

Miguel Ángel Botella

List of Publications by Year in descending order

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96
papers

10,695
citations

38742

50
h-index

39675

94
g-index

105
all docs

105
docs citations

105
times ranked

12267
citing authors

#	ARTICLE	IF	CITATIONS
1	A glossary of plant cell structures: Current insights and future questions. <i>Plant Cell</i> , 2022, 34, 10-52.	6.6	27
2	The role of GDP-galactose phosphorylase in the control of ascorbate biosynthesis. <i>Plant Physiology</i> , 2021, 185, 1574-1594.	4.8	39
3	The Arabidopsis TETRATRIPEPTIDE THIOREDOXIN-LIKE 1 Gene Is Involved in Anisotropic Root Growth during Osmotic Stress Adaptation. <i>Genes</i> , 2021, 12, 236.	2.4	8
4	The NAC transcription factor FaRIF controls fruit ripening in strawberry. <i>Plant Cell</i> , 2021, 33, 1574-1593.	6.6	95
5	Synaptotagmins at the endoplasmic reticulum-plasma membrane contact sites maintain diacylglycerol homeostasis during abiotic stress. <i>Plant Cell</i> , 2021, 33, 2431-2453.	6.6	41
6	The structure and flexibility analysis of the <i>Arabidopsis</i> synaptotagmin 1 reveal the basis of its regulation at membrane contact sites. <i>Life Science Alliance</i> , 2021, 4, e202101152.	2.8	9
7	Autophagy Is Required for Strawberry Fruit Ripening. <i>Frontiers in Plant Science</i> , 2021, 12, 688481.	3.6	9
8	Wheat Type One Protein Phosphatase Participates in the Brassinosteroid Control of Root Growth via Activation of BES1. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10424.	4.1	8
9	Characterizing the involvement of <i>FaMADS9</i> in the regulation of strawberry fruit receptacle development. <i>Plant Biotechnology Journal</i> , 2020, 18, 929-943.	8.3	25
10	Rare earth elements induce cytoskeleton-dependent and PI4P-associated rearrangement of SYT1/SYT5 endoplasmic reticulum-plasma membrane contact site complexes in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2020, 71, 3986-3998.	4.8	34
11	Molecular Characterization of ZosmaNRT2, the Putative Sodium Dependent High-Affinity Nitrate Transporter of <i>Zostera marina</i> L.. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3650.	4.1	5
12	TTL Proteins Scaffold Brassinosteroid Signaling Components at the Plasma Membrane to Optimize Signal Transduction in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2019, 31, 1807-1828.	6.6	47
13	Ionic stress enhances ER-PM connectivity via phosphoinositide-associated SYT1 contact site expansion in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1420-1429.	7.1	95
14	Expression of tomato prosystemin gene in <i>Arabidopsis</i> reveals systemic translocation of its mRNA and confers necrotrophic fungal resistance. <i>New Phytologist</i> , 2018, 217, 799-812.	7.3	39
15	Vitamin C Content in Fruits: Biosynthesis and Regulation. <i>Frontiers in Plant Science</i> , 2018, 9, 2006.	3.6	183
16	Gene expression atlas of fruit ripening and transcriptome assembly from RNA-seq data in octoploid strawberry (<i>Fragaria</i> - <i>Ananassa</i>). <i>Scientific Reports</i> , 2017, 7, 13737.	3.3	95
17	Spectral phasor analysis reveals altered membrane order and function of root hair cells in <i>Arabidopsis dry2/sqe1-5</i> drought hypersensitive mutant. <i>Plant Physiology and Biochemistry</i> , 2017, 119, 224-231.	5.8	18
18	<i>Arabidopsis</i> NahG Plants as a Suitable and Efficient System for Transient Expression using <i>Agrobacterium tumefaciens</i> . <i>Molecular Plant</i> , 2017, 10, 353-356.	8.3	26

