrotyrosine in rat urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2004</b> , 809, 147-52	3.2	26
171	LC determination of impurities in azithromycin tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2003</b> , 33, 211-7	3.5	26
170	Differentiating signals to make biological sense - A guide through databases for MS-based non-targeted metabolomics. <i>Electrophoresis</i> , <b>2017</b> , 38, 2242-2256	3.6	25
169	In-source fragmentation and correlation analysis as tools for metabolite identification exemplified with CE-TOF untargeted metabolomics. <i>Electrophoresis</i> , <b>2015</b> , 36, 2188-2195	3.6	25
168	Rapid analytical procedure for neomycin determination in ointments by CE with direct UV detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2009</b> , 49, 1303-7	3.5	25
167	Evolution of oxidative stress parameters and response to oral vitamins E and C in streptozotocin-induced diabetic rats. <i>Journal of Pharmacy and Pharmacology</i> , <b>2008</b> , 60, 871-8	4.8	25

166	New perspective of diabetes response to an antioxidant treatment through metabolic fingerprinting of urine by capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2008</b> , 1187, 267-74	4.5	25
165	Systematic comparison of different functionality columns for a classical pharmaceutical problem. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2006</b> , 40, 262-70	3.5	25
164	Effect of different doses of vitamin E on the incidence of malformations in pregnant diabetic rats. <i>Annals of Nutrition and Metabolism</i> , <b>2003</b> , 47, 6-10	4.5	25
163	Fast and sensitive capillary electrophoresis method to quantitatively monitor ibuprofen enantiomers released from polymeric drug delivery systems. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 767, 35-43	3.2	25
162	New insight on obesity and adipose-derived stem cells using comprehensive metabolomics. <i>Biochemical Journal</i> , <b>2016</b> , 473, 2187-203	3.8	25
161	In-vial dual extraction liquid chromatography coupled to mass spectrometry applied to streptozotocin-treated diabetic rats. Tips and pitfalls of the method. <i>Journal of Chromatography A</i> , <b>2013</b> , 1304, 52-60	4.5	24
160	Dunaliella salina extract effect on diabetic rats: metabolic fingerprinting and target metabolite analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2009</b> , 49, 786-92	3.5	24
159	Simplified method for vitamin E determination in rat adipose tissue and mammary glands by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , <b>1998</b> , 823, 483-7	4.5	24
158	Uptake of alpha-tocopherol by the mammary gland but not by white adipose tissue is dependent on lipoprotein lipase activity around parturition and during lactation in the rat. <i>Metabolism: Clinical and Experimental</i> , <b>2002</b> , 51, 1444-51	12.7	24
157	Functional microbiome deficits associated with ageing: Chronological age threshold. <i>Aging Cell</i> , <b>2020</b> , 19, e13063	9.9	24
156	Metabolomic and glycomic findings in posttraumatic stress disorder. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2019</b> , 88, 181-193	5.5	23
155	Urinary metabolic phenotyping the slc26a6 (chloride-oxalate exchanger) null mouse model. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 4425-35	5.6	23
154	Proteomic and metabolomic profiles in atherothrombotic vascular disease. <i>Current Atherosclerosis Reports</i> , <b>2010</b> , 12, 202-8	6	23
153	LC methods for acyclovir and related impurities determination. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2005</b> , 37, 687-94	3.5	23
152	Validated HPLC method for quantifying permethrin in pharmaceutical formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2001</b> , 24, 999-1004	3.5	23
151	"Gear mechanism" of bariatric interventions revealed by untargeted metabolomics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 151, 219-226	3.5	22
150	Metabolomic Fingerprinting in the Comprehensive Study of Liver Changes Associated with Onion Supplementation in Hypercholesterolemic Wistar Rats. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	22
149	Differential Gene Expression and Infection Profiles of Cutaneous and Mucosal Leishmania braziliensis Isolates from the Same Patient. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0004018	4.8	22

148	Guidelines for reporting the use of capillary electrophoresis in proteomics. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 654-5	44.5	22
