Luis Rafael Herrera Estrella

List of Publications by Year
in descending order

235 papers	21,803 citations	12303 69 h-index	10424 139 g-index
286 all docs	286 docs citations	286 times ranked	18702 citing authors

#	Article	IF	Citations
1	The role of nutrient availability in regulating root architecture. Current Opinion in Plant Biology, 2003, 6, 280-287.	3.5	1,219
2	A genome-wide transcriptional analysis using Arabidopsis thaliana Affymetrix gene chips determined plant responses to phosphate deprivation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11934-11939.	3.3	834
3	The <i>Amborella</i> Genome and the Evolution of Flowering Plants. Science, 2013, 342, 1241089.	6.0	743
4	Plant abiotic stress response and nutrient use efficiency. Science China Life Sciences, 2020, 63, 635-674.	2.3	689
5	Whole-genome sequencing of cultivated and wild peppers provides insights into <i>Capsicum</i> domestication and specialization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5135-5140.	3.3	674
6	Phosphate Availability Alters Architecture and Causes Changes in Hormone Sensitivity in the Arabidopsis Root System. Plant Physiology, 2002, 129, 244-256.	2.3	661
7	Phosphate Nutrition: Improving Low-Phosphate Tolerance in Crops. Annual Review of Plant Biology, 2014, 65, 95-123.	8.6	634
8	Expression of chimaeric genes transferred into plant cells using a Ti-plasmid-derived vector. Nature, 1983, 303, 209-213.	13.7	576
9	Positive regulatory role of strigolactone in plant responses to drought and salt stress. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 851-856.	3.3	555
10	Aluminum Tolerance in Transgenic Plants by Alteration of Citrate Synthesis. Science, 1997, 276, 1566-1568.	6.0	484
11	Phosphate Availability Alters Lateral Root Development in<i>Arabidopsis</i>by Modulating Auxin Sensitivity via a Mechanism Involving the TIR1 Auxin Receptor. Plant Cell, 2009, 20, 3258-3272.	3.1	471
12	Organic acid metabolism in plants: from adaptive physiology to transgenic varieties for cultivation in extreme soils. Plant Science, 2000, 160, 1-13.	1.7	443
13	Using membrane transporters to improve crops for sustainable food production. Nature, 2013, 497, 60-66.	13.7	440
14	Targeting of a foreign protein to chloroplasts by fusion to the transit peptide from the small subunit of ribulose 1,5-bisphosphate carboxylase. Nature, 1985, 313, 358-363.	13.7	340
15	Phosphate Starvation Induces a Determinate Developmental Program in the Roots of Arabidopsis thaliana. Plant and Cell Physiology, 2005, 46, 174-184.	1.5	329
16	Expression of foreign genes in regenerated plants and in their progeny. EMBO Journal, 1984, 3, 1681-1689.	3.5	328
17	Polar and brown bear genomes reveal ancient admixture and demographic footprints of past climate change. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2382-90.	3.3	310
18	CLA1, a novel gene required for chloroplast development, is highly conserved in evolution. Plant Journal, 1996, 9, 649-658.	2.8	300

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19	Right 25 by terminus sequence of the nopaline t-DNA is essential for and determines direction of DNA transfer from Agrobacterium to the plant genome. Cell, 1984, 38, 455-462.	13.5	297
20	Geminivirus Replication Origins Have a Group-Specific Organization of Iterative Elements: A Model for Replication. Virology, 1994, 203, 90-100.	1.1	295
21	Architecture and evolution of a minute plant genome. Nature, 2013, 498, 94-98.	13.7	293
22	Enhanced phosphorus uptake in transgenic tobacco plants that overproduce citrate. Nature Biotechnology, 2000, 18, 450-453.	9.4	279
23	Phospholipase DZ2 plays an important role in extraplastidic galactolipid biosynthesis and phosphate recycling in Arabidopsis roots. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6765-6770.	3.3	246
24	Light-inducible and chloroplast-associated expression of a chimaeric gene introduced into Nicotiana tabacum using a Ti plasmid vector. Nature, 1984, 310, 115-120.	13.7	229
25	Improving phosphorus use efficiency: a complex trait with emerging opportunities. Plant Journal, 2017, 90, 868-885.	2.8	229
26	Malate-dependent Fe accumulation is a critical checkpoint in the root developmental response to low phosphate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3563-E3572.	3.3	226
27	Uptake, integration, expression and genetic transmission of a selectable chimaeric gene by plant protoplasts. Molecular Genetics and Genomics, 1985, 199, 161-168.	2.4	220
28	Analysis of Gene Expression and Physiological Responses in Three Mexican Maize Landraces under Drought Stress and Recovery Irrigation. PLoS ONE, 2009, 4, e7531.	1.1	193
29	<i>Arabidopsis</i> AHP2, AHP3, and AHP5 histidine phosphotransfer proteins function as redundant negative regulators of drought stress response. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4840-4845.	3.3	191
30	Introduction of Genetic Material into Plant Cells. Science, 1983, 222, 815-821.	6.0	188
31	Photosynthesis-Associated Gene Families: Differences in Response to Tissue-Specific and Environmental Factors. Science, 1986, 233, 34-38.	6.0	188
32	<i>Arabidopsis</i> type B cytokinin response regulators ARR1, ARR10, and ARR12 negatively regulate plant responses to drought. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3090-3095.	3.3	186
33	An Auxin Transport Independent Pathway Is Involved in Phosphate Stress-Induced Root Architectural Alterations in Arabidopsis. Identification of BIG as a Mediator of Auxin in Pericycle Cell Activation. Plant Physiology, 2005, 137, 681-691.	2.3	181
34	Characterization of low phosphorus insensitive Mutants Reveals a Crosstalk between Low Phosphorus-Induced Determinate Root Development and the Activation of Genes Involved in the Adaptation of Arabidopsis to Phosphorus Deficiency. Plant Physiology, 2006, 140, 879-889.	2.3	173
35	Light regulation of plant gene expression by an upstream enhancer-like element. Nature, 1985, 318, 579-582.	13.7	172
36	Methylome analysis reveals an important role for epigenetic changes in the regulation of the <i>Arabidopsis</i> response to phosphate starvation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E7293-302.	3.3	170