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19	Transcriptomic Analysis in Strawberry Fruits Reveals Active Auxin Biosynthesis and Signaling in the Ripe Receptacle. <i>Frontiers in Plant Science</i> , 2017, 8, 889.	3.6	55
20	Synaptotagmin 1 Negatively Controls the Two Distinct Immune Secretory Pathways to Powdery Mildew Fungi in Arabidopsis. <i>Plant and Cell Physiology</i> , 2016, 57, 1133-1141.	3.1	39
21	Stitching Organelles: Organization and Function of Specialized Membrane Contact Sites in Plants. <i>Trends in Cell Biology</i> , 2016, 26, 705-717.	7.9	122
22	SUMO proteases ULP1c and ULP1d are required for development and osmotic stress responses in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2016, 92, 143-159.	3.9	39
23	Analysis of Protein-Lipid Interactions Using Purified C2 Domains. <i>Methods in Molecular Biology</i> , 2016, 1363, 175-187.	0.9	7
24	Plant Signal Transduction. <i>Methods in Molecular Biology</i> , 2016, 1363, vii-x.	0.9	2
25	Central role of <i>FaGAMYB</i> in the transition of the strawberry receptacle from development to ripening. <i>New Phytologist</i> , 2015, 208, 482-496.	7.3	62
26	Diversity Arrays Technology (DART) Marker Platforms for Diversity Analysis and Linkage Mapping in a Complex Crop, the Octoploid Cultivated Strawberry (<i>Fragaria</i> × <i>ananassa</i>). <i>PLoS ONE</i> , 2015, 10, e0144960.	2.5	88
27	Arabidopsis Squalene Epoxidase 3 (SQE3) Complements SQE1 and Is Important for Embryo Development and Bulk Squalene Epoxidase Activity. <i>Molecular Plant</i> , 2015, 8, 1090-1102.	8.3	59
28	The Arabidopsis Synaptotagmin1 Is Enriched in Endoplasmic Reticulum-Plasma Membrane Contact Sites and Confers Cellular Resistance to Mechanical Stresses. <i>Plant Physiology</i> , 2015, 168, 132-143.	4.8	150
29	Wide-genome QTL mapping of fruit quality traits in a tomato RIL population derived from the wild-relative species <i>Solanum pimpinellifolium</i> L.. <i>Theoretical and Applied Genetics</i> , 2015, 128, 2019-2035.	3.6	63
30	Increased antioxidant capacity in tomato by ectopic expression of the strawberry <i>D-galacturonate reductase</i> gene. <i>Biotechnology Journal</i> , 2015, 10, 490-500.	3.5	26
31	Clathrin and Membrane Microdomains Cooperatively Regulate RbohD Dynamics and Activity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 1729-1745.	6.6	182
32	Deciphering gamma-decalactone biosynthesis in strawberry fruit using a combination of genetic mapping, RNA-Seq and eQTL analyses. <i>BMC Genomics</i> , 2014, 15, 218.	2.8	74
33	Dynamic analysis of <i>Arabidopsis</i> AP2 β subunit reveals a key role in clathrin-mediated endocytosis and plant development. <i>Development (Cambridge)</i> , 2013, 140, 3826-3837.	2.5	139
34	The <i>SUD1</i> Gene Encodes a Putative E3 Ubiquitin Ligase and Is a Positive Regulator of 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Activity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 728-743.	6.6	78
35	Proteomic analysis of strawberry achenes reveals active synthesis and recycling of l-ascorbic acid. <i>Journal of Proteomics</i> , 2013, 83, 160-179.	2.4	22
36	Ethylene is involved in strawberry fruit ripening in an organ-specific manner. <i>Journal of Experimental Botany</i> , 2013, 64, 4421-4439.	4.8	111

