Carmen Bedia

List of Publications by Year
in descending order

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51 papers	1,452 citations	257450 24 h-index	330143 37 g-index
53 all docs	53 docs citations	53 times ranked	2563 citing authors

#	Article	IF	Citations
1	Lipidomic analysis of single and combined effects of polyethylene microplastics and polychlorinated biphenyls on human hepatoma cells. Journal of Hazardous Materials, 2022, 421, 126777.	12.4	36
2	Metabolomics in environmental toxicology: Applications and challenges. Trends in Environmental Analytical Chemistry, 2022, 34, e00161.	10.3	24
3	Introduction to Data Analysis in Omics Sciences. , 2021, , 226-240.		0
4	Untargeted metabolomics of prostate cancer zwitterionic and positively charged compounds in urine. Analytica Chimica Acta, 2021, 1158, 338381.	5.4	24
5	Source Apportionment and Toxicity of PM in Urban, Sub-Urban, and Rural Air Quality Network Stations in Catalonia. Atmosphere, 2021, 12, 744.	2.3	10
6	Multimodal multisample spectroscopic imaging analysis of tumor tissues using multivariate curve resolution. Chemometrics and Intelligent Laboratory Systems, 2021, 215, 104366.	3.5	4
7	MSroi: A pre-processing tool for mass spectrometry-based studies. Chemometrics and Intelligent Laboratory Systems, 2021, 215, 104333.	3.5	19
8	An underground strategy to increase mercury tolerance in the salt marsh halophyte Juncus maritimus Lam.: Lipid remodelling and Hg restriction. Environmental and Experimental Botany, 2021, 191, 104619.	4.2	2
9	Application of chemometric methods to the analysis of multimodal chemical images of biological tissues. Analytical and Bioanalytical Chemistry, 2020, 412, 5179-5190.	3.7	13
10	Mass Spectrometry Imaging: Chemometric Data Analysis. , 2020, , 381-394.		0
11	Stoichiometric gene-to-reaction associations enhance model-driven analysis performance: Metabolic response to chronic exposure to Aldrin in prostate cancer. BMC Genomics, 2019, 20, 652.	2.8	12
12	GM2-GM3 gangliosides ratio is dependent on GRP94 through down-regulation of GM2-AP cofactor in brain metastasis cells. Scientific Reports, 2019, 9, 14241.	3.3	6
13	Exposure to chlorpyrifos induces morphometric, biochemical and lipidomic alterations in green beans (Phaseolus vulgaris). Ecotoxicology and Environmental Safety, 2018, 156, 25-33.	6.0	25
14	Handling Different Spatial Resolutions in Image Fusion by Multivariate Curve Resolution-Alternating Least Squares for Incomplete Image Multisets. Analytical Chemistry, 2018, 90, 6757-6765.	6.5	31
15	Validation of the Regions of Interest Multivariate Curve Resolution (ROIMCR) procedure for untargeted LC-MS lipidomic analysis. Analytica Chimica Acta, 2018, 1025, 80-91.	5.4	25
16	Chemometric Strategies for Peak Detection and Profiling from Multidimensional Chromatography. Proteomics, 2018, 18, e1700327.	2.2	16
17	Deciphering the Underlying Metabolomic and Lipidomic Patterns Linked to Thermal Acclimation in Saccharomyces cerevisiae. Journal of Proteome Research, 2018, 17, 2034-2044.	3.7	14
18	Application of a sparseness constraint in multivariate curve resolutionÂâ€“ Alternating least squares. Analytica Chimica Acta, 2018, 1000, 100-108.	5.4	32