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37	Functional and Transcriptome Analysis Reveals an Acclimatization Strategy for Abiotic Stress Tolerance Mediated by Arabidopsis NF-YA Family Members. PLoS ONE, 2012, 7, e48138.	1.1	162
38	Sugar and ABA responsiveness of a minimal RBCS light-responsive unit is mediated by direct binding of ABI4. Plant Journal, 2005, 43, 506-519.	2.8	157
39	Understanding the evolutionary relationships and major traits of Bacillus through comparative genomics. BMC Genomics, 2010, 11, 332.	1.2	143
40	EVOLUTION OF LIGHT-REGULATED PLANT PROMOTERS. Annual Review of Plant Biology, 1998, 49, 525-555.	14.2	142
41	The karrikin receptor KAI2 promotes drought resistance in Arabidopsis thaliana. PLoS Genetics, 2017, 13, e1007076.	1.5	140
42	Light-inducible and tissue-specific pea lhcp gene expression involves an upstream element combining enhancer- and silencer-like properties. Nature, 1986, 323, 551-554.	13.7	139
43	Activation Tagging Using the En-I Maize Transposon System in Arabidopsis. Plant Physiology, 2002, 129, 1544-1556.	2.3	138
44	The avocado genome informs deep angiosperm phylogeny, highlights introgressive hybridization, and reveals pathogen-influenced gene space adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17081-17089.	3.3	134
45	Light-inducible and tissue-specific expression of a chimaeric gene under control of the 5â€²-flanking sequence of a pea chlorophyll <i>a/b</i> -binding protein gene. EMBO Journal, 1985, 4, 2723-2729.	3.5	131
46	Transcript profiling of Zea mays roots reveals gene responses to phosphate deficiency at the plant- and species-specific levels. Journal of Experimental Botany, 2008, 59, 2479-2497.	2.4	130
47	Functional analysis of the OsNPF4.5 nitrate transporter reveals a conserved mycorrhizal pathway of nitrogen acquisition in plants. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16649-16659.	3.3	130
48	Improving transformation efficiency ofArabidopsis thaliana by modifying the floral dip method. Plant Molecular Biology Reporter, 2004, 22, 63-70.	1.0	129
49	How Plants Sense Wounds: Damaged-Self Recognition Is Based on Plant-Derived Elicitors and Induces Octadecanoid Signaling. PLoS ONE, 2012, 7, e30537.	1.1	127
50	The xipotl Mutant of Arabidopsis Reveals a Critical Role for Phospholipid Metabolism in Root System Development and Epidermal Cell Integrity. Plant Cell, 2004, 16, 2020-2034.	3.1	117
51	Engineering phosphorus metabolism in plants to produce a dual fertilization and weed control system. Nature Biotechnology, 2012, 30, 889-893.	9.4	114
52	Gene fusions to lacZ reveal new expression patterns of chimeric genes in transgenic plants.. EMBO Journal, 1989, 8, 343-350.	3.5	112
53	Phosphate Starvation-Dependent Iron Mobilization Induces CLE14 Expression to Trigger Root Meristem Differentiation through CLV2/PEPR2 Signaling. Developmental Cell, 2017, 41, 555-570.e3.	3.1	107
54	Regulatory network analysis reveals novel regulators of seed desiccation tolerance in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5232-41.	3.3	106

