Federico Garcia-Maroto

List of Publications by Year
in descending order

58 papers	1,918 citations	279487 23 h-index	253896 43 g-index
59 all docs	59 docs citations	59 times ranked	2368 citing authors

#	Article	IF	Citations
1	The barley Hooded mutation caused by a duplication in a homeobox gene intron. Nature, 1995, 374, 727-730.	13.7	227
2	Synthesis, Characterization, and DNA Binding of New Water-Soluble Cyclopentadienyl Ruthenium(II) Complexes Incorporating Phosphines. Inorganic Chemistry, 2006, 45, 1289-1298.	1.9	132
3	Cloning, mapping and expression analysis of barley MADS-box genes. Plant Molecular Biology, 2000, 42, 899-913.	2.0	106
4	Plants as â€˜chemical factoriesâ€™ for the production of polyunsaturated fatty acids. Biotechnology Advances, 2000, 18, 481-497.	6.0	93
5	Evolution of the membrane-bound fatty acid desaturases. Biochemical Systematics and Ecology, 2003, 31, 1111-1124.	0.6	84
6	Fatty acid profiles from forty-nine plant species that are potential new sources of Î³-linolenic acid. JAOCS, Journal of the American Oil Chemists' Society, 2001, 78, 677-684.	0.8	73
7	Isolation and molecular characterization of a new vegetative MADS-box gene from Solanum tuberosum L.. Planta, 1998, 207, 181-188.	1.6	72
8	Î²-Cyclodextrin-Bearing Gold Glyconanoparticles for the Development of Site Specific Drug Delivery Systems. Langmuir, 2014, 30, 234-242.	1.6	68
9	Occurrence and characterization of oils rich in Î³-linolenic acid. Phytochemistry, 2000, 53, 451-456.	1.4	64
10	Cloning of cDNA and chromosomal location of genes encoding the three types of subunits of the wheat tetrameric inhibitor of insect ?-amylase. Plant Molecular Biology, 1990, 14, 845-853.	2.0	63
11	Î”6-Desaturase sequence evidence for explosive Pliocene radiations within the adaptive radiation of Macaronesian Echium (Boraginaceae). Molecular Phylogenetics and Evolution, 2009, 52, 563-574.	1.2	60
12	DNA Interactions Mediated by Cyclopentadienidoruthenium(II) Complexes Containing Water-Soluble Phosphanes. European Journal of Inorganic Chemistry, 2007, 2007, 2803-2812.	1.0	58
13	DNA Sequencing Sensors: An Overview. Sensors, 2017, 17, 588.	2.1	53
14	Cloning and molecular characterization of the Î”6-desaturase from two Echium plant species: Production of GLA by heterologous expression in yeast and tobacco. Lipids, 2002, 37, 417-426.	0.7	50
15	The multigene family of lysophosphatidate acyltransferase (LPAT)-related enzymes in Ricinus communis. Cloning and molecular characterization of two LPAT genes that are expressed in castor seeds. Plant Science, 2013, 199-200, 29-40.	1.7	50
16	Characterization of the potato MADS-box gene STMADS16 and expression analysis in tobacco transgenic plants. Plant Molecular Biology, 2000, 42, 499-513.	2.0	47
17	Occurrence and characterization of oils rich in Î³-linolenic acid (III): the taxonomical value of the fatty acids in Echium (Boraginaceae). Phytochemistry, 2001, 58, 117-120.	1.4	45
18	Site-directed mutagenesis and expression inEscherichia coli of WMAI-1, a wheat monomeric inhibitor of insect ?-amylase. Plant Molecular Biology, 1991, 17, 1005-1011.	2.0	41

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19	Molecular cloning and expression patterns of three alleles of the Deficiens-homologous gene St-Deficiens from Solanum tuberosum. Plant Journal, 1993, 4, 771-780.	2.8	36
20	Gamma-linolenic acid from fourteen boraginaceae species. Industrial Crops and Products, 2003, 18, 85-89.	2.5	33
21	Purification and characterization of mRNA cap-binding protein from Drosophila melanogaster embryos.. Molecular and Cellular Biology, 1989, 9, 2181-2190.	1.1	32
22	Cloning and Molecular Characterization of the Acylâ€CoA:Diacylglycerol Acyltransferase 1 (DGAT1) Gene from Echium. Lipids, 2009, 44, 555-568.	0.7	28
23	Occurrence and characterization of oils rich in Î³-linolenic acid Part II: fatty acids and squalene from Macaronesian Echium leaves. Phytochemistry, 2000, 54, 525-529.	1.4	25
24	New Roles for MADS-box Genes in Higher Plants. Biologia Plantarum, 2003, 46, 321-330.	1.9	22
25	Implications of the ligandin binding site on the binding of non-substrate ligands to Schistosoma japonicum-glutathione transferase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1698, 227-237.	1.1	22
26	Cloning and molecular characterization of a glycerol-3-phosphate O-acyltransferase (GPAT) gene from Echium (Boraginaceae) involved in the biosynthesis of cutin polyesters. Planta, 2010, 232, 987-997.	1.6	20
27	Dual properties of water-soluble Ru-PTA complexes of dendrimers: Catalysis and interaction with DNA. Inorganica Chimica Acta, 2018, 470, 106-112.	1.2	20
28	Substrate specificity of acyl-Î”6-desaturases from Continental versus Macaronesian Echium species. Phytochemistry, 2006, 67, 540-544.	1.4	19
29	Differential expression of the ornithine decarboxylase gene during carposporogenesis in the thallus of the red seaweed Grateloupia imbricata (Halymeniaceae). Journal of Plant Physiology, 2009, 166, 1745-1754.	1.6	19
30	A distinct subfamily of papain-like cystein proteinases regulated by senescence and stresses in Glycine max. Journal of Plant Physiology, 2010, 167, 1101-1108.	1.6	19
31	Overexpression of a flowerâ€specific aerolysinâ€like protein from the dioecious plant Rumex acetosa alters flower development and induces male sterility in transgenic tobacco. Plant Journal, 2017, 89, 58-72.	2.8	19
32	Cloning and molecular characterisation of a Î”8-sphingolipid-desaturase from Nicotiana tabacum closely related to Î”6-acyl-desaturases. Plant Molecular Biology, 2007, 64, 241-250.	2.0	17
33	Molecular Characterization of a Lysophosphatidylcholine Acyltransferase Gene Belonging to the MBOAT Family in Ricinus communis L.. Lipids, 2013, 48, 663-674.	0.7	17
34	Nucleotide sequence of a cDNA encoding an ?/?-type gliadin from hexaploid wheat (Triticum aestivum). Plant Molecular Biology, 1990, 14, 867-868.	2.0	16
35	Binding properties of ferroceneâ€“glutathione conjugates as inhibitors and sensors for glutathione S-transferases. Biochimie, 2012, 94, 541-550.	1.3	16
36	Tools for microalgal biotechnology: development of an optimized transformation method for an industrially promising microalgaâ€”Tetraselmis chuii. Journal of Applied Phycology, 2015, 27, 223-232.	1.5	15

