Autar K Mattoo

List of Publications by Year
in descending order

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155 papers	6,624 citations	61857 43 h-index	74018 75 g-index
172 all docs	172 docs citations	172 times ranked	5290 citing authors

#	Article	IF	Citations
1	Engineered polyamine accumulation in tomato enhances phytonutrient content, juice quality, and vine life. Nature Biotechnology, 2002, 20, 613-618.	9.4	352
2	Dynamics of the photosystem II reaction center. Cell, 1989, 56, 241-246.	13.5	316
3	Target of Rapamycin Signaling Regulates Metabolism, Growth, and Life Span in Arabidopsis Â Â. Plant Cell, 2013, 24, 4850-4874.	3.1	235
4	Polyamines Inhibit Biosynthesis of Ethylene in Higher Plant Tissue and Fruit Protoplasts. Plant Physiology, 1981, 68, 453-456.	2.3	217
5	D1-protein dynamics in photosystem II: the lingering enigma. Photosynthesis Research, 2008, 98, 609-620.	1.6	187
6	Polyamines: Bio-Molecules with Diverse Functions in Plant and Human Health and Disease. Frontiers in Chemistry, 2018, 6, 10.	1.8	183
7	Inhibition of Ethylene Biosynthesis by Aminoethoxyvinylglycine and by Polyamines Shunts Label from 3,4-[¹⁴C]Methionine into Spermidine in Aged Orange Peel Discs. Plant Physiology, 1982, 69, 385-388.	2.3	172
8	Accumulation of wound-inducible ACC synthase transcript in tomato fruit is inhibited by salicylic acid and polyamines. Plant Molecular Biology, 1992, 18, 477-487.	2.0	171
9	Polyamines and cellular metabolism in plants: transgenic approaches reveal different responses to diamine putrescine versus higher polyamines spermidine and spermine. Amino Acids, 2010, 38, 405-413.	1.2	142
10	Ultraviolet-B Radiation Impacts Light-Mediated Turnover of the Photosystem II Reaction Center Heterodimer in Arabidopsis Mutants Altered in Phenolic Metabolism. Plant Physiology, 2000, 124, 1275-1284.	2.3	141
11	Nuclear Magnetic Resonance Spectroscopy-Based Metabolite Profiling of Transgenic Tomato Fruit Engineered to Accumulate Spermidine and Spermine Reveals Enhanced Anabolic and Nitrogen-Carbon Interactions. Plant Physiology, 2006, 142, 1759-1770.	2.3	141
12	The mRNA for an ETR1 homologue in tomato is constitutively expressed in vegetative and reproductive tissues. Plant Molecular Biology, 1996, 30, 1331-1338.	2.0	132
13	Differential and functional interactions emphasize the multiple roles of polyamines in plants. Plant Physiology and Biochemistry, 2010, 48, 540-546.	2.8	126
14	Ethylene â€" Biosynthesis and perception. Critical Reviews in Plant Sciences, 1996, 15, 479-523.	2.7	125
15	Overexpression of yeast spermidine synthase impacts ripening, senescence and decay symptoms in tomato. Plant Journal, 2010, 63, 836-847.	2.8	120
16	Sâ€nitrosylated proteins of a medicinal CAM plant Kalanchoeâ€ƒpinnataâ€" ribuloseâ€1,5â€bisphosphate carboxylase/oxygenase activity targeted for inhibition. FEBS Journal, 2008, 275, 2862-2872.	2.2	118
17	Polyamines Attenuate Ethylene-Mediated Defense Responses to Abrogate Resistance to Botrytis cinerea in Tomato Â Â Â. Plant Physiology, 2012, 158, 1034-1045.	2.3	111
18	Low threshold levels of ultraviolet-B in a background of photosynthetically active radiation trigger rapid degradation of the D2 protein of photosystem-II. Plant Journal, 1996, 9, 693-699.	2.8	107

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19	A biosensor for the detection of triazine and phenylurea herbicides designed using Photosystem II coupled to a screen-printed electrode. Biotechnology and Bioengineering, 2002, 78, 110-116.	1.7	105
20	Processing of a Chloroplast-Translated Membrane Protein in vivo. Analysis of the Rapidly Synthesized 32000-dalton Shield Protein and Its Precursor in Spivodefa oligorrhiza. FEBS Journal, 1982, 124, 125-129.	0.2	95
