

Antonia Garcia

List of Publications by Year in descending order

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97
papers

4,756
citations

81743

39
h-index

106150

65
g-index

99
all docs

99
docs citations

99
times ranked

6850
citing authors

#	ARTICLE	IF	CITATIONS
1	Modes of Mechanical Ventilation and Weaning. <i>Chest</i> , 1994, 106, 1188-1193.	0.4	386
2	Method validation strategies involved in non-targeted metabolomics. <i>Journal of Chromatography A</i> , 2014, 1353, 99-105.	1.8	267
3	Quality assurance procedures for mass spectrometry untargeted metabolomics. a review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 147, 149-173.	1.4	244
4	Gas Chromatography-Mass Spectrometry (GC-MS)-Based Metabolomics. <i>Methods in Molecular Biology</i> , 2011, 708, 191-204.	0.4	153
5	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.	2.6	129
6	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, 701-714.	1.4	118
7	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, 163-170.	1.8	117
8	Metabolic fingerprint of Gestational Diabetes Mellitus. <i>Journal of Proteomics</i> , 2014, 103, 57-71.	1.2	114
9	High-fat diets induce changes in hippocampal glutamate metabolism and neurotransmission. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E396-E402.	1.8	113
10	Analytical protocols based on LC-MS, GC-MS and CE-MS for nontargeted metabolomics of biological tissues. <i>Bioanalysis</i> , 2014, 6, 1657-1677.	0.6	112
11	Metabolomic profiling of serum in the progression of Alzheimer's disease by capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2014, 35, 3321-3330.	1.3	105
12	Multiplatform Analytical Methodology for Metabolic Fingerprinting of Lung Tissue. <i>Analytical Chemistry</i> , 2013, 85, 10941-10948.	3.2	98
13	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.	4.2	98
14	Plasma fingerprinting with GC-MS in acute coronary syndrome. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1517-1524.	1.9	88
15	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.	1.8	85
16	Altered Metabolic and Stemness Capacity of Adipose Tissue-Derived Stem Cells from Obese Mouse and Human. <i>PLoS ONE</i> , 2015, 10, e0123397.	1.1	82
17	Metabolomics studies in brain tissue: A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 130, 141-168.	1.4	79
18	Capillary electrophoresis mass spectrometry as a tool for untargeted metabolomics. <i>Bioanalysis</i> , 2017, 9, 99-130.	0.6	72

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19	Recent Developments along the Analytical Process for Metabolomics Workflows. Analytical Chemistry, 2020, 92, 203-226.	3.2	72
20	Metabolic fingerprinting with capillary electrophoresis. Journal of Chromatography A, 2008, 1204, 130-139.	1.8	71
21	Improving Metabolite Knowledge in Stable Atherosclerosis Patients by Association and Correlation of GC-MS and ¹ H NMR Fingerprints. Journal of Proteome Research, 2009, 8, 5580-5589.	1.8	70
22	Breast Milk Metabolome Characterization in a Single-Phase Extraction, Multiplatform Analytical Approach. Analytical Chemistry, 2014, 86, 8245-8252.	3.2	69
23	Capillary electrophoresis for short-chain organic acids and inorganic anions in different samples. Electrophoresis, 2003, 24, 1951-1981.	1.3	68
24	Capillary electrophoresis for rapid profiling of organic acidurias. Clinical Chemistry, 1998, 44, 1905-1911.	1.5	66
25	Metabolomics as a Tool for Drug Discovery and Personalised Medicine. A Review. Current Topics in Medicinal Chemistry, 2015, 14, 2627-2636.	1.0	64
26	D-serine plasma concentration is a potential biomarker of (R,S)-ketamine antidepressant response in subjects with treatment-resistant depression. Psychopharmacology, 2015, 232, 399-409.	1.5	62
27	Method development and validation for rat serum fingerprinting with CE-MS: application to ventilator-induced-lung-injury study. Analytical and Bioanalytical Chemistry, 2013, 405, 4849-4858.	1.9	61
28	Multiplatform plasma fingerprinting in cancer cachexia: a pilot observational and translational study. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 348-357.	2.9	61
29	Looking into aqueous humor through metabolomics spectacles - exploring its metabolic characteristics in relation to myopia. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 18-25.	1.4	60
30	Metabolomics and neuroanatomical evaluation of post-mortem changes in the hippocampus. Brain Structure and Function, 2017, 222, 2831-2853.	1.2	55
31	Plasma and urine metabolic fingerprinting of type 1 diabetic children. Electrophoresis, 2013, 34, 2882-2890.	1.3	52
32	Insulin resistance in prepubertal obese children correlates with sex-dependent early onset metabolomic alterations. International Journal of Obesity, 2016, 40, 1494-1502.	1.6	51
33	Capillary electrophoresis for short chain organic acids in faeces. Journal of Pharmaceutical and Biomedical Analysis, 2008, 46, 356-361.	1.4	50
34	GC-MS based Gestational Diabetes Mellitus longitudinal study: Identification of 2-and 3-hydroxybutyrate as potential prognostic biomarkers. Journal of Pharmaceutical and Biomedical Analysis, 2017, 144, 90-98.	1.4	48
35	Optimization and validation of a capillary electrophoresis laser-induced fluorescence method for amino acids determination in human plasma: Application to bipolar disorder study. Electrophoresis, 2013, 34, 1701-1709.	1.3	46
36	Urinary analysis of nephrolithiasis markers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 781, 433-455.	1.2	45

