

Antonia Garcia

List of Publications by Citations

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97
papers

3,589
citations

35
h-index

56
g-index

99
ext. papers

4,221
ext. citations

4
avg, IF

5.44
L-index

#	Paper	IF	Citations
97	Modes of mechanical ventilation and weaning. A national survey of Spanish hospitals. The Spanish Lung Failure Collaborative Group. <i>Chest</i> , 1994 , 106, 1188-93	5.3	291
96	Method validation strategies involved in non-targeted metabolomics. <i>Journal of Chromatography A</i> , 2014 , 1353, 99-105	4.5	201
95	Quality assurance procedures for mass spectrometry untargeted metabolomics. a review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 147, 149-173	3.5	155
94	Gas chromatography-mass spectrometry (GC-MS)-based metabolomics. <i>Methods in Molecular Biology</i> , 2011 , 708, 191-204	1.4	105
93	From sample treatment to biomarker discovery: A tutorial for untargeted metabolomics based on GC-(EI)-Q-MS. <i>Analytica Chimica Acta</i> , 2015 , 900, 21-35	6.6	101
92	Validation of a HPLC quantification of acetaminophen, phenylephrine and chlorpheniramine in pharmaceutical formulations: capsules and sachets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002 , 29, 701-14	3.5	94
91	Metabolic fingerprint of Gestational Diabetes Mellitus. <i>Journal of Proteomics</i> , 2014 , 103, 57-71	3.9	91
90	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> , 2013 , 1318, 163-70	4.5	91
89	High-fat diets induce changes in hippocampal glutamate metabolism and neurotransmission. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012 , 302, E396-402	6	91
88	Analytical protocols based on LC-MS, GC-MS and CE-MS for nontargeted metabolomics of biological tissues. <i>Bioanalysis</i> , 2014 , 6, 1657-77	2.1	89
87	Metabolomic profiling of serum in the progression of Alzheimer's disease by capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2014 , 35, 3321-30	3.6	82
86	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> , 2000 , 881, 395-401	4.5	77
85	Multipatform analytical methodology for metabolic fingerprinting of lung tissue. <i>Analytical Chemistry</i> , 2013 , 85, 10941-8	7.8	76
84	Plasma fingerprinting with GC-MS in acute coronary syndrome. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 1517-24	4.4	74
83	Metabolic fingerprinting with capillary electrophoresis. <i>Journal of Chromatography A</i> , 2008 , 1204, 130-9	4.5	64
82	Capillary electrophoresis mass spectrometry as a tool for untargeted metabolomics. <i>Bioanalysis</i> , 2017 , 9, 99-130	2.1	63
81	Improving metabolite knowledge in stable atherosclerosis patients by association and correlation of GC-MS and ¹ H NMR fingerprints. <i>Journal of Proteome Research</i> , 2009 , 8, 5580-9	5.6	63

80	Capillary electrophoresis for short-chain organic acids and inorganic anions in different samples. <i>Electrophoresis</i> , 2003 , 24, 1951-81	3.6	61
79	Altered metabolic and stemness capacity of adipose tissue-derived stem cells from obese mouse and human. <i>PLoS ONE</i> , 2015 , 10, e0123397	3.7	59
78	Capillary electrophoresis for rapid profiling of organic acidurias. <i>Clinical Chemistry</i> , 1998 , 44, 1905-1911	5.5	59
77	Breast milk metabolome characterization in a single-phase extraction, multiplatform analytical approach. <i>Analytical Chemistry</i> , 2014 , 86, 8245-52	7.8	57
76	Metabolomics studies in brain tissue: A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 130, 141-168	3.5	56
75	D-serine plasma concentration is a potential biomarker of (R,S)-ketamine antidepressant response in subjects with treatment-resistant depression. <i>Psychopharmacology</i> , 2015 , 232, 399-409	4.7	52
74	Method development and validation for rat serum fingerprinting with CE-MS: application to ventilator-induced-lung-injury study. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 4849-58	4.4	51
73	Comparison of phenolic compounds profile and antioxidant properties of different sweet cherry (<i>Prunus avium</i> L.) varieties. <i>Food Chemistry</i> , 2019 , 279, 260-271	8.5	49
72	Metabolomics as a tool for drug discovery and personalised medicine. A review. <i>Current Topics in Medicinal Chemistry</i> , 2014 , 14, 2627-36	3	48
71	Looking into aqueous humor through metabolomics spectacles - exploring its metabolic characteristics in relation to myopia. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 127, 18-25 ^{3.5}	3.5	42
70	Plasma and urine metabolic fingerprinting of type 1 diabetic children. <i>Electrophoresis</i> , 2013 , 34, 2882-90 ^{3.6}	3.6	41
69	Recent Developments along the Analytical Process for Metabolomics Workflows. <i>Analytical Chemistry</i> , 2020 , 92, 203-226	7.8	41
68	Metabolomics and neuroanatomical evaluation of post-mortem changes in the hippocampus. <i>Brain Structure and Function</i> , 2017 , 222, 2831-2853	4	40
67	Optimization and validation of a capillary electrophoresis laser-induced fluorescence method for amino acids determination in human plasma: application to bipolar disorder study. <i>Electrophoresis</i> , 2013 , 34, 1701-9	3.6	40
66	Multiplatform plasma fingerprinting in cancer cachexia: a pilot observational and translational study. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018 , 9, 348-357	10.3	39
65	Insulin resistance in prepubertal obese children correlates with sex-dependent early onset metabolomic alterations. <i>International Journal of Obesity</i> , 2016 , 40, 1494-1502	5.5	39
64	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> , 2000 , 870, 97-103	4.5	37
63	Capillary electrophoresis for short chain organic acids in faeces Reference values in a Mediterranean elderly population. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 46, 356-61	3.5	36