21	Multitasking antimicrobial peptides in plant development and host defense against biotic/abiotic stress. Plant Science, 2014, 228, 135-149.	1.7	95
22	Higher polyamines restore and enhance metabolic memory in ripening fruit. Plant Science, 2008, 174, 386-393.	1.7	84
23	Localization of the Ethylene-synthesizing System in Apple Tissue. Plant Physiology, 1977, 60, 794-799.	2.3	79
24	A sensitive photosystem II-based biosensor for detection of a class of herbicides. Biotechnology and Bioengineering, 1998, 60, 664-669.	1.7	77
25	Temperature-dependent inhibitory effects of calcium and spermine on ethylene biosynthesis in apple discs correlate with changes in microsomal membrane microviscosity. Plant Science Letters, 1982, 24, 239-247.	1.9	76
26	Sustainable Agricultureâ€"Enhancing Environmental Benefits, Food Nutritional Quality and Building Crop Resilience to Abiotic and Biotic Stresses. Agriculture (Switzerland), 2018, 8, 8.	1.4	72
27	D1-D2 protein degradation in the chloroplast. FEBS Journal, 2001, 260, 527-532.	0.2	70
28	Delayed Abscission and Shorter Internodes Correlate with a Reduction in the Ethylene Receptor LeETR1 Transcript in Transgenic Tomato. Plant Physiology, 2002, 128, 978-987.	2.3	68
29	Pathogenesis-Related Protein 1b1 (PR1b1) Is a Major Tomato Fruit Protein Responsive to Chilling Temperature and Upregulated in High Polyamine Transgenic Genotypes. Frontiers in Plant Science, 2016, 7, 901.	1.7	61
30	Free Radical Scavengers Inhibit Light-Dependent Degradation of the 32 kDa Photosystem II Reaction Center Protein. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 412-417.	0.6	60
31	Dynamic metabolism of photosystem II reaction center proteins and pigments. Physiologia Plantarum, 1999, 107, 454-461.	2.6	59
32	Induction by Copper Ions of Ethylene Production in Spirodela oligorrhiza: Evidence for a Pathway Independent of 1-Aminocyclopropane-1-carboxylic Acid. Journal of Plant Physiology, 1986, 123, 193-202.	1.6	58
33	Identification and characterization of the psbA gene product: The 32-kDa chloroplast membrane protein. Methods in Enzymology, 1986, , 384-396.	0.4	58
34	Induction of ethylene biosynthesis in tobacco leaf discs by cell wall digesting enzymes. Biochemical and Biophysical Research Communications, 1982, 107, 588-596.	1.0	54
35	Up-regulation of a photosystem II core protein phosphatase inhibitor and sustained D1 phosphorylation in zeaxanthin-retaining, photoinhibited needles of overwintering Douglas fir. Plant, Cell and Environment, 2005, 28, 232-240.	2.8	54
36	Hydrolytic Enzyme Activities and Protein Pattern of Avocado Fruit Ripened in Air and in Low Oxygen, with and without Ethylene. Plant Physiology, 1989, 90, 259-266.	2.3	50

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37	Distribution of Thylakoid Proteins between Stromal and Granal Lamellae in Spirodela. Plant Physiology, 1989, 91, 629-635.	2.3	50
38	Accelerated Degradation of the D2 Protein of Photosystem II Under Ultraviolet Radiation. Photochemistry and Photobiology, 1996, 63, 814-817.	1.3	49
39	Polyamine Interactions with Plant Hormones: Crosstalk at Several Levels. , 2015, , 267-302.		49
40	Changes in Sugars, Enzymic Activities and Acid Phosphatase Isoenzyme Profiles of Bananas Ripened in Air or Stored in 2.5% O₂ with and without Ethylene. Plant Physiology, 1989, 90, 251-258.	2.3	48
41	Genome-wide identification of tomato (Solanum lycopersicum L.) lipoxygenases coupled with expression profiles during plant development and in response to methyl-jasmonate and wounding. Journal of Plant Physiology, 2018, 231, 318-328.	1.6	47
42	Enhanced flux of substrates into polyamine biosynthesis but not ethylene in tomato fruit engineered with yeast S-adenosylmethionine decarboxylase gene. Amino Acids, 2014, 46, 729-742.	1.2	46