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37	Metabolomics Reveals Metabolite Changes in Acute Pulmonary Embolism. <i>Journal of Proteome Research</i> , 2014, 13, 805-816.	1.8	45
38	Optimization and validation of a method for the determination of caffeine, 8-chlorotheophylline and diphenhydramine by isocratic high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2000, 870, 97-103.	1.8	43
39	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, 480-487.	1.4	43
40	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, 116-124.	1.4	40
41	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, 237-243.	1.2	38
42	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, 159-165.	1.2	36
43	Interlaboratory study to evaluate the robustness of capillary electrophoresis-mass spectrometry for peptide mapping. <i>Journal of Separation Science</i> , 2015, 38, 3262-3270.	1.3	36
44	Direct measurement of homovanillic, vanillylmandelic and 5-hydroxyindoleacetic acids in urine by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 871, 341-350.	1.8	35
45	New insight on obesity and adipose-derived stem cells using comprehensive metabolomics. <i>Biochemical Journal</i> , 2016, 473, 2187-2203.	1.7	35
46	Oncolytic Virotherapy in Glioma Tumors. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7604.	1.8	35
47	Comprehensive Examination of the Mouse Lung Metabolome Following <i>Mycobacterium tuberculosis</i> Infection Using a Multiplatform Mass Spectrometry Approach. <i>Journal of Proteome Research</i> , 2020, 19, 2053-2070.	1.8	35
48	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.	1.2	34
49	HvPap-1 C1A Protease and HVCPI-2 Cystatin Contribute to Barley Grain Filling and Germination. <i>Plant Physiology</i> , 2016, 170, 2511-2524.	2.3	33
50	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, 267.	1.8	32
51	Capillary electrophoresis as a metabolomic tool in antioxidant therapy studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 47, 388-398.	1.4	29
52	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, 267-274.	1.8	29
53	Rapid analytical procedure for neomycin determination in ointments by CE with direct UV detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 1303-1307.	1.4	29
54	Validated HPLC method for quantifying permethrin in pharmaceutical formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001, 24, 999-1004.	1.4	26

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55	Dunaliella salina extract effect on diabetic rats: Metabolic fingerprinting and target metabolite analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 786-792.	1.4	26
56	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.	2.4	26
57	Metabolomics allows the discrimination of the pathophysiological relevance of hyperinsulinism in obese prepubertal children. <i>International Journal of Obesity</i> , 2017, 41, 1473-1480.	1.6	25
58	Metabolomic-Based Methods in Diagnosis and Monitoring Infection Progression. <i>Experientia Supplementum</i> (2012), 2018, 109, 283-315.	0.5	25
59	Metabolomic Study of Hibernating Syrian Hamster Brains: In Search of Neuroprotective Agents. <i>Journal of Proteome Research</i> , 2019, 18, 1175-1190.	1.8	25
60	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.	1.2	24
61	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, 343-351.	1.4	24
62	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.	1.5	23
63	Metabolomic study of plasma of patients with abdominal aortic aneurysm. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1651-1660.	1.9	22
64	Metabolomic approach to the nutraceutical effect of rosemary extract plus γ -3 PUFAs in diabetic children with capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 1298-1304.	1.4	21
65	A Metabolomic Approach to the Pathogenesis of Ventilator-induced Lung Injury. <i>Anesthesiology</i> , 2014, 120, 694-702.	1.3	21
66	Specific Deletion of the Astrocyte Leptin Receptor Induces Changes in Hippocampus Glutamate Metabolism, Synaptic Transmission and Plasticity. <i>Neuroscience</i> , 2020, 447, 182-190.	1.1	20
67	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.	1.3	19
68	Measurement of nephrolithiasis urinary markers by capillary electrophoresis. <i>Biomedical Applications</i> , 2001, 755, 287-295.	1.7	18
69	Elicitation with <i>Bacillus QV15</i> reveals a pivotal role of F3H on flavonoid metabolism improving adaptation to biotic stress in blackberry. <i>PLoS ONE</i> , 2020, 15, e0232626.	1.1	18
70	Ayahuasca Beverages: Phytochemical Analysis and Biological Properties. <i>Antibiotics</i> , 2020, 9, 731.	1.5	17
71	Development of chromatographic methods for the determination of genotoxic impurities in cloperastine fendizoate. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 61, 230-236.	1.4	16
72	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.	1.6	16