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37	Eugenol Production in Achenes and Receptacles of Strawberry Fruits Is Catalyzed by Synthases Exhibiting Distinct Kinetics. <i>Plant Physiology</i> , 2013, 163, 946-958.	4.8	46
38	The Strawberry Pathogenesis-related 10 (PR-10) Fra a Proteins Control Flavonoid Biosynthesis by Binding to Metabolic Intermediates. <i>Journal of Biological Chemistry</i> , 2013, 288, 35322-35332.	3.4	77
39	Dynamic analysis of Arabidopsis AP2 Ïf subunit reveals a key role in clathrin-mediated endocytosis and plant development. <i>Journal of Cell Science</i> , 2013, 126, e1-e1.	2.0	0
40	The Arabidopsis TETRATRICOPEPTIDE THIOREDOXIN-LIKE Gene Family Is Required for Osmotic Stress Tolerance and Male Sporogenesis. <i>Plant Physiology</i> , 2012, 158, 1252-1266.	4.8	49
41	Genetic Analysis of Strawberry Fruit Aroma and Identification of FaOMT as the Locus Controlling Natural Variation in Methyltransferase FaOMT as the Locus Controlling Natural Variation in Methyltransferase. <i>Plant Physiology</i> , 2012, 159, 851-870.	4.8	132
42	Two strawberry miR159 family members display developmental-specific expression patterns in the fruit receptacle and cooperatively regulate FaGAMYB. <i>New Phytologist</i> , 2012, 195, 47-57.	7.3	55
43	Genetic and genome-wide transcriptomic analyses identify co-regulation of oxidative response and hormone transcript abundance with vitamin C content in tomato fruit. <i>BMC Genomics</i> , 2012, 13, 187.	2.8	33
44	The tomato genome sequence provides insights into fleshy fruit evolution. <i>Nature</i> , 2012, 485, 635-641.	27.8	2,860
45	Polyphenol Composition in the Ripe Fruits of <i>Fragaria</i> Species and Transcriptional Analyses of Key Genes in the Pathway. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 12598-12604.	5.2	46
46	A Strategy for the Identification of New Abiotic Stress Determinants in Arabidopsis Using Web-Based Data Mining and Reverse Genetics. <i>OMICS A Journal of Integrative Biology</i> , 2011, 15, 935-947.	2.0	6
47	Golgi Apparatus-Localized Synaptotagmin 2 Is Required for Unconventional Secretion in Arabidopsis. <i>PLoS ONE</i> , 2011, 6, e26477.	2.5	51
48	Gibberellin biosynthesis and signalling during development of the strawberry receptacle. <i>New Phytologist</i> , 2011, 191, 376-390.	7.3	110
49	Development and bin mapping of strawberry genic-SSRs in diploid <i>Fragaria</i> and their transferability across the Rosoideae subfamily. <i>Molecular Breeding</i> , 2011, 27, 137-156.	2.1	42
50	Demethylation of oligogalacturonides by FaPE1 in the fruits of the wild strawberry <i>Fragaria vesca</i> triggers metabolic and transcriptional changes associated with defence and development of the fruit. <i>Journal of Experimental Botany</i> , 2011, 62, 2855-2873.	4.8	55
51	Regulation of L-ascorbic acid content in strawberry fruits. <i>Journal of Experimental Botany</i> , 2011, 62, 4191-4201.	4.8	153
52	Generation and analysis of ESTs from strawberry (<i>Fragaria xananassa</i>) fruits and evaluation of their utility in genetic and molecular studies. <i>BMC Genomics</i> , 2010, 11, 503.	2.8	75
53	The Strawberry Fruit Fra a Allergen Functions in Flavonoid Biosynthesis. <i>Molecular Plant</i> , 2010, 3, 113-124.	8.3	94
54	Analysis of genes involved in l-ascorbic acid biosynthesis during growth and ripening of grape berries. <i>Journal of Plant Physiology</i> , 2010, 167, 739-748.	3.5	84