43	Overaccumulation of Higher Polyamines in Ripening Transgenic Tomato Fruit Revives Metabolic Memory, Upregulates Anabolism-Related Genes, and Positively Impacts Nutritional Quality. Journal of AOAC INTERNATIONAL, 2007, 90, 1456-1464.	0.7	45
44	Ethylene and Plant Senescence. , 1988, , 241-280.		44
45	Methyl jasmonate deficiency alters cellular metabolome, including the aminome of tomato (Solanum) Tj ETQq1 1 0.784314 rgBT /Ove	1.2	43
46	Amplified Degradation of Photosystem II D1 and D2 Proteins under a Mixture of Photosynthetically Active Radiation and UVB Radiation: Dependence on Redox Status of Photosystem II. Photochemistry and Photobiology, 1999, 69, 553-559.	1.3	42
47	Phosphorylation of the D1 Photosystem II Reaction Center Protein Is Controlled by an Endogenous Circadian Rhythm. Plant Physiology, 2002, 130, 2069-2075.	2.3	42
48	An alternative agriculture system is defined by a distinct expression profile of select gene transcripts and proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10535-10540.	3.3	42
49	Degradation of the 32 kDa Photosystem II Reaction Center Protein in UV, Visible and Far Red Light Occurs Through a Common 23.5 kDa Intermediate. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1989, 44, 450-452.	0.6	41
50	Enhancement by Ethylene of Cellulysin-Induced Ethylene Production by Tobacco Leaf Discs. Plant Physiology, 1984, 74, 99-103.	2.3	40
51	Degradation of the 32 kD Herbicide Binding Protein in Far Red Light. Plant Physiology, 1987, 84, 348-352.	2.3	40
52	Ultraviolet-B effects on Spirodela oligorrhiza: induction of different protection mechanisms. Plant Science, 1996, 115, 217-223.	1.7	40
53	Physio-Genetic Dissection of Dark-Induced Leaf Senescence and Timing Its Reversal in Barley. Plant Physiology, 2018, 178, 654-671.	2.3	40
54	Transcript Abundance Patterns of 9- and 13-Lipoxygenase Subfamily Gene Members in Response to Abiotic Stresses (Heat, Cold, Drought or Salt) in Tomato (Solanum lycopersicum L.) Highlights Member-Specific Dynamics Relevant to Each Stress. Genes, 2019, 10, 683.	1.0	40

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55	Rhizobialâ€“Host Interactions and Symbiotic Nitrogen Fixation in Legume Crops Toward Agriculture Sustainability. Frontiers in Microbiology, 2021, 12, 669404.	1.5	40
56	A field-grown transgenic tomato line expressing higher levels of polyamines reveals legume cover crop mulch-specific perturbations in fruit phenotype at the levels of metabolite profiles, gene expression, and agronomic characteristics. Journal of Experimental Botany, 2008, 59, 2337-2346.	2.4	39
57	Expression of an Engineered Heterologous Antimicrobial Peptide in Potato Alters Plant Development and Mitigates Normal Abiotic and Biotic Responses. PLoS ONE, 2013, 8, e77505.	1.1	39
58	Polyamines as anabolic growth regulators revealed by transcriptome analysis and metabolite profiles of tomato fruits engineered to accumulate spermidine and spermine. Plant Biotechnology, 2007, 24, 57-70.	0.5	38
59	Influence of Enol Ether Amino Acids, Inhibitors of Ethylene Biosynthesis, on Aminoacyl Transfer RNA Synthetases and Protein Synthesis. Plant Physiology, 1979, 64, 289-292.	2.3	34
60	Copper-induced ethylene biosynthesis in terrestrial (Nicotiana tabacum) and aquatic (Spirodela) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.4	34
61	Title is missing!. Plant and Soil, 1997, 194, 205-216.	1.8	34
62	Adaptive reorganization of protein and lipid components in chloroplast membranes as associated with herbicide binding. Journal of Cellular Biochemistry, 1984, 24, 163-175.	1.2	32
63	Nucleotide Sequence of the Nicotiana tabacum cv Xanthi Gene Encoding 1-Aminocyclopropane-1-Carboxylate Synthase. Plant Physiology, 1992, 100, 1615-1616.	2.3	32