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19	Preprocessing Tools Applied to Improve the Assessment of Aldrin Effects on Prostate Cancer Cells Using Raman Spectroscopy. Applied Spectroscopy, 2018, 72, 489-500.	2.2	8
20	Experimental Approaches in Omic Sciences. Comprehensive Analytical Chemistry, 2018, 82, 13-36.	1.3	2
21	Applications of Metabolomics Analysis in Environmental Research. Comprehensive Analytical Chemistry, 2018, 82, 533-582.	1.3	15
22	Introduction to the Data Analysis Relevance in the Omic Era. Comprehensive Analytical Chemistry, 2018, , 1-12.	1.3	1
23	Untargeted lipidomic analysis of primary human epidermal melanocytes acutely and chronically exposed to UV radiation. Molecular Omics, 2018, 14, 170-180.	2.8	11
24	Phenotypic and lipidomic characterization of primary human epidermal keratinocytes exposed to simulated solar UV radiation. Journal of Dermatological Science, 2018, 92, 97-105.	1.9	31
25	Analysis of multiple mass spectrometry images from different Phaseolus vulgaris samples by multivariate curve resolution. Talanta, 2017, 175, 557-565.	5.5	18
26	3-Ketosphinganine provokes the accumulation of dihydroshingolipids and induces autophagy in cancer cells. Molecular BioSystems, 2016, 12, 1166-1173.	2.9	12
27	Compression strategies for the chemometric analysis of mass spectrometry imaging data. Journal of Chemometrics, 2016, 30, 575-588.	1.3	27
28	Assessment of the effects of As(III) treatment on cyanobacteria lipidomic profiles by LC-MS and MCR-ALS. Analytical and Bioanalytical Chemistry, 2016, 408, 5829-5841.	3.7	12
29	Legionella pneumophila S1P-lyase targets host sphingolipid metabolism and restrains autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1901-1906.	7.1	115
30	Lipidomic data analysis: Tutorial, practical guidelines and applications. Analytica Chimica Acta, 2015, 885, 1-16.	5.4	95
31	Phenotypic malignant changes and untargeted lipidomic analysis of long-term exposed prostate cancer cells to endocrine disruptors. Environmental Research, 2015, 140, 18-31.	7.5	36
32	Activity of neutral and alkaline ceramidases on fluorogenic N-acylated coumarin-containing aminodiols. Journal of Lipid Research, 2015, 56, 2019-2028.	4.2	13
33	Epithelial-to-mesenchymal transition involves triacylglycerol accumulation in DU145 prostate cancer cells. Molecular BioSystems, 2015, 11, 3397-3406.	2.9	42
34	A non-target chemometric strategy applied to UPLC-MS sphingolipid analysis of a cell line exposed to chlorpyrifos pesticide: A feasibility study. Microchemical Journal, 2014, 117, 255-261.	4.5	15
35	Genetic Disorders of Simple Sphingolipid Metabolism. Handbook of Experimental Pharmacology, 2013, , 127-152.	1.8	3
36	The nonlysosomal Î²â€glucosidase GBA2 promotes endoplasmic reticulum stress and impairs tumorigenicity of human melanoma cells. FASEB Journal, 2013, 27, 489-498.	0.5	39

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37	Ceramideâ€“Antiestrogen Nanoliposomal Combinationsâ€”Novel Impact of Hormonal Therapy in Hormone-Insensitive Breast Cancer. Molecular Cancer Therapeutics, 2012, 11, 2352-2361.	4.1	45
38	Sphingolipid Modulation: A Strategy for Cancer Therapy. Anti-Cancer Agents in Medicinal Chemistry, 2012, 12, 285-302.	1.7	22
39	Acid Ceramidase Expression Modulates the Sensitivity of A375 Melanoma Cells to Dacarbazine. Journal of Biological Chemistry, 2011, 286, 28200-28209.	3.4	71
40	Regulation of Autophagy by Sphingolipids. Anti-Cancer Agents in Medicinal Chemistry, 2011, 11, 844-853.	1.7	48
41	Ceramidases in Hematological Malignancies: Senseless or Neglected Target?. Anti-Cancer Agents in Medicinal Chemistry, 2011, 11, 830-843.	1.7	12
42	A simple fluorogenic method for determination of acid ceramidase activity and diagnosis of Farber disease. Journal of Lipid Research, 2010, 51, 3542-3547.	4.2	53
43	Disruption of Sphingosine 1-Phosphate Lyase Confers Resistance to Chemotherapy and Promotes Oncogenesis through Bcl-2/Bcl-xL Upregulation. Cancer Research, 2009, 69, 9346-9353.	0.9	103
44	Synthesis of a Fluorogenic Analogue of Sphingosineâ€1â€Phosphate and Its Use to Determine Sphingosineâ€1â€Phosphate Lyase Activity. ChemBioChem, 2009, 10, 820-822.	2.6	30
45	Aminocyclitolâ€Substituted Phytoceramides and their Effects on iNKT Cell Stimulation. ChemMedChem, 2009, 4, 1608-1613.	3.2	21
46	Synthesis and Biological Activity of a Novel Inhibitor of Dihydroceramide Desaturase. ChemMedChem, 2008, 3, 946-953.	3.2	68
47	Cytotoxicity and acid ceramidase inhibitory activity of 2-substituted aminoethanol amides. Chemistry and Physics of Lipids, 2008, 156, 33-40.	3.2	35
48	In vivo delivery of human acid ceramidase via cord blood transplantation and direct injection of lentivirus as novel treatment approaches for Farber disease. Molecular Genetics and Metabolism, 2008, 95, 133-141.	1.1	32
49	Synthesis of a Novel Ceramide Analogue and its Use in a High-Throughput Fluorogenic Assay for Ceramidases. ChemBioChem, 2007, 8, 642-648.	2.6	53
50	Design, synthesis and activity as acid ceramidase inhibitors of 2-oxooctanoyl and N-oleoylethanolamine analogues. Chemistry and Physics of Lipids, 2006, 144, 69-84.	3.2	39
51	Analogs of the dihydroceramide desaturase inhibitor GT11 modified at the amide function: synthesis and biological activities. Organic and Biomolecular Chemistry, 2005, 3, 3707.	2.8	30