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55	Fate of Selectable Marker DNA Integrated into the Genome ofNicotiana tabacum. DNA and Cell Biology, 1986, 5, 101-113.	5.1	102
56	Phosphorus: The Underrated Element for Feeding the World. Trends in Plant Science, 2016, 21, 461-463.	4.3	99
57	Adaptation to Phosphate Scarcity: Tips from Arabidopsis Roots. Trends in Plant Science, 2018, 23, 721-730.	4.3	99
58	Oil biosynthesis in a basal angiosperm: transcriptome analysis of Persea Americana mesocarp. BMC Plant Biology, 2015, 15, 203.	1.6	96
59	Transcriptomic analysis of grain amaranth (Amaranthus hypochondriacus) using 454 pyrosequencing: comparison with A. tuberculatus, expression profiling in stems and in response to biotic and abiotic stress. BMC Genomics, 2011, 12, 363.	1.2	95
60	Long-read sequencing uncovers the adaptive topography of a carnivorous plant genome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4435-E4441.	3.3	95
61	The genome of <i>Bacillus coahuilensis</i> reveals adaptations essential for survival in the relic of an ancient marine environment. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5803-5808.	3.3	94
62	Functional Properties and Regulatory Complexity of a MinimalRBCS Light-Responsive Unit Activated by Phytochrome, Cryptochrome, and Plastid Signals. Plant Physiology, 2002, 128, 1223-1233.	2.3	91
63	The Yinâ€"Yang of Cytokinin Homeostasis and Drought Acclimation/Adaptation. Trends in Plant Science, 2016, 21, 548-550.	4.3	90
64	Phosphate Deprivation in Maize: Genetics and Genomics. Plant Physiology, 2011, 156, 1067-1077.	2.3	83
65	Ancestral Multipartite Units in Light-Responsive Plant Promoters Have Structural Features Correlating with Specific Phototransduction Pathways. Plant Physiology, 1996, 112, 1151-1166.	2.3	82
66	Identification of plant promoters <i>in situ</i> by T-DNA-mediated transcriptional fusions to the <i>npt</i> -II gene. EMBO Journal, 1986, 5, 1755-1760.	3.5	77
67	The Palomero Genome Suggests Metal Effects on Domestication. Science, 2009, 326, 1078-1078.	6.0	77
68	Nitric Oxide is Involved in Alkamide-Induced Lateral Root Development in Arabidopsis. Plant and Cell Physiology, 2010, 51, 1612-1626.	1.5	75
69	Inoculation of Peppers with Infectious Clones of a New Geminivirus by a Biolistic Procedure. Phytopathology, 1993, 83, 514.	1.1	71
70	Tissue-Specific and Developmental Pattern of Expression of the Rice sps1 Gene. Plant Physiology, 2000, 124, 641-654.	2.3	69
71	Deep sampling of the Palomero maize transcriptome by a high throughput strategy of pyrosequencing. BMC Genomics, 2009, 10, 299.	1.2	69
72	Deep sequencing of the Mexican avocado transcriptome, an ancient angiosperm with a high content of fatty acids. BMC Genomics, 2015, 16, 599.	1.2	69

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73	A novel genetic engineering platform for the effective management of biological contaminants for the production of microalgae. Plant Biotechnology Journal, 2016, 14, 2066-2076.	4.1	69
74	Isolation and characterization of the gene fromPseudomonas syringae pv.phaseolicola encoding the phaseolotoxin-insensitive ornithine carbamoyltransferase. Molecular Genetics and Genomics, 1990, 222, 461-466.	2.4	68
75	Alkamides Isolated from Plants Promote Growth and Alter Root Development in Arabidopsis. Plant Physiology, 2004, 134, 1058-1068.	2.3	67
76	Global expression pattern comparison between<i>low phosphorus insensitive 4</i>and WT Arabidopsis reveals an important role of reactive oxygen species and jasmonic acid in the root tip response to phosphate starvation. Plant Signaling and Behavior, 2011, 6, 382-392.	1.2	64
77	Altering Plant Architecture to Improve Performance and Resistance. Trends in Plant Science, 2020, 25, 1154-1170.	4.3	63
78	Advances in the Understanding of Aluminum Toxicity and the Development of Aluminum-Tolerant Transgenic Plants. Advances in Agronomy, 1999, 66, 103-120.	2.4	60
79	Herbicide resistant transgenic papaya plants produced by an efficient particle bombardment transformation method. Plant Cell Reports, 1995, 15, 1-7.	2.8	59
80	Translational regulation of Arabidopsis XIPOTL1 is modulated by phosphocholine levels via the phylogenetically conserved upstream open reading frame 30. Journal of Experimental Botany, 2012, 63, 5203-5221.	2.4	58
81	Transcriptomic Analysis of Avocado Hass (Persea americana Mill) in the Interaction System Fruit-Chitosan-Colletotrichum. Frontiers in Plant Science, 2017, 8, 956.	1.7	58
82	Cytokinin Receptors Are Involved in Alkamide Regulation of Root and Shoot Development in Arabidopsis. Plant Physiology, 2007, 145, 1703-1713.	2.3	57
83	Complete nucleotide sequence of pepper huasteco virus: analysis and comparison with bipartite geminiviruses. Journal of General Virology, 1993, 74, 2225-2231.	1.3	56
84	Experimental and theoretical definition of geminivirus origin of replication. Plant Molecular Biology, 1994, 26, 553-556.	2.0	56
85	The first intron of the Arabidopsis thaliana gene coding for elongation factor 1Î² contains an enhancer-like element. Gene, 1996, 170, 201-206.	1.0	55
86	Alkamides Activate Jasmonic Acid Biosynthesis and Signaling Pathways and Confer Resistance to Botrytis cinerea in Arabidopsis thaliana. PLoS ONE, 2011, 6, e27251.	1.1	55
87	Adaptation of the symbiotic <i>Mesorhizobium</i> â€"chickpea relationship to phosphate deficiency relies on reprogramming of whole-plant metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4610-9.	3.3	55
88	Sucrose-Phosphate Synthase from <i>Synechocystis</i> sp. Strain PCC 6803: Identification of the <i>spsA</i> Gene and Characterization of the Enzyme Expressed in <i>Escherichia coli</i>. Journal of Bacteriology, 1998, 180, 6776-6779.	1.0	55
89	Characterization of amaranth (Amaranthus hypochondriacus L.) seed proteins. Journal of Agricultural and Food Chemistry, 1992, 40, 1553-1558.	2.4	54
90	High Gene Family Turnover Rates and Gene Space Adaptation in the Compact Genome of the Carnivorous Plant Utricularia gibba. Molecular Biology and Evolution, 2015, 32, 1284-1295.	3.5	53