64	Features of a unique intronless cluster of class I small heat shock protein genes in tandem with box C/D snoRNA genes on chromosome 6 in tomato (Solanum lycopersicum). Planta, 2012, 235, 453-471.	1.6	31
65	Sucrose non-fermenting 1-related protein kinase 2 (SnRK2): a family of protein kinases involved in hyperosmotic stress signaling. Physiology and Molecular Biology of Plants, 2008, 14, 91-100.	1.4	30
66	Polyamines and Their Biosynthesis/Catabolism Genes Are Differentially Modulated in Response to Heat Versus Cold Stress in Tomato Leaves (Solanum lycopersicum L.). Cells, 2020, 9, 1749.	1.8	29
67	Ethylene Binding During Leaf Development and Senescence and Its Inhibition by Silver Nitrate. Journal of Plant Physiology, 1984, 117, 243-248.	1.6	28
68	Translational Modification of an 18 Kilodalton Polypeptide by Spermidine in Rice Cell Suspension Cultures. Plant Physiology, 1991, 95, 1294-1297.	2.3	28
69	NMR-Metabolic Methodology in the Study of GM Foods. Nutrients, 2010, 2, 1-15.	1.7	28
70	Wound-regulated accumulation of specific transcripts in tomato fruit: interactions with fruit development, ethylene and light. Plant Molecular Biology, 1991, 17, 453-464.	2.0	26
71	Evidence for light-dependent and light-independent protein dephosphorylation in chloroplasts. FEBS Letters, 1997, 411, 236-238.	1.3	26
72	Membrane association and some characteristics of the ethylene forming enzyme from etiolated pea seedlings. Biochemical and Biophysical Research Communications, 1982, 105, 271-278.	1.0	25

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73	Cover Crop Residues Enhance Growth, Improve Yield, and Delay Leaf Senescence in Greenhouse-grown Tomatoes. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 1307-1311.	0.5	25
74	Genetic Engineering to Enhance Crop-Based Phytonutrients (Nutraceuticals) to Alleviate Diet-Related Diseases. Advances in Experimental Medicine and Biology, 2010, 698, 122-143.	0.8	24
75	Sustainable Crop Production Systems and Human Nutrition. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	24
76	Biosynthesis of ethylene: the effect of phosphate[*]. Plant, Cell and Environment, 1980, 3, 349-356.	2.8	23
77	Genetic introgression of ethylene-suppressed transgenic tomatoes with higher-polyamines trait overcomes many unintended effects due to reduced ethylene on the primary metabolome. Frontiers in Plant Science, 2014, 5, 632.	1.7	23
78	Mutations of Photosystem II D1 Protein That Empower Efficient Phenotypes of Chlamydomonas reinhardtii under Extreme Environment in Space. PLoS ONE, 2013, 8, e64352.	1.1	23
79	Transient regulation of three clustered tomato class-I small heat-shock chaperone genes by ethylene is mediated by SlMADS-RIN transcription factor. Scientific Reports, 2017, 7, 6474.	1.6	22
80	Fruit metabolite networks in engineered and non-engineered tomato genotypes reveal fluidity in a hormone and agroecosystem specific manner. Metabolomics, 2016, 12, 103.	1.4	21
81	Features of cues and processes during chloroplast-mediated retrograde signaling in the alga Chlamydomonas. Plant Science, 2018, 272, 193-206.	1.7	21
82	Polyamines â€“ A New Metabolic Switch: Crosstalk With Networks Involving Senescence, Crop Improvement, and Mammalian Cancer Therapy. Frontiers in Plant Science, 2019, 10, 859.	1.7	21
83	Maturity and ripening-stage specific modulation of tomato (Solanum lycopersicum) fruit transcriptome. GM Crops, 2010, 1, 237-249.	1.8	20
84	Ethylene and RIPENING INHIBITOR Modulate Expression of SlHSP17.7A, B Class I Small Heat Shock Protein Genes During Tomato Fruit Ripening. Frontiers in Plant Science, 2020, 11, 975.	1.7	20
85	Overaccumulation of higher polyamines in ripening transgenic tomato fruit revives metabolic memory, upregulates anabolism-related genes, and positively impacts nutritional quality. Journal of AOAC INTERNATIONAL, 2007, 90, 1456-64.	0.7	20