147	Targeted and non-targeted metabolic time trajectory in plasma of patients after acute coronary syndrome. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2011</b> , 56, 343-51	3.5	22
146	Optimized and validated HPLC method for alpha- and gamma-tocopherol measurement in <i>Laurus nobilis</i> leaves. New data on tocopherol content. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 5196-201	5.7	22
145	Direct liquid chromatography method for retinol, alpha- and gamma-tocopherols in rat plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2004</b> , 800, 225-30 <sup>2</sup>	3.2	21
144	Detection and quantitation of a bioactive compound in <i>Vicia narbonensis</i> L. seeds by capillary electrophoresis-mass spectrometry: a comparative study with UV detection. <i>Electrophoresis</i> , <b>2005</b> , 26, 2351-9	3.6	21
143	Metabolic changes during respiratory syncytial virus infection of epithelial cells. <i>PLoS ONE</i> , <b>2020</b> , 15, e0230844	3.7	20
142	Metabolomic approach to the nutraceutical effect of rosemary extract plus $\Omega$ 3 PUFAs in diabetic children with capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2010</b> , 53, 1298-304	3.5	20
141	Evaluation of filter paper collection of urine samples for detection and measurement of organic acidurias by capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 780, 73-82	3.2	20
140	Simple high-performance liquid chromatography method for alpha-tocopherol measurement in <i>Rosmarinus officinalis</i> leaves. New data on alpha-tocopherol content. <i>Journal of Chromatography A</i> , <b>2001</b> , 919, 305-11	4.5	20
139	Analysis of antioxidants from orange juice obtained by countercurrent supercritical fluid extraction, using micellar electrokinetic chromatography and reverse-phase liquid chromatography. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 6648-52	5.7	20
138	Determination of alpha-tocopherol and alpha-tocopherol acetate in diets of experimental animals. Study of stability in the diets. <i>Journal of Chromatography A</i> , <b>1999</b> , 839, 93-9	4.5	20
137	Separation and identification of organic acids in root exudates of <i>Lupinus luteus</i> by capillary zone electrophoresis <b>1999</b> , 10, 55-59		20
136	<sup>1</sup> H NMR global metabolic phenotyping of acute pancreatitis in the emergency unit. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 5362-75	5.6	19
135	Major degradation product identified in several pharmaceutical formulations against the common cold. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 471-7	7.8	19
134	Comprehensive Examination of the Mouse Lung Metabolome Following Infection Using a Multiplatform Mass Spectrometry Approach. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 2053-2070	5.6	19
133	Metabolomics analysis of microbiota-gut-brain axis in neurodegenerative and psychiatric diseases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 194, 113681	3.5	19
132	A Metabolomic Approach to the Pathogenesis of Ventilator-induced Lung Injury. <i>Anesthesiology</i> , <b>2014</b> , 120, 694-702	4.3	18
131	LC-MS-based metabolomics identification of novel biomarkers of chorioamnionitis and its associated perinatal neurological damage. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 1432-44	5.6	18

130	Metabolomic study of plasma of patients with abdominal aortic aneurysm. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 403, 1651-60	4.4	18
129	Measurement of nephrolithiasis urinary markers by capillary electrophoresis. <i>Biomedical Applications</i> , <b>2001</b> , 755, 287-95		18
128	Determination of organic peroxides in reversed micelles with a poly-N-methylpyrrole horseradish peroxidase amperometric biosensor. <i>Analytica Chimica Acta</i> , <b>2001</b> , 448, 9-17	6.6	18
127	Capillary Electrophoresis-Mass Spectrometry at Trial by Metabo-Ring: Effective Electrophoretic Mobility for Reproducible and Robust Compound Annotation. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14103-14112	7.8	18
126	Chronic Diseases and Lifestyle Biomarkers Identification by Metabolomics. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 965, 235-263	3.6	17
125	Mass spectrometry based proteomics and metabolomics in personalized oncology. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2020</b> , 1866, 165690	6.9	17
124	Complex Interplay between Sphingolipid and Sterol Metabolism Revealed by Perturbations to the Leishmania Metabolome Caused by Miltefosine. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	17
