

Salvador Fernández-Arroyo

List of Publications by Year in descending order

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74
papers

3,034
citations

136740

32
h-index

168136

53
g-index

75
all docs

75
docs citations

75
times ranked

5683
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of phenolic compounds, anthocyanidin, antioxidant and antimicrobial activity of 25 varieties of Mexican Roselle (<i>Hibiscus sabdariffa</i>). <i>Industrial Crops and Products</i> , 2015, 69, 385-394.	2.5	165
2	Xenohormetic and anti-aging activity of secoiridoid polyphenols present in extra virgin olive oil. <i>Cell Cycle</i> , 2013, 12, 555-578.	1.3	131
3	Synergism of plant-derived polyphenols in adipogenesis: Perspectives and implications. <i>Phytomedicine</i> , 2012, 19, 253-261.	2.3	122
4	Cistaceae aqueous extracts containing ellagitannins show antioxidant and antimicrobial capacity, and cytotoxic activity against human cancer cells. <i>Food and Chemical Toxicology</i> , 2010, 48, 2273-2282.	1.8	120
5	Correlation between plasma antioxidant capacity and verbascoside levels in rats after oral administration of lemon verbena extract. <i>Food Chemistry</i> , 2009, 117, 589-598.	4.2	118
6	HPLC-ESI-Q-TOF-MS for a comprehensive characterization of bioactive phenolic compounds in cucumber whole fruit extract. <i>Food Research International</i> , 2012, 46, 108-117.	2.9	109
7	A systematic study of the polyphenolic composition of aqueous extracts deriving from several <i>Cistus</i> genus species: evolutionary relationship. <i>Phytochemical Analysis</i> , 2011, 22, 303-312.	1.2	96
8	Quantification of the polyphenolic fraction and in vitro antioxidant and in vivo anti-hyperlipemic activities of <i>Hibiscus sabdariffa</i> aqueous extract. <i>Food Research International</i> , 2011, 44, 1490-1495.	2.9	95
9	Comprehensive characterization by UHPLC-ESI-Q-TOF-MS from an <i>Eryngium bourgatii</i> extract and their antioxidant and anti-inflammatory activities. <i>Food Research International</i> , 2013, 50, 197-204.	2.9	93
10	Polyphenols and the Modulation of Gene Expression Pathways: Can We Eat Our Way Out of the Danger of Chronic Disease?. <i>Critical Reviews in Food Science and Nutrition</i> , 2014, 54, 985-1001.	5.4	91
11	Reshaping of Human Macrophage Polarization through Modulation of Glucose Catabolic Pathways. <i>Journal of Immunology</i> , 2015, 195, 2442-2451.	0.4	87
12	Cocoa and Grape Seed Byproducts as a Source of Antioxidant and Anti-Inflammatory Proanthocyanidins. <i>International Journal of Molecular Sciences</i> , 2017, 18, 376.	1.8	85
13	Metformin regulates global DNA methylation via mitochondrial one-carbon metabolism. <i>Oncogene</i> , 2018, 37, 963-970.	2.6	85
14	Metformin Is a Direct SIRT1-Activating Compound: Computational Modeling and Experimental Validation. <i>Frontiers in Endocrinology</i> , 2018, 9, 657.	1.5	85
15	Mapping of the circulating metabolome reveals β -ketoglutarate as a predictor of morbid obesity-associated non-alcoholic fatty liver disease. <i>International Journal of Obesity</i> , 2015, 39, 279-287.	1.6	77
16	Isolation, comprehensive characterization and antioxidant activities of <i>Theobroma cacao</i> extract. <i>Journal of Functional Foods</i> , 2014, 10, 485-498.	1.6	71
17	Mitophagy-driven mitochondrial rejuvenation regulates stem cell fate. <i>Aging</i> , 2016, 8, 1330-1352.	1.4	70
18	Bioavailability study of a polyphenol-enriched extract from <i>Hibiscus sabdariffa</i> in rats and associated antioxidant status. <i>Molecular Nutrition and Food Research</i> , 2012, 56, 1590-1595.	1.5	58