62	Optimization and validation of a CE-LIF method for amino acid determination in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 73, 116-24	3.5	35
61	Urinary analysis of nephrolithiasis markers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 781, 433-55	3.2	35
60	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> , 2003 , 785, 237-43	3.2	32
59	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> , 2017 , 144, 90-98	3.5	31
58	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> , 2013 , 921-922, 35-42	3.2	31
57	Direct measurement of homovanillic, vanillylmandelic and 5-hydroxyindoleacetic acids in urine by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000 , 871, 341-50	4.5	31
56	Metabolomics reveals metabolite changes in acute pulmonary embolism. <i>Journal of Proteome Research</i> , 2014 , 13, 805-16	5.6	29
55	Interlaboratory study to evaluate the robustness of capillary electrophoresis-mass spectrometry for peptide mapping. <i>Journal of Separation Science</i> , 2015 , 38, 3262-3270	3.4	29
54	Optimization and validation of a chiral GC-MS method for the determination of free D-amino acids ratio in human urine: application to a gestational diabetes mellitus study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 107, 480-7	3.5	28
53	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> , 2005 , 817, 159-65	3.2	28
52	HvPap-1 C1A Protease and HvCPI-2 Cystatin Contribute to Barley Grain Filling and Germination. <i>Plant Physiology</i> , 2016 , 170, 2511-24	6.6	27
51	Capillary electrophoresis as a metabolomic tool in antioxidant therapy studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 388-98	3.5	27
50	Rapid analytical procedure for neomycin determination in ointments by CE with direct UV detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 49, 1303-7	3.5	25
49	New perspective of diabetes response to an antioxidant treatment through metabolic fingerprinting of urine by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2008 , 1187, 267-74	4.5	25
48	New insight on obesity and adipose-derived stem cells using comprehensive metabolomics. <i>Biochemical Journal</i> , 2016 , 473, 2187-203	3.8	25
47	Dunaliella salina extract effect on diabetic rats: metabolic fingerprinting and target metabolite analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 49, 786-92	3.5	24
46	Validated HPLC method for quantifying permethrin in pharmaceutical formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001 , 24, 999-1004	3.5	23
45	Metabolomic Fingerprinting in the Comprehensive Study of Liver Changes Associated with Onion Supplementation in Hypercholesterolemic Wistar Rats. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	22

44	Targeted and non-targeted metabolic time trajectory in plasma of patients after acute coronary syndrome. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 343-51	3.5	22
43	Metabolomic approach to the nutraceutical effect of rosemary extract plus Ω 3 PUFAs in diabetic children with capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 1298-304	3.5	20
42	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> , 2002 , 780, 73-82	3.2	20
41	Comprehensive Examination of the Mouse Lung Metabolome Following Infection Using a Multiplatform Mass Spectrometry Approach. <i>Journal of Proteome Research</i> , 2020 , 19, 2053-2070	5.6	19
40	A Metabolomic Approach to the Pathogenesis of Ventilator-induced Lung Injury. <i>Anesthesiology</i> , 2014 , 120, 694-702	4.3	18
39	Metabolomic study of plasma of patients with abdominal aortic aneurysm. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 1651-60	4.4	18
38	Measurement of nephrolithiasis urinary markers by capillary electrophoresis. <i>Biomedical Applications</i> , 2001 , 755, 287-95		18
37	Fructose during pregnancy provokes fetal oxidative stress: The key role of the placental heme oxygenase-1. <i>Molecular Nutrition and Food Research</i> , 2016 , 60, 2700-2711	5.9	17
36	Metabolomic Study of Hibernating Syrian Hamster Brains: In Search of Neuroprotective Agents. <i>Journal of Proteome Research</i> , 2019 , 18, 1175-1190	5.6	17
35	Metabolomics allows the discrimination of the pathophysiological relevance of hyperinsulinism in obese prepubertal children. <i>International Journal of Obesity</i> , 2017 , 41, 1473-1480	5.5	16
34	Oncolytic Virotherapy in Glioma Tumors. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	16
33	Metabolomic-Based Methods in Diagnosis and Monitoring Infection Progression. <i>Experientia Supplementum (2012)</i> , 2018 , 109, 283-315	2.2	15
32	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> , 2015 , 36, 2303-2313	3.6	15
31	CE as orthogonal technique to HPLC for alprazolam degradation product identification. <i>Electrophoresis</i> , 2006 , 27, 2360-6	3.6	15
30	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> , 2015 , 19, 363-375	5.1	14
29	Metabolomic evaluation of Mitomycin C and rapamycin in a personalized treatment of pancreatic cancer. <i>Pharmacology Research and Perspectives</i> , 2014 , 2, e00067	3.1	14
28	Metabolite fingerprinting by capillary electrophoresis-mass spectrometry. <i>Methods in Molecular Biology</i> , 2014 , 1198, 107-23	1.4	13
27	Development of chromatographic methods for the determination of genotoxic impurities in cloperastine fendizoate. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 61, 230-6	3.5	12