123	Effects of HIV, antiretroviral therapy and prebiotics on the active fraction of the gut microbiota. <i>Aids</i> , <b>2018</b> , 32, 1229-1237	3.5	17
122	Fructose during pregnancy provokes fetal oxidative stress: The key role of the placental heme oxygenase-1. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 2700-2711	5.9	17
121	Capillary electrophoresis reveals polyamine metabolism modulation in Leishmania ( <i>Leishmania</i> ) amazonensis wild-type and arginase-knockout mutants under arginine starvation. <i>Electrophoresis</i> , <b>2015</b> , 36, 2314-2323	3.6	17
120	Evaluation of diabetes-related short-chain organic acids in rat plasma by capillary electrophoresis. <i>Journal of Chromatography A</i> , <b>2004</b> , 1051, 199-205	4.5	17
119	Metabolomic Study of Hibernating Syrian Hamster Brains: In Search of Neuroprotective Agents. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 1175-1190	5.6	17
118	Metabolomics allows the discrimination of the pathophysiological relevance of hyperinsulinism in obese prepubertal children. <i>International Journal of Obesity</i> , <b>2017</b> , 41, 1473-1480	5.5	16
117	The autocorrelation matrix probing biochemical relationships after metabolic fingerprinting with CE. <i>Electrophoresis</i> , <b>2009</b> , 30, 1221-7	3.6	16
116	Metabolomic-Based Methods in Diagnosis and Monitoring Infection Progression. <i>Experientia Supplementum (2012)</i> , <b>2018</b> , 109, 283-315	2.2	15
115	Effect of a nutraceutical treatment on diabetic rats with targeted and CE-MS non-targeted approaches. <i>Metabolomics</i> , <b>2013</b> , 9, 188-202	4.7	15
114	Metabolomics of diet-related diseases using mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2013</b> , 52, 61-73	14.6	15
113	Unveiling differences between patients with acute coronary syndrome with and without ST elevation through fingerprinting with CE-MS and HILIC-MS targeted analysis. <i>Electrophoresis</i> , <b>2015</b> , 36, 2303-2313	3.6	15

112	Chemometric analysis of urine fingerprints acquired by liquid chromatography-mass spectrometry and capillary electrophoresis: application to the schistosomiasis mouse model. <i>Electrophoresis</i> , <b>2010</b> , 31, 2349-55	3.6	15
111	CE as orthogonal technique to HPLC for alprazolam degradation product identification. <i>Electrophoresis</i> , <b>2006</b> , 27, 2360-6	3.6	15
110	Exploring novel systemic biomarker approaches in grass-pollen sublingual immunotherapy using omics. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> , 76, 1199-1212	9.3	15
109	Metabolomics reveals citric acid secretion in mechanically-stimulated osteocytes is inhibited by high glucose. <i>Scientific Reports</i> , <b>2019</b> , 9, 2295	4.9	14
108	Evaluation of onion as a functional ingredient in the prevention of metabolic impairments associated to diet-induced hypercholesterolaemia using a multiplatform approach based on LC-MS, CE-MS and GC-MS. <i>Journal of Functional Foods</i> , <b>2015</b> , 19, 363-375	5.1	14
107	Metabolomic evaluation of Mitomycin C and rapamycin in a personalized treatment of pancreatic cancer. <i>Pharmacology Research and Perspectives</i> , <b>2014</b> , 2, e00067	3.1	14
106	To treat or not to treat: metabolomics reveals biomarkers for treatment indication in chronic lymphocytic leukaemia patients. <i>Oncotarget</i> , <b>2016</b> , 7, 22324-38	3.3	14
105	Cyclobenzaprine Raises ROS Levels in Leishmania infantum and Reduces Parasite Burden in Infected Mice. <i>PLoS Neglected Tropical Diseases</i> , <b>2017</b> , 11, e0005281	4.8	13
104	Monitoring ibuprofen enantiomers released from polymeric systems. <i>European Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 16, 75-82	5.1	13
103	Alpha-tocopherol concentration in fetal and maternal tissues of pregnant rats supplemented with alpha-tocopherol. <i>Annals of Nutrition and Metabolism</i> , <b>1999</b> , 43, 107-12	4.5	13
102	Metabolite fingerprinting by capillary electrophoresis-mass spectrometry. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1198, 107-23	1.4	13
101	Molecular Basis of the Leishmanicidal Activity of the Antidepressant Sertraline as a Drug Repurposing Candidate. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	13
100	Development of chromatographic methods for the determination of genotoxic impurities in cloperastine fendizoate. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2012</b> , 61, 230-6	3.5	12
