Francisco Cruz-Sosa

List of Publications by Year
in descending order

65 papers	1,289 citations	471509 17 h-index	414414 32 g-index
67 all docs	67 docs citations	67 times ranked	1732 citing authors

#	Article	IF	Citations
1	Gum Arabicâˆ’Chitosan Complex Coacervation. Biomacromolecules, 2007, 8, 1313-1318.	5.4	137
2	Prosopis laevigata a potential chromium (VI) and cadmium (II) hyperaccumulator desert plant. Bioresource Technology, 2010, 101, 5862-5867.	9.6	112
3	Pre-selection of protective colloids for enhanced viability of Bifidobacterium bifidum following spray-drying and storage, and evaluation of aguamiel as thermoprotective prebiotic. Food Research International, 2007, 40, 1299-1306.	6.2	70
4	Extraction of phenolic compounds from Satureja macrostema using microwave-ultrasound assisted and reflux methods and evaluation of their antioxidant activity and cytotoxicity. Industrial Crops and Products, 2017, 103, 213-221.	5.2	70
5	In vitro evaluation of germination and growth of five plant species on medium supplemented with hydrocarbons associated with contaminated soils. Bioresource Technology, 2008, 99, 6379-6385.	9.6	58
6	Mesquite gum: fractionation and characterization of the gum exuded from Prosopis laevigata obtained from plant tissue culture and from wild trees. Carbohydrate Polymers, 2003, 54, 327-333.	10.2	53
7	Application and evaluation of mesquite gum and its fractions as interfacial film formers and emulsifiers of orange peel-oil. Food Hydrocolloids, 2009, 23, 708-713.	10.7	47
8	Phenylpropanoid production in callus and cell suspension cultures of Buddleja cordata Kunth. Plant Cell, Tissue and Organ Culture, 2009, 97, 39-47.	2.3	39
9	Production of Dihydroxylated Betalains and Dopamine in Cell Suspension Cultures of Celosia argentea var. plumosa. Journal of Agricultural and Food Chemistry, 2015, 63, 2741-2749.	5.2	38
10	Production of anti-HIV-1 calanolides in a callus culture of Calophyllum brasiliense (Cambes). Plant Cell, Tissue and Organ Culture, 2010, 103, 33-40.	2.3	30
11	Clonal propagation of mesquite tree (Prosopis laevigata Humb. & Bonpl. ex Willd. M.C. Johnston). I. Via cotyledonary nodes. In Vitro Cellular and Developmental Biology - Plant, 2007, 43, 260-266.	2.1	29
12	Engineering Considerations to Produce Bioactive Compounds from Plant Cell Suspension Culture in Bioreactors. Plants, 2021, 10, 2762.	3.5	29
13	Structural changes of corn starch duringSaccharomyces cerevisiaefermentation. Starch/Staerke, 2016, 68, 961-971.	2.1	28
14	Somatic embryogenesis of the heavy metal accumulator Prosopis laevigata. Plant Cell, Tissue and Organ Culture, 2012, 108, 287-296.	2.3	26
15	Insights of the ability of gelatinized fractions from non-chemical modified corn, rice, wheat, and waxy corn starches to stabilize O/W emulsions. Food Hydrocolloids, 2019, 89, 726-734.	10.7	26
16	Sphaeralcic Acid and Tomentin, Anti-inflammatory Compounds Produced in Cell Suspension Cultures of Sphaeralcea angustifolia. Planta Medica, 2014, 80, 209-214.	1.3	21
17	Brominated Metabolites from the Sponge Aplysina (verongia) thiona. Journal of Natural Products, 1990, 53, 543-548.	3.0	19
18	Alkyl glycerol monoethers in the marine spongeDesmapsamma anchorata. Lipids, 1994, 29, 731-734.	1.7	19