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55	A Snapshot of the Emerging Tomato Genome Sequence. <i>Plant Genome</i> , 2009, 2, .	2.8	73
56	Analysis of the Arabidopsis <i>dry2/sqe1-5</i> mutant suggests a role for sterols in signaling. <i>Plant Signaling and Behavior</i> , 2009, 4, 873-874.	2.4	5
57	<i>Arabidopsis</i> Synaptotagmin 1 Is Required for the Maintenance of Plasma Membrane Integrity and Cell Viability. <i>Plant Cell</i> , 2009, 20, 3374-3388.	6.6	206
58	Identification of the Arabidopsis <i>dry2/sqe1-5</i> mutant reveals a central role for sterols in drought tolerance and regulation of reactive oxygen species. <i>Plant Journal</i> , 2009, 59, 63-76.	5.7	114
59	Plasma membrane repair in plants. <i>Trends in Plant Science</i> , 2009, 14, 645-652.	8.8	65
60	Impact of Plant Breeding on the Genetic Diversity of Cultivated Strawberry as Revealed by Expressed Sequence Tag-derived Simple Sequence Repeat Markers. <i>Journal of the American Society for Horticultural Science</i> , 2009, 134, 337-347.	1.0	47
61	Partial demethylation of oligogalacturonides by pectin methyl esterase 1 is required for eliciting defence responses in wild strawberry (<i>Fragaria vesca</i>). <i>Plant Journal</i> , 2008, 54, 43-55.	5.7	134
62	EST-derived polymorphic microsatellites from cultivated strawberry (<i>Fragaria ananassa</i>) are useful for diversity studies and varietal identification among <i>Fragaria</i> species. <i>Molecular Ecology Notes</i> , 2006, 6, 1195-1197.	1.7	45
63	TPR Proteins in Plant Hormone Signaling. <i>Plant Signaling and Behavior</i> , 2006, 1, 229-230.	2.4	64
64	ABA- and ethylene-mediated responses in osmotically stressed tomato are regulated by the TSS2 and TOS1 loci. <i>Journal of Experimental Botany</i> , 2006, 57, 3327-3335.	4.8	22
65	The Arabidopsis Tetratricopeptide Repeat-Containing Protein TTL1 Is Required for Osmotic Stress Responses and Abscisic Acid Sensitivity. <i>Plant Physiology</i> , 2006, 142, 1113-1126.	4.8	97
66	The strawberry gene FaGAST affects plant growth through inhibition of cell elongation. <i>Journal of Experimental Botany</i> , 2006, 57, 2401-2411.	4.8	83
67	Molecular analysis of the interaction between <i>Olea europaea</i> and the biotrophic fungus <i>Spilocaea oleagina</i> . <i>Molecular Plant Pathology</i> , 2005, 6, 425-438.	4.2	34
68	The Tomato Sequencing Project, the First Cornerstone of the International Solanaceae Project (SOL). <i>Comparative and Functional Genomics</i> , 2005, 6, 153-158.	2.0	122
69	Endogenous jasmonates and octadecanoids in hypersensitive tomato mutants during germination and seedling development in response to abiotic stress. <i>Seed Science Research</i> , 2005, 15, 309-318.	1.7	18
70	Functional analysis of homologous and heterologous promoters in strawberry fruits using transient expression. <i>Journal of Experimental Botany</i> , 2004, 56, 37-46.	4.8	65
71	Pectin esterase gene family in strawberry fruit: study of FaPE1, a ripening-specific isoform. <i>Journal of Experimental Botany</i> , 2004, 55, 909-918.	4.8	127
72	Regulation of K ⁺ Transport in Tomato Roots by the TSS1 Locus. Implications in Salt Tolerance. <i>Plant Physiology</i> , 2004, 134, 452-459.	4.8	12