99	Chemometric and biological validation of a capillary electrophoresis metabolomic experiment of Schistosoma mansoni infection in mice. <i>Electrophoresis</i> , <b>2010</b> , 31, 2338-48	3.6	12
98	Fingerprinting of human bile during liver transplantation by capillary electrophoresis. <i>Journal of Separation Science</i> , <b>2008</b> , 31, 3058-64	3.4	12
97	Tandem column for the simultaneous determination of arginine, ibuprofen and related impurities by liquid chromatography. <i>Journal of Chromatography A</i> , <b>2006</b> , 1119, 238-45	4.5	12
96	Tocopherol fate in plasma and liver of streptozotocin-treated rats that orally received antioxidants and Spirulina extracts. <i>International Journal for Vitamin and Nutrition Research</i> , <b>2007</b> , 77, 263-71	1.7	12
95	Metabolomic Profile of BALB/c Macrophages Infected with : Deciphering L-Arginine Metabolism. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	12

94	In-and-Out Molecular Changes Linked to the Type 2 Diabetes Remission after Bariatric Surgery: An Influence of Gut Microbes on Mitochondria Metabolism. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	12
93	Metabolite Annotation and Identification. <i>Comprehensive Analytical Chemistry</i> , <b>2018</b> , 82, 415-445	1.9	12
92	Multiplatform metabolomic fingerprinting as a tool for understanding hypercholesterolemia in Wistar rats. <i>European Journal of Nutrition</i> , <b>2016</b> , 55, 997-1010	5.2	11
91	Oxidized glycerophosphatidylcholines in diabetes through non-targeted metabolomics: Their annotation and biological meaning. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2019</b> , 1120, 62-70	3.2	11
90	Metabolic Clustering Analysis as a Strategy for Compound Selection in the Drug Discovery Pipeline for Leishmaniasis. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1361-1369	4.9	11
89	Characterization and annotation of oxidized glycerophosphocholines for non-targeted metabolomics with LC-QTOF-MS data. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1037, 358-368	6.6	11
88	Metabolic and evolutionary patterns in the extremely acidophilic archaeon <i>Ferroplasma acidiphilum</i> Y. <i>Scientific Reports</i> , <b>2017</b> , 7, 3682	4.9	11
87	Capillary electrophoresis for the determination of organic acidurias in body fluids: a review. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2003</b> , 41, 755-61	5.9	11
86	Data-dependent normalization strategies for untargeted metabolomics-a case study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 6391-6405	4.4	11
85	Unveiling the Fragmentation Mechanisms of Modified Amino Acids as the Key for Their Targeted Identification. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4848-4857	7.8	10
84	Target and untargeted GC-MS based metabolomic study of mouse optic nerve and its potential in the study of neurological visual diseases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 153, 44-56	3.5	10
83	Isolation, identification and determination of the major degradation product in alprazolam tablets during their stability assay. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2007</b> , 44, 404-13	3.5	10
82	Quantitative determination of short-chain organic acids in urine by capillary electrophoresis. <i>Clinical Chemistry</i> , <b>1998</b> , 44, 1340-2	5.5	10
81	A metabolomic approach shows sphingosine 1-phosphate and lysophospholipids as mediators of the therapeutic effect of liver growth factor in emphysema. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 139, 238-246	3.5	9
80	The Type 2 Diabetes Susceptibility PROX1 Gene Variants Are Associated with Postprandial Plasma Metabolites Profile in Non-Diabetic Men. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	9
79	Stereochemical and structural effects of (2R,6R)-hydroxynorketamine on the mitochondrial metabolome in PC-12 cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2018</b> , 1862, 1505-1515	4	9
78	Proteomics and metabolomics in biomarker discovery for cardiovascular diseases: progress and potential. <i>Expert Review of Proteomics</i> , <b>2016</b> , 13, 857-71	4.2	9
77	Validated flow-injection method for rapid aluminium determination in anti-perspirants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 48, 340-6	3.5	9

76	Chiral analysis of aliphatic short chain organic acids by capillary electrophoresis. <i>Journal of Separation Science</i> , <b>2002</b> , 25, 1190-1196	3.4	9