26	Multiplatform metabolomic fingerprinting as a tool for understanding hypercholesterolemia in Wistar rats. <i>European Journal of Nutrition</i> , 2016 , 55, 997-1010	5.2	11
25	Capillary electrophoresis for the determination of organic acidurias in body fluids: a review. <i>Clinical Chemistry and Laboratory Medicine</i> , 2003 , 41, 755-61	5.9	11
24	Specific Deletion of the Astrocyte Leptin Receptor Induces Changes in Hippocampus Glutamate Metabolism, Synaptic Transmission and Plasticity. <i>Neuroscience</i> , 2020 , 447, 182-190	3.9	11
23	Repression of drought-induced cysteine-protease genes alters barley leaf structure and responses to abiotic and biotic stresses. <i>Journal of Experimental Botany</i> , 2019 , 70, 2143-2155	7	11
22	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> , 2018 , 153, 44-56	3.5	10
21	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> , 2017 , 139, 238-246	3.5	9
20	Elicitation with Bacillus QV15 reveals a pivotal role of F3H on flavonoid metabolism improving adaptation to biotic stress in blackberry. <i>PLoS ONE</i> , 2020 , 15, e0232626	3.7	9
19	Capillary Electrophoresis Mass Spectrometry as a Tool for Untargeted Metabolomics. <i>Methods in Molecular Biology</i> , 2019 , 1978, 55-77	1.4	8
18	Oncolytic bacteria: past, present and future. <i>FEMS Microbiology Letters</i> , 2019 , 366,	2.9	7
17	Ayahuasca Beverages: Phytochemical Analysis and Biological Properties. <i>Antibiotics</i> , 2020 , 9,	4.9	7
16	A novel strategy for rapid screening of the complex triterpene saponin mixture present in the methanolic extract of blackberry leaves (Rubus cv. Loch Ness) by UHPLC/QTOF-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 164, 47-56	3.5	7
15	Optimization and validation of a chiral CE-LIF method for quantitation of aspartate, glutamate and serine in murine osteocytic and osteoblastic cells. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1152, 122259	3.2	5
14	Evaluation of the Cytotoxicity of Ayahuasca Beverages. <i>Molecules</i> , 2020 , 25,	4.8	4
13	Development and validation of a high performance liquid chromatography-tandem mass spectrometry method for the absolute analysis of 17 ID-amino acids in cooked meals. <i>Journal of Chromatography A</i> , 2020 , 1611, 460598	4.5	4
12	FGF21-protection against fructose-induced lipid accretion and oxidative stress is influenced by maternal nutrition in male progeny. <i>Journal of Functional Foods</i> , 2020 , 64, 103676	5.1	3
11	Metabolomics of Diet-related Diseases 2013 , 429-451		2
10	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> , 2012 , 30, 250-250 ²	2.2	2
9	Untargeted Metabolomics Determination of Postmortem Changes in Brain Tissue Samples by UHPLC-ESI-QTOF-MS and GC-EI-Q-MS. <i>Neuromethods</i> , 2021 , 245-265	0.4	1

8	CHAPTER 8:CE-MS for Metabolomics: A Comparison with Other Techniques. <i>New Developments in Mass Spectrometry</i> , 2018 , 161-183	2.3	1
7	Metabolic Phenotyping Using Capillary Electrophoresis Mass Spectrometry 2019 , 171-204		1
6	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> , 2021 , 2369, 217-249	1.4	1
5	Low and high resolution gas chromatography-mass spectrometry for untargeted metabolomics: A tutorial. <i>Analytica Chimica Acta</i> , 2021 , 339043	6.6	1
4	Characterisation of the Phenolic Profile of <i>Acacia retinodes</i> and <i>Acacia mearnsii</i> Flowers Extracts. <i>Plants</i> , 2022 , 11, 1442	4.5	1
3	Untargeted Metabolomics Methods to Analyze Blood-Derived Samples. <i>Neuromethods</i> , 2021 , 173-187	0.4	
2	GC-MS Nontargeted Metabolomics of Neural Tissue. <i>Neuromethods</i> , 2021 , 199-219	0.4	
1	Metabolomics in cancer cachexia: a pilot study.. <i>Journal of Clinical Oncology</i> , 2016 , 34, e21642-e21642	2.2	