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19	Production of chlorogenic acid and isoorientin hypoglycemic compounds in Cecropia obtusifolia calli and in cell suspension cultures with nitrate deficiency. Acta Physiologiae Plantarum, 2012, 34, 307-316.	2.1	19
20	Effect of layer (calcium phosphateâ€“chitosan)-by-layer (mesquite gum) matrix on carotenoids-in-water-emulsion properties. Food Hydrocolloids, 2015, 43, 451-458.	10.7	19
21	Establishment and Phytochemical Analysis of a Callus Culture from Ageratina pichinchensis (Asteraceae) and Its Anti-Inflammatory Activity. Molecules, 2018, 23, 1258.	3.8	19
22	Phytochemical Profiling of Coryphantha macromeris (Cactaceae) Growing in Greenhouse Conditions Using Ultra-High-Performance Liquid Chromatographyâ€“Tandem Mass Spectrometry. Molecules, 2019, 24, 705.	3.8	18
23	Effect of the culture medium and biotic stimulation on taxane production in Taxus globosa Schltdl in vitro cultures. Acta Physiologiae Plantarum, 2013, 35, 3447-3455.	2.1	16
24	Accumulation and tolerance of Cr and Pb using a cell suspension culture system of Jatropha curcas. Plant Cell, Tissue and Organ Culture, 2015, 120, 221-228.	2.3	16
25	Production of potential anti-inflammatory compounds in cell suspension cultures of Sphaeralcea angustifolia (Cav.) G. Don. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	16
26	Establishment of callus and cell suspension cultures of Eysenhardtia polystachya (Ortega) and fungistatic activity of their extracts. South African Journal of Botany, 2017, 112, 40-47.	2.5	16
27	Lupeol acetate production and antioxidant activity of a cell suspension culture from Cnidoscolus chayamansa leaves. South African Journal of Botany, 2019, 125, 30-38.	2.5	15
28	Effect of stirring speed on the production of phenolic secondary metabolites and growth of Buddleja cordata cells cultured in mechanically agitated bioreactor. Plant Cell, Tissue and Organ Culture, 2019, 139, 155-166.	2.3	14
29	Establishment of a Cell Suspension Culture of Ageratina pichinchensis (Kunth) for the Improved Production of Anti-Inflammatory Compounds. Plants, 2020, 9, 1398.	3.5	13
30	Propiedades antioxidantes del maguey morado (Rhoeo discolor) Purple maguey (Rhoeo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.9	12
31	Exploring the Cr(VI) Phytoremediation Potential of Cosmos bipinnatus. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	12
32	Alternative supplements for Agaricus bisporus production and the response on lignocellulolytic enzymes. Scientia Horticulturae, 2015, 192, 375-380.	3.6	12
33	Biomass production and secondary metabolite identification in callus cultures of Coryphantha macromeris (Engelm.) Britton & Rose (Cactaceae), a traditional medicinal plant. South African Journal of Botany, 2021, 137, 1-9.	2.5	12
34	Characterization and Stability of Pigments Extracted from Terminalia Catappa Leaves. Journal of Food Science, 2001, 66, 832-836.	3.1	11
35	Increased mesquite gum formation in nodal explants cultures after treatment with a microbial biomass preparation. Plant Physiology and Biochemistry, 2005, 43, 802-807.	5.8	11
36	In vitro propagation of two antidiabetic species known as guarumbo: Cecropia obtusifolia and Cecropia peltata. Acta Physiologiae Plantarum, 2009, 31, 905-914.	2.1	11