86	Differential Protein Metabolism and Gene Expression in Tomato Fruit during Wounding Stress1. Plant and Cell Physiology, 1991, 32, 1057-1065.	1.5	19
87	Tomato response to legume cover crop and nitrogen: differing enhancement patterns of fruit yield, photosynthesis and gene expression. Functional Plant Biology, 2012, 39, 246.	1.1	19
88	Plant Antimicrobial Peptides. , 2016, , 111-136.		19
89	1-Aminocyclopropane-1-carboxylic-acid-dependent ethylene production during re-formation of vacuoles in evacuolated protoplasts of Petunia hybrida. Planta, 1989, 179, 196-202.	1.6	18
90	Presence of the rapidly-labelled 32 000-dalton chloroplast membrane protein in triazine resistant biotypes. FEBS Letters, 1982, 140, 36-40.	1.3	16

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91	Stimulation of growth and glucose catabolite enzymes by succinate in some thermophilic fungi. Archives of Microbiology, 1978, 118, 49-53.	1.0	15
92	Characterization of the Phosphate-mediated Control of Ethylene Production by Penicillium digitatum. Plant Physiology, 1979, 64, 55-60.	2.3	14
93	Identification of covalently bound fatty acids on acylated proteins immoblized on nitrocellulose paper. Analytical Biochemistry, 1989, 183, 220-224.	1.1	14
94	Fruit Architecture in Polyamine-Rich Tomato Germplasm Is Determined via a Medley of Cell Cycle, Cell Expansion, and Fruit Shape Genes. Plants, 2019, 8, 387.	1.6	14
95	Subcellular Distributions of Isoenzymes in Fruits of a Normal Cultivar of Tomato and of the rin Mutant at Two Stages of Development. Plant Physiology, 1977, 60, 496-498.	2.3	13
96	Identification, Phylogeny, and Comparative Expression of the Lipoxygenase Gene Family of the Aquatic Duckweed, Spirodela polyrhiza, during Growth and in Response to Methyl Jasmonate and Salt. International Journal of Molecular Sciences, 2020, 21, 9527.	1.8	13
97	Biosynthesis of ethylene in higher plants: the metabolic site of inhibition by phosphate.. Plant, Cell and Environment, 1981, 4, 291-295.	2.8	12
98	Ethylene Signaling in Plant Cell Death. , 2004, , 125-142.		12
99	Fruit development and ripening. , 2012, , 405-424.		12
100	Seed dormancy is modulated in recently evolved chlorsulfuron-resistant Turkish biotypes of wild mustard (Sinapis arvensis). Frontiers in Chemistry, 2015, 3, 46.	1.8	12
101	Photosystem-II D1 protein mutants of Chlamydomonas reinhardtii in relation to metabolic rewiring and remodelling of H-bond network at QB site. Scientific Reports, 2018, 8, 14745.	1.6	12
102	Nexus Between Spermidine and Floral Organ Identity and Fruit/Seed Set in Tomato. Frontiers in Plant Science, 2019, 10, 1033.	1.7	12
103	Polyamine as Signaling Molecules and Leaf Senescence. , 2019, , 125-138.		12
104	Anthocyanin-Rich Vegetables for Human Consumptionâ€"Focus on Potato, Sweetpotato and Tomato. International Journal of Molecular Sciences, 2022, 23, 2634.	1.8	12
105	Malate dehydrogenase from thermophilic Humicola lanuginosa and Mucor pusillus: purification and comparative properties of the enzymes with differing thermostabilities. Canadian Journal of Biochemistry and Cell Biology, 1984, 62, 559-565.	1.3	11
106	Rapid in Vivo Acylation of Acyl Carrier Protein with Exogenous Fatty Acids in Spirodela oligorrhiza. Plant Physiology, 1989, 89, 707-711.	2.3	11
107	Nitric oxide donor-mediated inhibition of phosphorylation shows that light-mediated degradation of photosystem II D1 protein and phosphorylation are not tightly linked. Planta, 2009, 229, 1347-1352.	1.6	11
108	Translational research in agricultural biologyÃ¢â‚¬â€enhancing crop resistivity against environmental stress alongside nutritional quality. Frontiers in Chemistry, 2014, 2, 30.	1.8	10

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109	The ATP-dependent reductive carboxylation of 2-oxoglutarate using cytosol from rat liver. Biochemical and Biophysical Research Communications, 1976, 71, 712-718.	1.0	9