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37	Heterologous expression of DGAT genes in the marine microalga Tetraselmis chui leads to an increase in TAG content. Journal of Applied Phycology, 2017, 29, 1913-1926.	1.5	15
38	Kinetic study on the irreversible thermal denaturation of Schistosoma japonicum glutathione s-transferase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 979-984.	1.1	14
39	Development of genetic transformation methodologies for an industrially-promising microalga: Scenedesmus almeriensis. Biotechnology Letters, 2014, 36, 2551-2558.	1.1	14
40	Characterization of the 11S Globulin Gene Family in the Castor Plant Ricinus communis L.. Journal of Agricultural and Food Chemistry, 2010, 58, 272-281.	2.4	13
41	Type I Diacylglycerol Acyltransferase (MtDGAT1) from Macadamia tetraphylla: Cloning, Characterization, and Impact of Its Heterologous Expression on Triacylglycerol Composition in Yeast. Journal of Agricultural and Food Chemistry, 2016, 64, 277-285.	2.4	9
42	Î³-Linolenic acid from caryophyllaceae seed oil. JAOCS, Journal of the American Oil Chemists' Society, 2004, 81, 659-661.	0.8	8
43	Ferrocene labelings as inhibitors and dual electrochemical sensors of human glutathione S-transferase P1-1. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 7256-7260.	1.0	8
44	Extreme variations in the ratios of non-synonymous to synonymous nucleotide substitution rates in signal peptide evolution. FEBS Letters, 1991, 287, 67-70.	1.3	7
45	Genetic relationships and population structure within taxa of the endemic Sideritis pusilla (Lamiaceae) assessed using RAPDs. Botanical Journal of the Linnean Society, 1999, 129, 345-358.	0.8	6
46	Calorimetric Studies of Ligands Binding to Glutathione S-Transferase from the Malarial Parasite Plasmodium falciparum. Biochemistry, 2013, 52, 1980-1989.	1.2	6
47	Cloning and molecular characterization of a class A lysophosphatidate acyltransferase gene (<scp>E</scp>p<scp>LPAT</scp>2) from Echium (<scp>B</scp>oraginaceae). European Journal of Lipid Science and Technology, 2013, 115, 1334-1346.	1.0	6
48	Phosphorylation and guanine nucleotide exchange on polypeptide chain initiation factor-2 from Artemia embryos. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1989, 1007, 55-60.	2.4	5
49	Essential Oil Composition ofSideritis pusilla(Lange) Pau ssp.. Journal of Essential Oil Research, 2004, 16, 535-538.	1.3	5
50	Impact of temperature and growth phases on lipid composition and fatty acid profile of a thermophilic Bacillariophyta strain related to the genus Halamphora from north-eastern Tunisia. Journal of the Marine Biological Association of the United Kingdom, 2020, 100, 529-536.	0.4	5
51	Asn112 in Plasmodium falciparum glutathione S-transferase is essential for induced reversible tetramerization by phosphate or pyrophosphate. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1427-1436.	1.1	4
52	Synthesis of Na₂{transâ€[PdCl₂(mTPPMSâ€P)₂]}: Interaction with DNA and Reactivity with 8â€Thiotheophylline. European Journal of Inorganic Chemistry, 2013, 2013, 4251-4257.	1.0	3
53	Evaluation and optimization of a methodology for the long-term cryogenic storage of Tetradesmus obliquus at â^'â€‰80ÂÂ°C. Applied Microbiology and Biotechnology, 2019, 103, 2381-2390.	1.7	3
54	Validation of a New Multicistronic Plasmid for the Efficient and Stable Expression of Transgenes in Microalgae. International Journal of Molecular Sciences, 2020, 21, 718.	1.8	3

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55	Evolution of â€˜front-endâ€™ desaturases in Echium (Boraginaceae). Biochemical Systematics and Ecology, 2006, 34, 327-337.	0.6	2
56	Plasmodium vivax Cysteine-Rich Protective Antigen Polymorphism at Exon-1 Shows Recombination and Signatures of Balancing Selection. Genes, 2021, 12, 29.	1.0	1
57	Genomic organization and transcriptional analysis of STDEFICIENS in Solanum tuberosum L. Gene, 2001, 264, 163-171.	1.0	0
58	Oil Biosynthesis and Biotechnology in the Castor Bean. Compendium of Plant Genomes, 2018, , 197-213.	0.3	0