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19	Pine Bark and Green Tea Concentrated Extracts: Antioxidant Activity and Comprehensive Characterization of Bioactive Compounds by HPLC-ESI-QTOF-MS. <i>International Journal of Molecular Sciences</i> , 2014, 15, 20382-20402.	1.8	58
20	Metformin directly targets the H3K27me3 demethylase KDM6A/UTX. <i>Aging Cell</i> , 2018, 17, e12772.	3.0	58
21	Acquired resistance to metformin in breast cancer cells triggers transcriptome reprogramming toward a degradome-related metastatic stem-like profile. <i>Cell Cycle</i> , 2014, 13, 1132-1144.	1.3	57
22	A phase 2 trial of neoadjuvant metformin in combination with trastuzumab and chemotherapy in women with early HER2-positive breast cancer: the METTEN study. <i>Oncotarget</i> , 2018, 9, 35687-35704.	0.8	55
23	Extra-virgin olive oil contains a metabolo-epigenetic inhibitor of cancer stem cells. <i>Carcinogenesis</i> , 2018, 39, 601-613.	1.3	53
24	Oncometabolic mutation IDH1 R132H confers a metformin-hypersensitive phenotype. <i>Oncotarget</i> , 2015, 6, 12279-12296.	0.8	53
25	<i>Hibiscus sabdariffa</i> extract lowers blood pressure and improves endothelial function. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1374-1378.	1.5	52
26	High-performance liquid chromatography with diode array detection coupled to electrospray time-of-flight and ion-trap tandem mass spectrometry to identify phenolic compounds from a <i>Cistus ladanifer</i> aqueous extract. <i>Phytochemical Analysis</i> , 2010, 21, 307-313.	1.2	51
27	Application of nanoLC-ESI-TOF-MS for the metabolomic analysis of phenolic compounds from extra-virgin olive oil in treated colon-cancer cells. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 63, 128-134.	1.4	50
28	Laparoscopic sleeve gastrectomy reverses non-alcoholic fatty liver disease modulating oxidative stress and inflammation. <i>Metabolism: Clinical and Experimental</i> , 2019, 99, 81-89.	1.5	43
29	Phenolic Secoiridoids in Extra Virgin Olive Oil Impede Fibrogenic and Oncogenic Epithelial-to-Mesenchymal Transition: Extra Virgin Olive Oil As a Source of Novel Antiaging Phytochemicals. <i>Rejuvenation Research</i> , 2012, 15, 3-21.	0.9	36
30	Methotrexate selectively targets human proinflammatory macrophages through a thymidylate synthase/p53 axis. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 2157-2165.	0.5	35
31	Exploring the Process of Energy Generation in Pathophysiology by Targeted Metabolomics: Performance of a Simple and Quantitative Method. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 168-177.	1.2	35
32	Progress in the Synthesis of Poly(2,7-Fluorene-1,4-Phenylene), PFP, via Suzuki Coupling. <i>Macromolecules</i> , 2009, 42, 5471-5477.	2.2	34
33	Oncometabolic Nuclear Reprogramming of Cancer Stemness. <i>Stem Cell Reports</i> , 2016, 6, 273-283.	2.3	34
34	Nutrients in Energy and One-Carbon Metabolism: Learning from Metformin Users. <i>Nutrients</i> , 2017, 9, 121.	1.7	33
35	Paraoxonases and Chemokine (C Motif) Ligand-2 in Noncommunicable Diseases. <i>Advances in Clinical Chemistry</i> , 2014, 63, 247-308.	1.8	32
36	Activation of the methylation cycle in cells reprogrammed into a stem cell-like state. <i>Oncoscience</i> , 2016, 2, 958-967.	0.9	30