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91	Bacillus coahuilensis sp. nov., a moderately halophilic species from a desiccation lagoon in the Cuatro Cienegas Valley in Coahuila, Mexico. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 919-923.	0.8	52
92	Ripening in papaya fruit is altered by ACC oxidase cosuppression. Transgenic Research, 2009, 18, 89-97.	1.3	52
93	Identification of a Sequence Element Involved in AC2-Mediated Transactivation of the Pepper Huasteco Virus Coat Protein Gene. Virology, 1999, 253, 162-169.	1.1	50
94	Transcriptomics and molecular evolutionary rate analysis of the bladderwort (Utricularia), a carnivorous plant with a minimal genome. BMC Plant Biology, 2011, 11, 101.	1.6	50
95	A prokaryotic sucrose synthase gene (susA) isolated from a filamentous nitrogen-fixing cyanobacterium encodes a protein similar to those of plants. Planta, 2000, 211, 729-735.	1.6	48
96	Chlorophyll accumulation is enhanced by osmotic stress in graminaceous chlorophyllic cells. Journal of Plant Physiology, 2005, 162, 650-661.	1.6	48
97	Functional genomics of root growth and development in Arabidopsis. Current Opinion in Plant Biology, 2009, 12, 165-171.	3.5	48
98	Antisense expression of chaperonin 60beta in transgenic tobacco plants leads to abnormal phenotypes and altered distribution of photoassimilates. Plant Journal, 1994, 6, 425-432.	2.8	47
99	Novel signals for plant development. Current Opinion in Plant Biology, 2006, 9, 523-529.	3.5	47
100	A new highly effective anticysticercosis vaccine expressed in transgenic papaya. Vaccine, 2007, 25, 4252-4260.	1.7	46
101	Biotechnology of nutrient uptake and assimilation in plants. International Journal of Developmental Biology, 2013, 57, 595-610.	0.3	46
102	Transgenic plants for tropical regions: Some considerations about their development and their transfer to the small farmer. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5978-5981.	3.3	45
103	Light response inPhycomyces blakesleeanus: Evidence for roles of chitin biosynthesis and breakdown. Experimental Mycology, 1983, 7, 362-369.	1.8	44
104	Genetically Modified Crops and Developing Countries. Plant Physiology, 2000, 124, 923-926.	2.3	42
105	Structural relationships between diverse cis-acting elements are critical for the functional properties of a rbcS minimal light regulatory unit. Journal of Experimental Botany, 2007, 58, 4397-4406.	2.4	41
106	Transgenic Plants: An Historical Perspective. , 2005, 286, 003-032.		40
107	MEDIATOR18 influences Arabidopsis root architecture, represses auxin signaling and is a critical factor for cell viability in root meristems. Plant Journal, 2018, 96, 895-909.	2.8	39
108	Selective fertilization with phosphite allows unhindered growth of cotton plants expressing the <i>ptxD</i> gene while suppressing weeds. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6946-E6955.	3.3	39