75	Bioprospecting Reveals Class III Transaminases Converting Bulky Ketones and Environmentally Relevant Polyamines. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	9
74	Capillary Electrophoresis Mass Spectrometry as a Tool for Untargeted Metabolomics. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1978, 55-77	1.4	8
73	Quantitative metabolic profiling of urinary eicosanoids for clinical phenotyping. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 1164-1173	6.3	8
72	Development and validation of a HPLC method for the determination of sertraline and three non-chiral related impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2010</b> , 53, 122-9	3.5	8
71	Optimization in sample stacking for the measurement of short chain organic acids in serum of natural rubber latex by capillary electrophoresis. <i>Analytica Chimica Acta</i> , <b>2003</b> , 482, 37-45	6.6	8
70	High-performance liquid chromatographic analysis of dextromethorphan, guaifenesin and benzoate in a cough syrup for stability testing <b>2004</b> , 1048, 207-207		8
69	Untargeted metabolomics: an overview of its usefulness and future potential in prenatal diagnosis. <i>Expert Review of Proteomics</i> , <b>2018</b> , 15, 809-816	4.2	8
68	Phenotyping of gut microbiota: Focus on capillary electrophoresis. <i>Electrophoresis</i> , <b>2017</b> , 38, 2275-2286	3.6	7
67	Metabolomics Reveal Altered Postprandial Lipid Metabolism After a High-Carbohydrate Meal in Men at High Genetic Risk of Diabetes. <i>Journal of Nutrition</i> , <b>2019</b> , 149, 915-922	4.1	7
66	Insulin Resistance in Obese Children: What Can Metabolomics and Adipokine Modelling Contribute?. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	7
65	Dysregulation of glycerophospholipid metabolism during Behçet's disease contributes to a pro-inflammatory phenotype of circulating monocytes. <i>Journal of Translational Autoimmunity</i> , <b>2020</b> , 3, 100056	4.1	7
64	Complementary Methodologies To Investigate Human Gut Microbiota in Host Health, Working towards Integrative Systems Biology. <i>Journal of Bacteriology</i> , <b>2018</b> , 200,	3.5	7
63	Metabolomics: Bridging Chemistry and Biology in Drug Discovery and Development. <i>Current Pharmacology Reports</i> , <b>2017</b> , 3, 16-25	5.5	6
62	Insights into the degradation capacities of <i>Amycolatopsis tucumanensis</i> DSM 45259 guided by microarray data. <i>World Journal of Microbiology and Biotechnology</i> , <b>2016</b> , 32, 201	4.4	6
61	Ultrasound-assisted extraction for rapid determination of Zn, Cu, Fe, Mg and Mn in liver of diabetic rats under different antioxidant treatments. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2009</b> , 49, 1040-4	3.5	6
60	Differential Effects of a Glucagon-Like Peptide 1 Receptor Agonist in Non-Alcoholic Fatty Liver Disease and in Response to Hepatectomy. <i>Scientific Reports</i> , <b>2018</b> , 8, 16461	4.9	6
59	LAS: A Lipid Annotation Service Capable of Explaining the Annotations It Generates. <i>Computational and Structural Biotechnology Journal</i> , <b>2019</b> , 17, 1113-1122	6.8	5

58	Plasma metabolomic fingerprint of advanced cirrhosis stages among HIV/HCV-coinfected and HCV-monoinfected patients. <i>Liver International</i> , <b>2020</b> , 40, 2215-2227	7.9	5
57	Plasma Metabolome Alterations Associated with Extrauterine Growth Restriction. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	5
56	Metabolomics as a tool to evaluate the toxicity of formulations containing amphotericin B, an antileishmanial drug. <i>Toxicology Research</i> , <b>2016</b> , 5, 1720-1732	2.6	5
55	Capillary electrophoresis for the determination of new markers of natural latex quality. <i>Journal of Chromatography A</i> , <b>2002</b> , 949, 367-72	4.5	5
54	Tolerance of Some Mediterranean Crops to Copper and Zinc: Implications in Toxic Metal Clean Up. <i>Chemistry and Ecology</i> , <b>1999</b> , 16, 297-316	2.3	5
53	In vitro generation of oxidized standards for lipidomics. Application to major membrane lipid components. <i>Journal of Chromatography A</i> , <b>2021</b> , 1651, 462254	4.5	5
52	Oxidized lipids in the metabolic profiling of neuroendocrine tumors - Analytical challenges and biological implications. <i>Journal of Chromatography A</i> , <b>2020</b> , 1625, 461233	4.5	4