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37	Crude phenolic extracts from extra virgin olive oil circumvent de novo breast cancer resistance to HER1/HER2-targeting drugs by inducing GADD45-sensed cellular stress, G2/M arrest and hyperacetylation of Histone H3. <i>International Journal of Oncology</i> , 2011, 38, 1533-47.	1.4	28
38	Epigenetics and nutrition-related epidemics of metabolic diseases: Current perspectives and challenges. <i>Food and Chemical Toxicology</i> , 2016, 96, 191-204.	1.8	27
39	Germline <i>BRCA1</i> mutation reprograms breast epithelial cell metabolism towards mitochondrial-dependent biosynthesis: evidence for metformin-based "starvation" strategies in <i>BRCA1</i> carriers. <i>Oncotarget</i> , 2016, 7, 52974-52992.	0.8	26
40	The acute impact of polyphenols from <i>Hibiscus sabdariffa</i> in metabolic homeostasis: an approach combining metabolomics and gene-expression analyses. <i>Food and Function</i> , 2015, 6, 2957-2966.	2.1	25
41	Metformin induces a fasting- and antifolate-mimicking modification of systemic host metabolism in breast cancer patients. <i>Aging</i> , 2019, 11, 2874-2888.	1.4	25
42	Effect of Vitamin D3 on the Postprandial Lipid Profile in Obese Patients: A Non-Targeted Lipidomics Study. <i>Nutrients</i> , 2019, 11, 1194.	1.7	21
43	Bioassay-guided purification of <i>Lippia citriodora</i> polyphenols with AMPK modulatory activity. <i>Journal of Functional Foods</i> , 2018, 46, 514-520.	1.6	20
44	Plasma metabolic alterations in patients with severe obesity and non-alcoholic steatohepatitis. <i>Alimentary Pharmacology and Therapeutics</i> , 2020, 51, 374-387.	1.9	20
45	Effect of radiotherapy on activity and concentration of serum paraoxonase-1 in breast cancer patients. <i>PLoS ONE</i> , 2017, 12, e0188633.	1.1	19
46	Managing Hypertension by Polyphenols. <i>Planta Medica</i> , 2015, 81, 624-629.	0.7	18
47	Metformin Potentiates the Benefits of Dietary Restraint: A Metabolomic Study. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2263.	1.8	18
48	Metformin targets histone acetylation in cancer-prone epithelial cells. <i>Cell Cycle</i> , 2016, 15, 3355-3361.	1.3	17
49	Hepatic metabolic adaptation and adipose tissue expansion are altered in mice with steatohepatitis induced by high-fat high sucrose diet. <i>Journal of Nutritional Biochemistry</i> , 2021, 89, 108559.	1.9	15
50	Metabolite normalization with local radiotherapy following breast tumor resection. <i>PLoS ONE</i> , 2018, 13, e0207474.	1.1	14
51	An olive oil phenolic is a new chemotype of mutant isocitrate dehydrogenase 1 (IDH1) inhibitors. <i>Carcinogenesis</i> , 2019, 40, 27-40.	1.3	14
52	Bioactive Compounds from <i>Theobroma cacao</i> : Effect of Isolation and Safety Evaluation. <i>Plant Foods for Human Nutrition</i> , 2019, 74, 40-46.	1.4	14
53	Chemokine (C-C motif) ligand 2 gene ablation protects low-density lipoprotein and paraoxonase-1 double deficient mice from liver injury, oxidative stress and inflammation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 1555-1566.	1.8	13
54	Chemokine C-C motif ligand 2 overexpression drives tissue-specific metabolic responses in the liver and muscle of mice. <i>Scientific Reports</i> , 2020, 10, 11954.	1.6	13