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73	Capillary Electrophoresis for the Determination of Organic Acidurias in Body Fluids: A Review. <i>Clinical Chemistry and Laboratory Medicine</i> , 2003, 41, 755-61.	1.4	15
74	CE as orthogonal technique to HPLC for alprazolam degradation product identification. <i>Electrophoresis</i> , 2006, 27, 2360-2366.	1.3	15
75	Oncolytic bacteria: past, present and future. <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	15
76	Metabolomic evaluation of Mitomycin C and rapamycin in a personalized treatment of pancreatic cancer. <i>Pharmacology Research and Perspectives</i> , 2014, 2, e00067.	1.1	14
77	Multiplatform metabolomic fingerprinting as a tool for understanding hypercholesterolemia in Wistar rats. <i>European Journal of Nutrition</i> , 2016, 55, 997-1010.	1.8	14
78	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.	1.4	14
79	Low and high resolution gas chromatography-mass spectrometry for untargeted metabolomics: A tutorial. <i>Analytica Chimica Acta</i> , 2022, 1210, 339043.	2.6	14
80	Metabolite Fingerprinting by Capillary Electrophoresis-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2014, 1198, 107-123.	0.4	14
81	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.	1.4	13
82	Capillary Electrophoresis Mass Spectrometry as a Tool for Untargeted Metabolomics. <i>Methods in Molecular Biology</i> , 2019, 1978, 55-77.	0.4	12
83	Evaluation of the Cytotoxicity of Ayahuasca Beverages. <i>Molecules</i> , 2020, 25, 5594.	1.7	12
84	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.	1.2	9
85	Development and validation of a high performance liquid chromatography-tandem mass spectrometry method for the absolute analysis of 17 \pm D-amino acids in cooked meals. <i>Journal of Chromatography A</i> , 2020, 1611, 460598.	1.8	8
86	A novel strategy for rapid screening of the complex triterpene saponin mixture present in the methanolic extract of blackberry leaves (<i>Rubus</i> cv. Loch Ness) by UHPLC/QTOF-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 164, 47-56.	1.4	7
87	Characterisation of the Phenolic Profile of <i>Acacia retinodes</i> and <i>Acacia mearnsii</i> Flowers™ Extracts. <i>Plants</i> , 2022, 11, 1442.	1.6	5
88	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.	1.6	4
89	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.	0.4	3
90	Metabolic Phenotyping Using Capillary Electrophoresis Mass Spectrometry. , 2019, , 171-204.		2

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91	Overcoming docetaxel resistance in advanced castration-resistant prostate cancer (CRPC): A phase I/II trial of the combination of temsirolimus and docetaxel.. Journal of Clinical Oncology, 2012, 30, 250-250.	0.8	2
92	Untargeted Metabolomics Determination of Postmortem Changes in Brain Tissue Samples by UHPLC-ESI-QTOF-MS and GC-EI-Q-MS. Neuromethods, 2021, , 245-265.	0.2	2
93	CE-MS for Metabolomics: A Comparison with Other Techniques. New Developments in Mass Spectrometry, 2018, , 161-183.	0.2	1
94	Unveiling Metabolic Phenotype Alterations in Anorexia Nervosa through Metabolomics. Nutrients, 2021, 13, 4249.	1.7	1
95	Metabolomics in cancer cachexia: a pilot study.. Journal of Clinical Oncology, 2016, 34, e21642-e21642.	0.8	0
96	Untargeted Metabolomics Methods to Analyze Blood-Derived Samples. Neuromethods, 2021, , 173-187.	0.2	0
97	GC-MS Nontargeted Metabolomics of Neural Tissue. Neuromethods, 2021, , 199-219.	0.2	0