51	Insulin receptor substrate 2 (IRS2) deficiency delays liver fibrosis associated with cholestatic injury. <i>DMM Disease Models and Mechanisms</i> , <b>2019</b> , 12,	4.1	4
50	Analytical study proving alprazolam degradation to its main impurity triazolaminoquinoleine through Maillard reaction. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 1349-59	4.4	4
49	A body weight loss- and health-promoting gut microbiota is established after bariatric surgery in individuals with severe obesity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 193, 113747	3.5	4
48	Enhancing confidence of metabolite annotation in Capillary Electrophoresis-Mass Spectrometry untargeted metabolomics with relative migration time and in-source fragmentation. <i>Journal of Chromatography A</i> , <b>2021</b> , 1635, 461758	4.5	4
47	Impact of global PTP1B deficiency on the gut barrier permeability during NASH in mice. <i>Molecular Metabolism</i> , <b>2020</b> , 35, 100954	8.8	3
46	Metabolomics changes in patients with PAPP-A2 deficiency in response to rhIGF1 treatment. <i>Growth Hormone and IGF Research</i> , <b>2018</b> , 42-43, 28-31	2	3
45	Characterization of data analysis methods for information recovery from metabolic 1H NMR spectra using artificial complex mixtures. <i>Metabolomics</i> , <b>2012</b> , 8, 1170-1180	4.7	3
44	An investigation into possible xenobiotic-endobiotic inter-relationships involving the amino acid analogue drug, S-carboxymethyl-L-cysteine and plasma amino acids in humans. <i>Amino Acids</i> , <b>2012</b> , 42, 1967-73	3.5	3
43	A simplified measurement of protein in natural latex. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>1998</b> , 53, 720-2	9.3	3
42	FGF21-protection against fructose-induced lipid accretion and oxidative stress is influenced by maternal nutrition in male progeny. <i>Journal of Functional Foods</i> , <b>2020</b> , 64, 103676	5.1	3
41	Metabolic Changes in Brain Slices over Time: a Multiplatform Metabolomics Approach. <i>Molecular Neurobiology</i> , <b>2021</b> , 58, 3224-3237	6.2	3



40	Metabolomic Reprogramming of C57BL/6-Macrophages during Early Infection with. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
39	Prognostic biomarkers of Parkinson's disease in the Spanish EPIC cohort: a multiplatform metabolomics approach. <i>Npj Parkinson's Disease</i> , <b>2021</b> , 7, 73	9.7	3
38	Analytical approaches for studying oxygenated lipids in the search of potential biomarkers by LC-MS. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 143, 116367	14.6	3
37	Determination of Phenolic Antioxidants by HPLC with Amperometric Detection at a Nickel Phthalocyanine Polymer Modified Electrode <b>1999</b> , 11, 470		3
36	Plasma Metabolic Signature of Atherosclerosis Progression and Colchicine Treatment in Rabbits. <i>Scientific Reports</i> , <b>2020</b> , 10, 7072	4.9	2
35	Metabolomics of Diet-related Diseases <b>2013</b> , 429-451		2
34	Overcoming docetaxel resistance in advanced castration-resistant prostate cancer (CRPC): A phase I/II trial of the combination of temsirolimus and docetaxel.. <i>Journal of Clinical Oncology</i> , <b>2012</b> , 30, 250-250 <sup>2</sup>	2.2	2
33	Understanding uncontrolled severe allergic asthma by integration of omic and clinical data. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> ,	9.3	2
32	Sample pre-treatment procedures for the omics analysis of human gut microbiota: Turning points, tips and tricks for gene sequencing and metabolomics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 191, 113592	3.5	2
31	Unraveling the Cyclization of L-Argininosuccinic Acid in Biological Samples: A Study via Mass Spectrometry and NMR Spectroscopy. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 12891-12899	7.8	2
30	Understanding Systemic and Local Inflammation Induced by Nasal Polyposis: Role of the Allergic Phenotype. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 662792	5.6	2
29	A Preliminary Study Showing the Impact of Genetic and Dietary Factors on GC-MS-Based Plasma Metabolome of Patients with and without -Genetic Predisposition to T2DM up to 5 Years Prior to Prediabetes Appearance. <i>Current Issues in Molecular Biology</i> , <b>2021</b> , 43, 513-528	2.9	2
28	Metabolomics Analysis of Leishmania by Capillary Electrophoresis and Mass Spectrometry. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1859, 253-260	1.4	2
27	Recent developments in data acquisition, treatment and analysis with ion mobility-mass spectrometry for lipidomics. <i>Proteomics</i> , 2100328	4.8	2
