

Salvador Fernandez-Arroyo

List of Publications by Citations

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73
papers

2,334
citations

29
h-index

46
g-index

75
ext. papers

2,723
ext. citations

5.1
avg. IF

4.7
L-index

#	Paper	IF	Citations
73	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	5.9	127
72	Xenohormetic and anti-aging activity of secoiridoid polyphenols present in extra virgin olive oil: a new family of gerosuppressant agents. <i>Cell Cycle</i> , 2013 , 12, 555-78	4.7	113
71	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	8.5	105
70	Synergism of plant-derived polyphenols in adipogenesis: perspectives and implications. <i>Phytomedicine</i> , 2012 , 19, 253-61	6.5	100
69	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, 2273-82	4.7	96
68	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	7	94
67	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	7	76
66	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	7	76
65	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	11.5	75
64	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, 303-12	3.4	70
63	Metformin regulates global DNA methylation via mitochondrial one-carbon metabolism. <i>Oncogene</i> , 2018 , 37, 963-970	9.2	65
62	Cocoa and Grape Seed Byproducts as a Source of Antioxidant and Anti-Inflammatory Proanthocyanidins. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	65
61	Metformin Is a Direct SIRT1-Activating Compound: Computational Modeling and Experimental Validation. <i>Frontiers in Endocrinology</i> , 2018 , 9, 657	5.7	64
60	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, 279-87	5.5	60
59	Reshaping of Human Macrophage Polarization through Modulation of Glucose Catabolic Pathways. <i>Journal of Immunology</i> , 2015 , 195, 2442-51	5.3	58
58	Isolation, comprehensive characterization and antioxidant activities of <i>Theobroma cacao</i> extract. <i>Journal of Functional Foods</i> , 2014 , 10, 485-498	5.1	56
57	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, 1132-44	4.7	54

56	Mitophagy-driven mitochondrial rejuvenation regulates stem cell fate. <i>Aging</i> , 2016 , 8, 1330-52	5.6	54
55	Bioavailability study of a polyphenol-enriched extract from Hibiscus sabdariffa in rats and associated antioxidant status. <i>Molecular Nutrition and Food Research</i> , 2012 , 56, 1590-5	5.9	52
54	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, 20382-402	6.3	51
53	Metformin directly targets the H3K27me3 demethylase KDM6A/UTX. <i>Aging Cell</i> , 2018 , 17, e12772	9.9	43
52	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 Cistus ladanifer aqueous extract. <i>Phytochemical Analysis</i> , 2010 , 21, 307-13	3.4	41
51	Oncometabolic mutation IDH1 R132H confers a metformin-hypersensitive phenotype. <i>Oncotarget</i> , 2015 , 6, 12279-96	3.3	41
50	Hibiscus sabdariffa extract lowers blood pressure and improves endothelial function. <i>Molecular Nutrition and Food Research</i> , 2014 , 58, 1374-8	5.9	40
49	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, 128-34	3.5	38
48	Extra-virgin olive oil contains a metabolo-epigenetic inhibitor of cancer stem cells. <i>Carcinogenesis</i> , 2018 , 39, 601-613	4.6	35
47	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	2.6	34
46	Progress in the Synthesis of Poly(2,7-Fluorene-alt-1,4-Phenylene), PFP, via Suzuki Coupling.. <i>Macromolecules</i> , 2009 , 42, 5471-5477	5.5	34
45	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	3.3	34
44	Oncometabolic Nuclear Reprogramming of Cancer Stemness. <i>Stem Cell Reports</i> , 2016 , 6, 273-83	8	28
43	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, 168-77	3.5	28
42	Paraoxonases and chemokine (C-C motif) ligand-2 in noncommunicable diseases. <i>Advances in Clinical Chemistry</i> , 2014 , 63, 247-308	5.8	25
41	Methotrexate selectively targets human proinflammatory macrophages through a thymidylate synthase/p53 axis. <i>Annals of the Rheumatic Diseases</i> , 2016 , 75, 2157-2165	2.4	24
40	Activation of the methylation cycle in cells reprogrammed into a stem cell-like state. <i>Oncoscience</i> , 2015 , 2, 958-967	0.8	24
39	Germline BRCA1 mutation reprograms breast epithelial cell metabolism towards mitochondrial-dependent biosynthesis: evidence for metformin-based "starvation" strategies in BRCA1 carriers. <i>Oncotarget</i> , 2016 , 7, 52974-52992	3.3	24