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109	Rare earth elements lanthanum and gadolinium induce phosphate-deficiency responses in Arabidopsis thaliana seedlings. Plant and Soil, 2012, 353, 231-247.	1.8	38
110	Phosphite cannot be used as a phosphorus source but is non-toxic for microalgae. Plant Science, 2015, 231, 124-130.	1.7	38
111	Genome accessibility dynamics in response to phosphate limitation is controlled by the PHR1 family of transcription factors in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	38
112	Expression of a Bacterial Phaseolotoxinâ€"Resistant Ornithyl Transcarbamylase in Transgenic Tobacco Confers Resistance to Pseudomonas Syringae pv. Phaseolicola. Nature Biotechnology, 1992, 10, 905-909.	9.4	37
113	Functional analysis of the Arabidopsis PLDZ2 promoter reveals an evolutionarily conserved low-Pi-responsive transcriptional enhancer element. Journal of Experimental Botany, 2012, 63, 2189-2202.	2.4	36
114	The Metagenome of Utricularia gibba's Traps: Into the Microbial Input to a Carnivorous Plant. PLoS ONE, 2016, 11, e0148979.	1.1	35
115	Class I KNOX genes are associated with organogenesis during bulbil formation in Agave tequilana. Journal of Experimental Botany, 2010, 61, 4055-4067.	2.4	34
116	Comparative transcriptome analysis of nodules of two <i>Mesorhizobium</i>â€"chickpea associations with differential symbiotic efficiency under phosphate deficiency. Plant Journal, 2017, 91, 911-926.	2.8	34
117	Defective cytokinin signaling reprograms lipid and flavonoid gene-to-metabolite networks to mitigate high salinity in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	34
118	Genome-Wide Analysis of Adaptive Molecular Evolution in the Carnivorous Plant Utricularia gibba. Genome Biology and Evolution, 2015, 7, 444-456.	1.1	33
119	DNA methylation and polyamines in regulation of development of the fungus Mucor rouxii. Journal of Bacteriology, 1988, 170, 5946-5948.	1.0	32
120	Tissue-specific and wound-inducible pattern of expression of the mannopine synthase promoter is determined by the interaction between positive and negative cis-regulatory elements. Plant Journal, 1993, 4, 495-505.	2.8	32
121	Regeneration of transgenic papaya plants via somatic embryogenesis induced byAgrobacterium rhizogenes. In Vitro Cellular and Developmental Biology - Plant, 1996, 32, 86-90.	0.9	32
122	An improved, low-cost, hydroponic system for growing Arabidopsis and other plant species under aseptic conditions. BMC Plant Biology, 2014, 14, 69.	1.6	32
123	Assessment of ptxD gene as an alternative selectable marker for Agrobacterium-mediated maize transformation. Plant Cell Reports, 2016, 35, 1121-1132.	2.8	32
124	Nucleotide sequence of an osmotin-like cDNA induced in tomato during viroid infection. Plant Molecular Biology, 1992, 20, 1199-1202.	2.0	31
125	Transgenic maize plants of tropical and subtropical genotypes obtained from calluses containing organogenic and embryogenic-like structures derived from shoot tips. Plant Cell Reports, 2002, 21, 302-312.	2.8	31
126	Transcriptional landscapes of Axolotl (Ambystoma mexicanum). Developmental Biology, 2018, 433, 227-239.	0.9	31

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127	Effects of water stress on plant growth and root proteins in three cultivars of rice (Oryza sativa) with different levels of drought tolerance. Physiologia Plantarum, 1996, 96, 284-290.	2.6	30
128	Completion of the sexual cycle and demonstration of genetic recombination in Ustilago maydis in vitro. Molecular Genetics and Genomics, 1999, 262, 468-472.	2.4	30
129	Improvement of the synthetic tri-peptide vaccine (S3Pvac) against porcine Taenia solium cysticercosis in search of a more effective, inexpensive and manageable vaccine. Vaccine, 2007, 25, 1368-1378.	1.7	30
130	Do Cytokinins and Strigolactones Crosstalk during Drought Adaptation?. Trends in Plant Science, 2019, 24, 669-672.	4.3	30
131	Activation of the phenylpropanoid biosynthesis pathway reveals a novel action mechanism of the elicitor effect of chitosan on avocado fruit epicarp. Food Research International, 2019, 121, 586-592.	2.9	30
132	An efficient particle bombardment system for the genetic transformation of asparagus (Asparagus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.8	29
133	New Approaches to Improve a Peptide Vaccine Against Porcine Taenia solium Cysticercosis. Archives of Medical Research, 2002, 33, 371-378.	1.5	29
134	MEDIATOR16 orchestrates local and systemic responses to phosphate scarcity in Arabidopsis roots. New Phytologist, 2021, 229, 1278-1288.	3.5	28
135	Import of Polypeptides into Chloroplasts. Nature Biotechnology, 1985, 3, 803-808.	9.4	27
136	Transformation of four pathogenic Phytophthora spp by microprojectile bombardment on intact mycelia. Current Genetics, 1993, 23, 42-46.	0.8	27
137	Characterization of a rice sucrose-phosphate synthase-encoding gene. Gene, 1996, 170, 217-222.	1.0	27
138	Analysis of an abscisic acid (ABA)-responsive gene promoter belonging to the Asr gene family from tomato in homologous and heterologous systems. Molecular Genetics and Genomics, 1998, 258, 1-8.	2.4	27
139	APSR1, a novel gene required for meristem maintenance, is negatively regulated by low phosphate availability. Plant Science, 2013, 205-206, 2-12.	1.7	27
140	Agrobacterium-mediated transformation of Amaranthus hypochondriacus: light- and tissue-specific expression of a pea chlorophyll a/b-binding protein promoter. Plant Cell Reports, 1997, 16, 847-852.	2.8	26
141	Genetically modified crops: hope for developing countries?. EMBO Reports, 2001, 2, 256-258.	2.0	26
142	Metabolic engineering of phosphite metabolism in Synechococcus elongatus PCC 7942 as an effective measure to control biological contaminants in outdoor raceway ponds. Biotechnology for Biofuels, 2020, 13, 119.	6.2	26
143	Genetic transformation of the plant pathogens Phytophthora capsici andPhytophthora parasitica. Nucleic Acids Research, 1991, 19, 4273-4278.	6.5	25
144	Isolation and characterization of genes encoding chaperonin 60Î² from Arabidopsis thaliana. Gene, 1992, 111, 175-181.	1.0	25