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37	Effect of plant growth regulators on plant regeneration of Dioscorea remotiflora (Kunth) through nodal explants. Plant Growth Regulation, 2012, 68, 293-301.	3.4	11
38	Anti-inflammatory, antibacterial and antioxidant activity of leaf and cell cultures extracts of Randia aculeata L. and its chemical components by GC-MS. South African Journal of Botany, 2022, 144, 206-218.	2.5	11
39	Arnica montana Cell Culture Establishment, and Assessment of Its Cytotoxic, Antibacterial, Î±-Amylase Inhibitor, and Antioxidant In Vitro Bioactivities. Plants, 2021, 10, 2300.	3.5	11
40	Establishment and characterization of Prosopis laevigata (Humb. & Bonpl. ex Willd) M.C. Johnst. cell suspension culture: a biotechnology approach for mesquite gum production. Acta Physiologiae Plantarum, 2011, 33, 1687-1695.	2.1	10
41	Effects of phenylalanine and methyl jasmonate on verbascoside production in Buddleja cordata Kunth cell suspension cultures. South African Journal of Botany, 2020, 135, 41-49.	2.5	10
42	Honokiol and Magnolol Production by in vitro Micropropagated Plants of Magnolia dealbata, an Endangered Endemic Mexican Species. Natural Product Communications, 2010, 5, 1934578X1000500.	0.5	9
43	Taxane production induced by methyl jasmonate in free and immobilized cell cultures of Mexican yew (Taxus globosa Schltdl). Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	9
44	Verbascoside production in long-term Buddleja cordata Kunth cell suspension cultures. 3 Biotech, 2020, 10, 245.	2.2	9
45	Fatty acid profile of intact plants of two different sites and callus cultures derived from seed and leaf explants of Calophyllum brasiliense Cambess: A new resource of non-edible oil. Industrial Crops and Products, 2015, 77, 1014-1019.	5.2	8
46	Effects of solidâ€state fermentation (Aspergillus oryzae var. oryzae) on the physicochemical properties of corn starch. Starch/Staerke, 2017, 69, 1600369.	2.1	8
47	HistoquÃmica, contenido de fenoles totales y actividad antioxidante de hoja y de madera de Litsea glaucescens Kunth (Lauraceae). Madera Bosques, 2014, 20, 125-137.	0.2	8
48	Identification of candidate genes related to calanolide biosynthesis by transcriptome sequencing of Calophyllum brasiliense (Calophyllaceae). BMC Plant Biology, 2016, 16, 177.	3.6	7
49	Microencapsulation of chlorthalidone by spray-drying of double emulsion and melt granulation coating. Drying Technology, 2016, 34, 1118-1128.	3.1	7
50	In vivo anti-arthritic effect and repeated dose toxicity of standardized methanolic extracts of Buddleja cordata Kunth (Scrophulariaceae) wild plant leaves and cell culture. Journal of Ethnopharmacology, 2019, 240, 111875.	4.1	7
51	Enhancing the production of scopoletin and quercetin 3-O-Î²-d-glucoside from cell suspension cultures of Tilia americana var. mexicana by modulating the copper and nitrate concentrations. Plant Cell, Tissue and Organ Culture, 2019, 139, 305-316.	2.3	6
52	Establishment of a Cell Suspension Culture of Eysenhardtia platycarpa: Phytochemical Screening of Extracts and Evaluation of Antifungal Activity. Plants, 2021, 10, 414.	3.5	6
53	Production of Honokiol and Magnolol in Suspension Cultures of Magnolia Dealbata Zucc. Natural Product Communications, 2009, 4, 1934578X0900400.	0.5	5
54	Anatomical and histochemical characterization of in vitro haustorium from roots of Castilleja tenuiflora. Biologia Plantarum, 2014, 58, 164-168.	1.9	5

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55	Phytochemical, Pharmacological, and Biotechnological Study of Ageratina pichinchensis: A Native Species of Mexico. Plants, 2021, 10, 2225.	3.5	5
56	Active compounds and anti-inflammatory activity of the methanolic extracts of the leaves and callus from Tilia americana var. mexicana propagated plants. Plant Cell, Tissue and Organ Culture, 2019, 137, 55-64.	2.3	4
57	In vitro SIMULTANEOUS ACCUMULATION OF MULTIPLE HEAVY METALS BY Prosopis laevigata SEEDLINGS CULTURES. Revista Mexicana De Ingeniera Quimica, 2019, 18, 1167-1177.	0.4	4
58	Phytoremediation and Removal Mechanisms inBouteloua CurtipendulaGrowing in Sterile Hydrocarbon Spiked Cultures. International Journal of Phytoremediation, 2011, 13, 613-625.	3.1	3
59	PHYTOCHEMICAL PROFILE OF Coryphantha macromeris (Engelm.) Britton and Rose CACTACEAE OBTAINED FROM in vitro CULTURE. Revista Mexicana De Ingeniera Quimica, 2019, 19, 239-249.	0.4	3
60	The chemical constituents and biological activities of Cnidoscolus chayamansa McVaugh, a Mexican medicinal species, and plant cell cultures for the production of bioactive secondary metabolites. Studies in Natural Products Chemistry, 2021, 68, 317-346.	1.8	2
61	ESTABLISHMENT OF A CELL SUSPENSION CULTURE FROM Calophyllum brasiliense AND EVALUATION OF ITS ANTIOXIDANT AND ANTI-INFLAMMATORY ACTIVITY. Revista Mexicana De Ingeniera Quimica, 2019, 19, 59-70.	0.4	2
62	Procedure for Estimating the Tolerance and Accumulation of Heavy Metals Using Plant Cell Cultures. Methods in Molecular Biology, 2018, 1815, 333-337.	0.9	0
63	Water-in-oil nanoemulsions loaded with Ardisia compressa K. bioactive compounds: evaluation of their physicochemical stability and functional activities. Journal of Dispersion Science and Technology, 2020, , 1-14.	2.4	0
64	Production of honokiol and magnolol in suspension cultures of Magnolia dealbata Zucc.. Planta Medica, 2012, 78, .	1.3	0
65	Impact of the Cooking Process on Metabolite Profiling of Acanthocereus tetragonus, a Plant Traditionally Consumed in Mexico. Molecules, 2022, 27, 3707.	3.8	0