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73	Biosynthesis of L-ascorbic acid in plants: new pathways for an old antioxidant. <i>Trends in Plant Science</i> , 2004, 9, 573-577.	8.8	269
74	Developing salt tolerant plants in a new century: a molecular biology approach. <i>Plant Cell, Tissue and Organ Culture</i> , 2003, 73, 101-115.	2.3	122
75	Engineering increased vitamin C levels in plants by overexpression of a D-galacturonic acid reductase. <i>Nature Biotechnology</i> , 2003, 21, 177-181.	17.5	532
76	Phylogeny of the fungus <i>Spilocaea oleagina</i> , the causal agent of peacock leaf spot in olive. <i>FEMS Microbiology Letters</i> , 2002, 210, 149-155.	1.8	2
77	Tomato <i>tos1</i> mutation identifies a gene essential for osmotic tolerance and abscisic acid sensitivity. <i>Plant Journal</i> , 2002, 32, 905-914.	5.7	33
78	Phylogeny of the fungus <i>Spilocaea oleagina</i> , the causal agent of peacock leaf spot in olive. <i>FEMS Microbiology Letters</i> , 2002, 210, 149-155.	1.8	20
79	Evidence for a Role of Salicylic Acid in the Oxidative Damage Generated by NaCl and Osmotic Stress in <i>Arabidopsis</i> Seedlings. <i>Plant Physiology</i> , 2001, 126, 1024-1030.	4.8	676
80	Identification of Two Loci in Tomato Reveals Distinct Mechanisms for Salt Tolerance. <i>Plant Cell</i> , 2001, 13, 873-887.	6.6	67
81	Unravelling R gene-mediated disease resistance pathways in <i>Arabidopsis</i> . <i>Molecular Plant Pathology</i> , 2000, 1, 17-24.	4.2	35
82	A Tomato Peroxidase Involved in the Synthesis of Lignin and Suberin. <i>Plant Physiology</i> , 2000, 122, 1119-1128.	4.8	398
83	Expression of the tomato peroxidase gene <i>TPX1</i> in NaCl-adapted and unadapted suspension cells. <i>Plant Cell Reports</i> , 1999, 18, 680-683.	5.6	11
84	Improved germination under osmotic stress of tobacco plants overexpressing a cell wall peroxidase. <i>FEBS Letters</i> , 1999, 457, 80-84.	2.8	95
85	Three Genes of the <i>Arabidopsis</i> RPP1 Complex Resistance Locus Recognize Distinct <i>Peronospora parasitica</i> Avirulence Determinants. <i>Plant Cell</i> , 1998, 10, 1847-1860.	6.6	351
86	Expression of a highly basic peroxidase gene in NaCl-adapted tomato cell suspensions. <i>FEBS Letters</i> , 1997, 407, 357-360.	2.8	11
87	Map positions of 47 <i>Arabidopsis</i> sequences with sequence similarity to disease resistance genes. <i>Plant Journal</i> , 1997, 12, 1197-1211.	5.7	102
88	Two Wound-Inducible Soybean Cysteine Proteinase Inhibitors Have Greater Insect Digestive Proteinase Inhibitory Activities than a Constitutive Homolog. <i>Plant Physiology</i> , 1996, 111, 1299-1306.	4.8	139
89	Differential Expression of Soybean Cysteine Proteinase Inhibitor Genes during Development and in Response to Wounding and Methyl Jasmonate. <i>Plant Physiology</i> , 1996, 112, 1201-1210.	4.8	145
90	Characterization and in situ localization of a salt-induced tomato peroxidase mRNA. <i>Plant Molecular Biology</i> , 1994, 25, 105-114.	3.9	64

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91	Growth cycle stage-dependent NaCl induction of plasma membrane H ⁺ -ATPase mRNA accumulation in de-adapted tobacco cells. <i>Plant, Cell and Environment</i> , 1994, 17, 327-333.	5.7	34
92	Induction of a tomato peroxidase gene in vascular tissue. <i>FEBS Letters</i> , 1994, 347, 195-198.	2.8	22
93	348 SENESCENCE OF DAYLILY (HEMEROCALLIS) IS ASSOCIATED WITH EXPRESSION OF A MADS-BOX GENE. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1994, 29, 480e-480.	1.0	0
94	Nucleotide Sequences of Two Peroxidase Genes from Tomato (<i>Lycopersicon esculentum</i>). <i>Plant Physiology</i> , 1993, 103, 665-666.	4.8	20
95	Induction of a Putative Ca ²⁺ -ATPase mRNA in NaCl-Adapted Cells. <i>Plant Physiology</i> , 1992, 100, 1471-1478.	4.8	87
96	TTL Proteins Scaffold Brassinosteroid Signaling Components at the Plasma Membrane to Optimize Signal Transduction in Plant Cells. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0