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145	A novel dominant selectable system for the selection of transgenic plants under <i>in vitro</i> and greenhouse conditions based on phosphite metabolism. Plant Biotechnology Journal, 2013, 11, 516-525.	4.1	23
146	Phosphorus: Plant Strategies to Cope with its Scarcity. Plant Cell Monographs, 2010, , 173-198.	0.4	22
147	Chromate alters root system architecture and activates expression of genes involved in iron homeostasis and signaling in Arabidopsis thaliana. Plant Molecular Biology, 2014, 86, 35-50.	2.0	22
148	Biolistic transformation of Mucor circinelloides. Mycological Research, 1997, 101, 953-956.	2.5	21
149	An efficient particle bombardment system for the genetic transformation of asparagus (Asparagus) Tj ETQq1 1 0.784314 rgBT /Overloc	2.8	21
150	Agrobacterium-mediated transformation of tomatillo (Physalis ixocarpa) and tissue specific and developmental expression of the CaMV 35S promoter in transgenic tomatillo plants. Plant Cell Reports, 1992, 11, 558-62.	2.8	20
151	Genetically engineered resistance to bacterial and fungal pathogens. World Journal of Microbiology and Biotechnology, 1995, 11, 383-392.	1.7	20
152	Transgenic plants of blue grama grass, Bouteloua gracilis (H.B.K.) Lag. ex Steud., from microprojectile bombardment of highly chlorophyllous embryogenic cells. Theoretical and Applied Genetics, 2002, 104, 763-771.	1.8	20
153	Infection of alternative host plant species by Ustilago maydis. New Phytologist, 2004, 164, 337-346.	3.5	20
154	Phosphate starvation induces DNA methylation in the vicinity of cis-acting elements known to regulate the expression of phosphateâ€"responsive genes. Plant Signaling and Behavior, 2016, 11, e1173300.	1.2	20
155	Presence of chitosomes in the cytoplasm ofPhycomyces blakesleeanus and the synthesis of chitin microfibrils. Experimental Mycology, 1982, 6, 385-388.	1.8	19
156	Analysis of expressed sequence tags (ESTs) from avocado seed (PerseaÂamericana var. drymifolia) reveals abundant expression of the gene encoding the antimicrobial peptide snakin. Plant Physiology and Biochemistry, 2013, 70, 318-324.	2.8	18
157	Title is missing!. World Journal of Microbiology and Biotechnology, 1997, 13, 463-467.	1.7	17
158	De novo sequencing and analysis of Lophophora williamsii transcriptome, and searching for putative genes involved in mescaline biosynthesis. BMC Genomics, 2015, 16, 657.	1.2	17
159	Transcriptional profiling of the CAM plant Agave salmiana reveals conservation of a genetic program for regeneration. Developmental Biology, 2018, 442, 28-39.	0.9	17
160	Transcriptional and Morpho-Physiological Responses of Marchantia polymorpha upon Phosphate Starvation. International Journal of Molecular Sciences, 2020, 21, 8354.	1.8	17
161	The Use of the Ti Plasmid of Agrobacterium to Study the Transfer and Expression of Foreign DNA in Plant Cells: New Vectors and Methods. , 1984, , 253-278.		17
162	An alternative pathway for plant in vitro regeneration of chinaberry -tree Melia azedarach L. derived from the induction of somatic embryogenesis. Electronic Journal of Biotechnology, 2006, 9, 0-0.	1.2	17

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163	Lightâ€regulated gene expression. Critical Reviews in Plant Sciences, 1990, 9, 95-109.	2.7	16
164	Characterization of DNA sequences that mediate nuclear protein binding to the regulatory region of the Pisum sativum (pea) chlorophyl a/b binding protein gene AB80: identification of a repeated heptamer motif.. Plant Journal, 1992, 2, 301-309.	2.8	16
165	Effects of water stress on plant growth and root proteins in three cultivars of rice (Oryza sativa) with different levels of drought tolerance. Physiologia Plantarum, 1996, 96, 284-290.	2.6	16
166	The mannopine synthase promoter contains vectorial cis-regulatory elements that act as enhancers and silencers. Molecular Genetics and Genomics, 1999, 262, 608-617.	2.4	16
167	Engineering food crops to grow in harsh environments. F1000Research, 2015, 4, 651.	0.8	16
168	Mass spectrometryâ€based quantification and spatial localization of small organic acid exudates in plant roots under phosphorus deficiency and aluminum toxicity. Plant Journal, 2021, 106, 1791-1806.	2.8	16
169	Functional analysis of the promoter of the rice sucrose phosphate synthase gene (sps1). Plant Science, 2004, 166, 131-140.	1.7	15
170	ptxD gene in combination with phosphite serves as a highly effective selection system to generate transgenic cotton (Gossypium hirsutum L.). Plant Molecular Biology, 2017, 95, 567-577.	2.0	15
171	The transit peptide of a chlorophyll protein is not sufficient to insert neomycin phosphotransferase II in the thylakoid membrane. Plant Science, 1988, 58, 171-176.	1.7	14
172	Establishment, characterization and plant regeneration from highly chlorophyllous embryogenic cell cultures of blue grama grass, Bouteloua gracilis (H.B.K.) Lag. ex Steud.. Plant Cell Reports, 2001, 20, 131-136.	2.8	14
173	Expression of one of the members of the Arabidopsis chaperonin 60? gene family is developmentally regulated and wound-repressible. Plant Molecular Biology, 1994, 24, 195-202.	2.0	13
174	Is GC bias in the nuclear genome of the carnivorous plant UtriculariaÂdriven by ROS-based mutation and biased gene conversion?. Plant Signaling and Behavior, 2011, 6, 1631-1634.	1.2	13
175	Mutation of <i><scp>MEDIATOR</scp> 18</i> and chromate trigger twinning of the primary root meristem in <i>Arabidopsis</i>. Plant, Cell and Environment, 2020, 43, 1989-1999.	2.8	13
176	A Phosphite Dehydrogenase Variant with Promiscuous Access to Nicotinamide Cofactor Pools Sustains Fast Phosphite-Dependent Growth of Transplastomic Chlamydomonas reinhardtii. Plants, 2020, 9, 473.	1.6	13
177	Conquering compacted soils: uncovering the molecular components of root soil penetration. Trends in Plant Science, 2022, 27, 814-827.	4.3	13
178	Cloning of a <i>Nicotiana plumbaginifolia</i> protoplast-specific enhancer-like sequence. EMBO Journal, 1987, 6, 2525-2530.	3.5	12
179	Agriculture for Marginal Lands: Transgenic Plants Towards the Third Millennium. Developments in Plant Genetics and Breeding, 2000, 5, 159-165.	0.6	12
180	Transgenic Plants in Modern Agriculture. Journal of New Seeds, 2002, 4, 1-23.	0.3	12