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55	A placebo-controlled proof-of-concept study of alirocumab on postprandial lipids and vascular elasticity in insulin-treated patients with type 2 diabetes mellitus. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 807-816.	2.2	12
56	Chemokine (C-C motif) ligand 2 and coronary artery disease: Tissue expression of functional and atypical receptors. <i>Cytokine</i> , 2020, 126, 154923.	1.4	11
57	Alterations in plasma concentrations of energy-balance-related metabolites in patients with lung, or head & neck, cancers: Effects of radiotherapy. <i>Journal of Proteomics</i> , 2020, 213, 103605.	1.2	10
58	Coupling Machine Learning and Lipidomics as a Tool to Investigate Metabolic Dysfunction-Associated Fatty Liver Disease. A General Overview. <i>Biomolecules</i> , 2021, 11, 473.	1.8	10
59	Metabolomic mapping of cancer stem cells for reducing and exploiting tumor heterogeneity. <i>Oncotarget</i> , 2017, 8, 99223-99236.	0.8	9
60	Accelerated geronogenesis in hereditary breast-ovarian cancer syndrome. <i>Oncotarget</i> , 2016, 7, 11959-11971.	0.8	9
61	Evaluation of different extraction approaches for the determination of phenolic compounds and their metabolites in plasma by nanoLC-ESI-TOF-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 3081-3090.	1.9	8
62	Plasma Energy-Balance Metabolites Discriminate Asymptomatic Patients with Peripheral Artery Disease. <i>Mediators of Inflammation</i> , 2018, 2018, 1-12.	1.4	8
63	Different behavior of polyphenols in energy metabolism of lipopolysaccharide-stimulated cells. <i>Food Research International</i> , 2019, 118, 96-100.	2.9	8
64	Assessment of extracellular matrix-related biomarkers in patients with lower extremity artery disease. <i>Journal of Vascular Surgery</i> , 2018, 68, 1135-1142.e6.	0.6	7
65	Antioxidant Activity Evaluation of New Dosage Forms as Vehicles for Dehydrated Vegetables. <i>Plant Foods for Human Nutrition</i> , 2013, 68, 200-206.	1.4	6
66	Laparoscopic sleeve gastrectomy alters 1H-NMR-measured lipoprotein and glycoprotein profile in patients with severe obesity and nonalcoholic fatty liver disease. <i>Scientific Reports</i> , 2021, 11, 1343.	1.6	6
67	Nonalcoholic Steatohepatitis Modifies Serum Iron-Related Variables in Patients with Morbid Obesity. <i>Biological Trace Element Research</i> , 2021, 199, 4555-4563.	1.9	6
68	Effects of radiotherapy on plasma energy metabolites in patients with breast cancer who received neoadjuvant chemotherapy. <i>Clinical and Translational Oncology</i> , 2020, 22, 1078-1085.	1.2	5
69	Systemic overexpression of C-C motif chemokine ligand 2 promotes metabolic dysregulation and premature death in mice with accelerated aging. <i>Aging</i> , 2020, 12, 20001-20023.	1.4	5
70	Laparoscopic Sleeve Gastrectomy in Patients with Severe Obesity Restores Adaptive Responses Leading to Nonalcoholic Steatohepatitis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7830.	1.8	4
71	TEMPORARY REMOVAL: Glutaminolysis-induced mTORC1 activation drives non-alcoholic steatohepatitis progression. <i>Journal of Hepatology</i> , 2021, , .	1.8	3
72	Abstract P1-10-01: Safety and efficacy of neoadjuvant metformin with trastuzumab and chemotherapy in women with HER2-positive early breast cancer: A randomized, open-label, multicenter, phase 2 trial. <i>Cancer Research</i> , 2018, 78, P1-10-01-P1-10-01.	0.4	2

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73	The impact of polyphenols on chondrocyte growth and survival: a preliminary report. Food and Nutrition Research, 2015, 59, 29311.	1.2	1
74	Theobroma cacao improves bone growth by modulating defective ciliogenesis in a mouse model of achondroplasia. Bone Research, 2022, 10, 8.	5.4	0