38	Nutrients in Energy and One-Carbon Metabolism: Learning from Metformin Users. <i>Nutrients</i> , 2017 , 9,	6.7	21
37	The acute impact of polyphenols from Hibiscus sabdariffa in metabolic homeostasis: an approach combining metabolomics and gene-expression analyses. <i>Food and Function</i> , 2015 , 6, 2957-66	6.1	20
36	Epigenetics and nutrition-related epidemics of metabolic diseases: Current perspectives and challenges. <i>Food and Chemical Toxicology</i> , 2016 , 96, 191-204	4.7	20
35	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	4.4	19
34	Metformin induces a fasting- and antifolate-mimicking modification of systemic host metabolism in breast cancer patients. <i>Aging</i> , 2019 , 11, 2874-2888	5.6	18
33	Laparoscopic sleeve gastrectomy reverses non-alcoholic fatty liver disease modulating oxidative stress and inflammation. <i>Metabolism: Clinical and Experimental</i> , 2019 , 99, 81-89	12.7	17
32	Bioassay-guided purification of Lippia citriodora polyphenols with AMPK modulatory activity. <i>Journal of Functional Foods</i> , 2018 , 46, 514-520	5.1	16
31	Metformin targets histone acetylation in cancer-prone epithelial cells. <i>Cell Cycle</i> , 2016 , 15, 3355-3361	4.7	15
30	Managing hypertension by polyphenols. <i>Planta Medica</i> , 2015 , 81, 624-9	3.1	14
29	Effect of radiotherapy on activity and concentration of serum paraoxonase-1 in breast cancer patients. <i>PLoS ONE</i> , 2017 , 12, e0188633	3.7	14
28	Metformin Potentiates the Benefits of Dietary Restraint: A Metabolomic Study. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	12
27	Metabolite normalization with local radiotherapy following breast tumor resection. <i>PLoS ONE</i> , 2018 , 13, e0207474	3.7	12
26	Effect of Vitamin D on the Postprandial Lipid Profile in Obese Patients: A Non-Targeted Lipidomics Study. <i>Nutrients</i> , 2019 , 11,	6.7	10
25	Accelerated geroncogenesis in hereditary breast-ovarian cancer syndrome. <i>Oncotarget</i> , 2016 , 7, 11959-713	3.3	9
24	An olive oil phenolic is a new chemotype of mutant isocitrate dehydrogenase 1 (IDH1) inhibitors. <i>Carcinogenesis</i> , 2019 , 40, 27-40	4.6	9
23	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	6.9	8
22	Metabolomic mapping of cancer stem cells for reducing and exploiting tumor heterogeneity. <i>Oncotarget</i> , 2017 , 8, 99223-99236	3.3	8
21	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, 3081-90	4.4	8

20	Plasma metabolic alterations in patients with severe obesity and non-alcoholic steatohepatitis. <i>Alimentary Pharmacology and Therapeutics</i> , 2020 , 51, 374-387	6.1	8
19	Plasma Energy-Balance Metabolites Discriminate Asymptomatic Patients with Peripheral Artery Disease. <i>Mediators of Inflammation</i> , 2018 , 2018, 2760272	4.3	8
18	Chemokine (C-C motif) ligand 2 and coronary artery disease: Tissue expression of functional and atypical receptors. <i>Cytokine</i> , 2020 , 126, 154923	4	7
17	Antioxidant activity evaluation of new dosage forms as vehicles for dehydrated vegetables. <i>Plant Foods for Human Nutrition</i> , 2013 , 68, 200-6	3.9	6
16	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	6.7	6
15	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	4.9	6
14	Different behavior of polyphenols in energy metabolism of lipopolysaccharide-stimulated cells. <i>Food Research International</i> , 2019 , 118, 96-100	7	6
13	Bioactive Compounds from Theobroma cacao: Effect of Isolation and Safety Evaluation. <i>Plant Foods for Human Nutrition</i> , 2019 , 74, 40-46	3.9	5
12	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	6.3	5
11	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	3.6	4
10	Assessment of extracellular matrix-related biomarkers in patients with lower extremity artery disease. <i>Journal of Vascular Surgery</i> , 2018 , 68, 1135-1142.e6	3.5	3
9	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	3.9	3
8	Coupling Machine Learning and Lipidomics as a Tool to Investigate Metabolic Dysfunction-Associated Fatty Liver Disease. A General Overview. <i>Biomolecules</i> , 2021 , 11,	5.9	3
7	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 2018 ,		2
6	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	5.6	2
5	Glutaminolysis-induced mTORC1 activation drives non-alcoholic steatohepatitis progression. <i>Journal of Hepatology</i> , 2021 ,	13.4	2
4	Nonalcoholic Steatohepatitis Modifies Serum Iron-Related Variables in Patients with Morbid Obesity. <i>Biological Trace Element Research</i> , 2021 , 199, 4555-4563	4.5	2
3	The impact of polyphenols on chondrocyte growth and survival: a preliminary report. <i>Food and Nutrition Research</i> , 2015 , 59, 29311	3.1	1

2	Laparoscopic sleeve gastrectomy alters H-NMR-measured lipoprotein and glycoprotein profile in patients with severe obesity and nonalcoholic fatty liver disease. <i>Scientific Reports</i> , 2021 , 11, 1343	4.9	1
1	Theobroma cacao improves bone growth by modulating defective ciliogenesis in a mouse model of achondroplasia.. <i>Bone Research</i> , 2022 , 10, 8	13.3	