#	Article	IF	Citations
181	Comparative transcriptome analysis suggests convergent evolution of desiccation tolerance in Selaginella species. BMC Plant Biology, 2020, 20, 468.	1.6	12
182	Dissection of Root Transcriptional Responses to Low pH, Aluminum Toxicity and Iron Excess Under Pi-Limiting Conditions in Arabidopsis Wild-Type and stop1 Seedlings. Frontiers in Plant Science, 2020, 11, 01200.	1.7	12
183	Agrobacterium tumefaciens mediated transformation of the aquatic carnivorous plant Utricularia gibba. Plant Methods, 2020, 16, 50.	1.9	12
184	A 42 bp fragment of the pmas1' promoter containing an ocs-like element confers a developmental, wound- and chemically inducible expression pattern. Plant Molecular Biology, 1998, 38, 743-753.	2.0	11
185	Insights into bear evolution from a Pleistocene polar bear genome. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11
186	Influence of Environmental Factors on Photosynthetic Genes. Advances in Genetics, 1990, 28, 133-163.	0.8	10
187	Plant biotechnology. Current Opinion in Plant Biology, 2006, 9, 177-179.	3.5	10
188	Transgenic Paulownia elongata S. Y. Hu plants using biolistic-mediated transformation. Plant Cell, Tissue and Organ Culture, 2009, 99, 175-181.	1.2	10
189	Cancer Reduces Transcriptome Specialization. PLoS ONE, 2010, 5, e10398.	1.1	10
190	A phosphate starvationâ€driven bidirectional promoter as a potential tool for crop improvement and <i>inÂvitro</i> plant biotechnology. Plant Biotechnology Journal, 2017, 15, 558-567.	4.1	10
191	A microalgalâ€based preparation with synergistic cellulolytic and detoxifying action towards chemicalâ€treated lignocellulose. Plant Biotechnology Journal, 2021, 19, 124-137.	4.1	10
192	Tissue culture and plant regeneration of blue grama grass, Bouteloua gracilis (H.B.K.) Lag. Ex Steud. In Vitro Cellular and Developmental Biology - Plant, 2001, 37, 182-189.	0.9	9
193	A specific variant of the PHR1 binding site is highly enriched in the Arabidopsis phosphate-responsive phospholipase DZ2 coexpression network. Plant Signaling and Behavior, 2012, 7, 914-917.	1.2	9
194	Maize Under Phosphate Limitation. , 2009, , 381-404.		9
195	Improvement of rice transformation using bombardment of scutellum-derived calli. Plant Molecular Biology Reporter, 2003, 21, 429-437.	1.0	8
196	Adaptive Responses in Plants to Nonoptimal Soil pH. , 0, , 145-170.		8
197	Transient transgenesis of the tapeworm Taenia crassiceps. SpringerPlus, 2015, 4, 496.	1.2	8
198	Assessment of the ptxD gene as a growth and selective marker in Trichoderma atroviride using Pccg6, a novel constitutive promoter. Microbial Cell Factories, 2020, 19, 69.	1.9	8