26	Answer to: "Biomarkers in allergic asthma: Which matrix should we use?". <i>Clinical and Experimental Allergy</i> , <b>2017</b> , 47, 1099-1100	4.1	1
25	Metabolites secreted by human atherothrombotic aneurysm. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1000, 103-13	1.4	1
24	CE versus HPLC for the dissolution test in a pharmaceutical formulation containing acetaminophen, phenylephrine and chlorpheniramine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2004</b> , 35, 769-769	2.5	1
23	Untargeted Metabolomics Determination of Postmortem Changes in Brain Tissue Samples by UHPLC-ESI-QTOF-MS and GC-EI-Q-MS. <i>Neuromethods</i> , <b>2021</b> , 245-265	0.4	1

22	Gas Chromatography-Mass Spectroscopy-Based Metabolomics Analysis Reveals Potential Biochemical Markers for Diagnosis of Gestational Diabetes Mellitus. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 770240	5.6	1
21	An evolutionarily ancient fatty acid desaturase is required for the synthesis of hexadecatrienoic acid, which is the main source of the bioactive jasmonate in <i>Marchantia polymorpha</i> . <i>New Phytologist</i> , <b>2021</b> , 233, 1401	9.8	1
20	CHAPTER 8:CE-MS for Metabolomics: A Comparison with Other Techniques. <i>New Developments in Mass Spectrometry</i> , <b>2018</b> , 161-183	2.3	1
19	Metabolome Database for Mass Spectrometry Metabolomics. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2021</b> , 7,	5.6	1
18	Mapping Alterations Induced by Long-Term Axenic Cultivation of Promastigotes With a Multiplatform Metabolomic Fingerprint Approach. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 403	5.9	1
17	Metabolic Phenotyping Using Capillary Electrophoresis Mass Spectrometry <b>2019</b> , 171-204		1
16	Integration of Functional Genomic, Transcriptomic, and Metabolomic Data to Identify Key Features in Genomic Expression, Metabolites, and Metabolic Pathways of <i>Babesia divergens</i> . <i>Methods in Molecular Biology</i> , <b>2021</b> , 2369, 217-249	1.4	1
15	Characterization of anaphylaxis reveals different metabolic changes depending on severity and triggers. <i>Clinical and Experimental Allergy</i> , <b>2021</b> , 51, 1295-1309	4.1	1
14	Comparative metabolomics analysis of bronchial epithelium during barrier establishment after allergen exposure. <i>Clinical and Translational Allergy</i> , <b>2021</b> , 11, e12051	5.2	1
13	Low and high resolution gas chromatography-mass spectrometry for untargeted metabolomics: A tutorial. <i>Analytica Chimica Acta</i> , <b>2021</b> , 339043	6.6	1
12	Exploiting the formation of adducts in mobile phases with ammonium fluoride for the enhancement of annotation in liquid chromatography-high resolution mass spectrometry based lipidomics. <i>Journal of Chromatography Open</i> , <b>2021</b> , 1, 100018		1
11	Ceramide Composition in Exosomes for Characterization of Glioblastoma Stem-Like Cell Phenotypes.. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 788100	5.3	0
10	Metabolomics tools for biomarker discovery: applications in chronic kidney disease <b>2022</b> , 153-181		0
9	Metabolomic changes after DAAs therapy are related to the improvement of cirrhosis and inflammation in HIV/HCV-coinfected patients.. <i>Biomedicine and Pharmacotherapy</i> , <b>2022</b> , 147, 112623	7.5	0
8	Metabolomics reveals synergy between Ag and g-CN in Ag/g-CN composite photocatalysts: a unique feature among Ag-doped biocidal materials. <i>Metabolomics</i> , <b>2021</b> , 17, 53	4.7	0
7	Deprogramming metabolism in pancreatic cancer with a bi-functional GPR55 inhibitor and biased $\beta$ adrenergic agonist.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3618	4.9	0
6	Metabolomics and biochemical alterations caused by pleiotrophin in the 6-hydroxydopamine mouse model of Parkinson's disease.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3577	4.9	0
5	Metabolic Fingerprints of Gestational Diabetes Mellitus <b>2018</b> , 101-117		

- 4 Metabolomics Analysis in Assessing Immunosuppressive Drug Toxicity.. *Transplantation*, **2014**, 98, 431 1.8
- 3 GC-MS Nontargeted Metabolomics of Neural Tissue. *Neuromethods*, **2021**, 199-219 0.4
- 2 To Treat or Not to Treat: Metabolomics Reveals Biomarkers for Treatment Indication in Chronic Lymphocytic Leukaemia Patients. *Blood*, **2015**, 126, 5286-5286 2.2
- 1 Metabolomics in cancer cachexia: a pilot study.. *Journal of Clinical Oncology*, **2016**, 34, e21642-e21642 2.2