#	Article	IF	Citations
199	Genetic Transformation of Garlic (Allium sativum L.) by Particle Bombardment. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 1208-1211.	0.5	8
200	A comparative genomics examination of desiccation tolerance and sensitivity in two sister grass species. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	8
201	First Draft Genome Sequence of a Strain from the Genus Citricoccus. Journal of Bacteriology, 2011, 193, 6092-6093.	1.0	7
202	Carnivorous plant genomes. , 2018, , .		7
203	Exploring the High Variability of Vegetative Desiccation Tolerance in Pteridophytes. Plants, 2022, 11, 1222.	1.6	7
204	Development and Cell Cycle Activity of the Root Apical Meristem in the Fern Ceratopteris richardii. Genes, 2020, 11, 1455.	1.0	6
205	A chimeric hydrolase-PTXD transgene enables chloroplast-based heterologous protein expression and non-sterile cultivation of Chlamydomonas reinhardtii. Algal Research, 2021, 59, 102429.	2.4	6
206	Plant scientists: GM technology is safe. Science, 2016, 351, 824-824.	6.0	5
207	My journey into the birth of plant transgenesis and its impact on modern plant biology. Plant Biotechnology Journal, 2020, 18, 1487-1491.	4.1	5
208	Atypical DNA methylation, sRNA-size distribution, and female gametogenesis in Utricularia gibba. Scientific Reports, 2021, 11, 15725.	1.6	5
209	Transfer and Regulation of Expression of Chimeric Genes in Plants. Cold Spring Harbor Symposia on Quantitative Biology, 1985, 50, 421-431.	2.0	4
210	Genetic Determinants of Phosphate Use Efficiency in Crops. , 0, , 143-165.		4
211	Transcriptome (ESTs) of native Mexican avocado fruit is dominated by stress and innate immunity genes. Acta Horticulturae, 2016, , 43-48.	0.1	4
212	Legislative environment and others factors that inhibit transfer of Mexican publicly funded research into commercial ventures. Technology in Society, 2016, 46, 100-108.	4.8	4
213	Use of reporter genes to study gene expression in plant cells. , 1989, , 209-230.		4
214	Characterization of DNA sequences that mediate nuclear protein binding to the regulatory region of the Pisum sativum (pea) chlorophyl a/b binding protein gene AB80: identification of a repeated heptamer motif. Plant Journal, 1992, 2, 301-309.	2.8	4
215	Functional analysis of the 5â€² untranslated region of the sucrose phosphate synthase rice gene (sps1). Plant Science, 2003, 165, 9-20.	1.7	3
216	Effect of Nutrient Availability on Root System Development. , 0, , 288-324.		3

#	Article	IF	Citations
217	MOLECULAR ANALYSIS OF MARIGOLD (TAGETES ERECTA) APETALA2 IN FLOWER DEVELOPMENT. Acta Horticulturae, 2012, , 293-298.	0.1	3
218	Editorial: Plant Transformation. Frontiers in Plant Science, 2022, 13, 876671.	1.7	3
219	All Set before Flowering: A 16S Gene Amplicon-Based Analysis of the Root Microbiome Recruited by Common Bean (Phaseolus vulgaris) in Its Centre of Domestication. Plants, 2022, 11, 1631.	1.6	3
220	Characterization of Amaranthus hypochondriacus Light-Harvesting Chlorophyll a/b-Binding Polypeptide cDNAs. Plant Physiology, 1994, 105, 459-460.	2.3	2
221	Methods for Plant Genetic Transformation. , 1998, , 67-82.		2
222	Environmentally benign glycosylation of aryl pyranosides and aryl/alkyl furanosides demonstrating the versatility of thermostable CGTase from Thermoanaerobacterium sp.. Green Chemistry, 2014, 16, 3803-3809.	4.6	2
223	Engineering Enhanced Nutrient Uptake in Transgenic Plants. , 2003, , 179-182.		2
224	Viability markers for determination of desiccation tolerance and critical stages during dehydration in <i>Selaginella</i> species. Journal of Experimental Botany, 2022, 73, 3898-3912.	2.4	2
225	<i>ROOT PENETRATION INDEX 3</i>, a major quantitative trait locus associated with root system penetrability in Arabidopsis. Journal of Experimental Botany, 2022, 73, 4716-4732.	2.4	2
226	Sensing and Signaling of PO 4 3â˘. Signaling and Communication in Plants, 2011, , 191-224.	0.5	1
227	Communication of the international GMO workshop. Science Bulletin, 2015, 60, 283-285.	4.3	1
228	Genomics of Bacteria from an Ancient Marine Origin: Clues to Survival in an Oligotrophic Environment. , 0, , .		1
229	Transgenic Plants for Disease Control. , 1997, , 33-80.		1
230	Phosphate Starvation Triggers Transcriptional Changes in the Biosynthesis and Signaling Pathways of Phytohormones in Marchantia polymorphaÂ. Biology and Life Sciences Forum, 2021, 4, 89.	0.6	1
231	Engineering Aluminum-Tolerance and Enhanced Nutrient Uptake in Transgenic Plants. Nature Biotechnology, 1999, 17, 35-35.	9.4	0
232	miRNAs analysis during prickly pear development. Acta Horticulturae, 2016, , 99-104.	0.1	0
233	Gene Expression and Physiological Responses in Mexican Maize Landraces under Drought Stress and Recovery Irrigation. , 2011, , 74-103.		0
234	Chemical Composition and Antibacterial Activity of Essential Oils Extracted from Plants Cultivated in Mexico. Journal of the Mexican Chemical Society, 2017, 58, .	0.2	0

#	Article	IF	Citations
235	Conservation of cis-regulatory elements in maize Dof01 promoter: a key regulator of the cold stress response. Mexican Journal of Biotechnology, 2020, 5, 135-161.	0.2	0