110	Chemosensory Responses to the Repellent Nepeta Essential Oil and Its Major Component Nepetalactone by Aedes aegypti (Diptera: Culicidae), a Vector of Zika Virus. Journal of Medical Entomology, 2017, 54, 957-963.	0.9	9
111	Future Perspectivesâ€. Advances in Photosynthesis and Respiration, 2008, , 23-38.	1.0	9
112	Wound-Induced Increase in 1-Aminocyclopropane-1-Carboxylate Synthase Activity: Regulatory Aspects and Membrane Association of the Enzyme. , 1984, , 139-147.		9
113	A functional tomato ACC synthase expressed inEscherichia colidemonstrates suicidal inactivation by its substrateS-adenosylmethionine. FEBS Letters, 1992, 306, 103-107.	1.3	8
114	COMPARATIVE TEMPERATUREâ€STABILITY PROPERTIES OF MALATE DEHYDROGENASES FROM SOME THERMOPHILIC FUNGI*. International Journal of Peptide and Protein Research, 1979, 14, 99-106.	0.1	8
115	Posttranslational Acylation and Intra-Thylakoid Translocation of Specific Chloroplast Proteins. , 1987, , 799-802.		8
116	Biotechnology of fruit quality.. , 2014, , 259-290.		8
117	Differential Association of Free, Conjugated, and Bound Forms of Polyamines and Transcript Abundance of Their Biosynthetic and Catabolic Genes During Drought/Salinity Stress in Tomato (Solanum lycopersicum L.) Leaves. Frontiers in Plant Science, 2021, 12, 743568.	1.7	8
118	Functional Foods: Genetics, Metabolome, and Engineering Phytonutrient Levels. , 2013, , 1715-1749.		7
119	Visualization of acid phosphatase activity on nitrocellulose filters following electroblotting of polyacrylamide gels. Analytical Biochemistry, 1989, 179, 194-197.	1.1	6
120	Nucleotide sequence of the Spirodela oligorrhiza chloroplast psbA gene coding for the D1 (32 kDa) photosystem II protein. Plant Molecular Biology, 1991, 17, 919-921.	2.0	6
121	[7] Peptidylprolyl cis-trans-isomerases from plant organelles. Methods in Enzymology, 1998, 290, 84-100.	0.4	6
122	Abiotic Stress in Crops: Candidate Genes, Osmolytes, Polyamines, and Biotechnological Intervention. , 2015, , 415-437.		6
123	Purification and Properties of the Ethylene-Inducing Factor from the Cell Wall Digesting Mixture, Cellulysin. , 1984, , 189-198.		6
124	Genomic analysis of the polyamine biosynthesis pathway in duckweed Spirodela polyrhiza L.: presence of the arginine decarboxylase pathway, absence of the ornithine decarboxylase pathway, and response to abiotic stresses. Planta, 2021, 254, 108.	1.6	6
125	Biosynthesis of ethylene in higher plants: the metabolic site of inhibition by phosphate*. Plant, Cell and Environment, 1981, 4, 291-295.	2.8	6
126	Molecular Dynamics of the 32,000-Dalton Photosystem II Herbicide-Binding Protein. ACS Symposium Series, 1988, , 248-257.	0.5	5

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127	Thiol-activated serine proteinases from nymphal hemolymph of the African migratory locust, Locusta migratoria migratorioides. Archives of Biochemistry and Biophysics, 2003, 410, 83-88.	1.4	5
128	Cleavage of the Carboxyl-Terminus of LEACS2, a Tomato 1-Aminocyclopropane-1-Carboxylic Acid Synthase Isomer, by a 64-kDa Tomato Metalloprotease Produces a Truncated but Active Enzyme. Journal of Integrative Plant Biology, 2005, 47, 1352-1363.	4.1	5
129	Engineered Ripening-Specific Accumulation of Polyamines Spermidine and Spermine in Tomato Fruit Upregulates Clustered C/D Box snoRNA Gene Transcripts in Concert with Ribosomal RNA Biogenesis in the Red Ripe Fruit. Plants, 2020, 9, 1710.	1.6	5
130	Crop Genetic Responses to Management. Books in Soils, Plants, and the Environment, 2006, , 221-230.	0.1	5
131	POLYAMINE SPERMIDINE IS AN UPSTREAM NEGATOR OF ETHYLENE-REGULATED PATHOGENESIS OF BOTRYTIS CINEREA IN TOMATO LEAF. Acta Horticulturae, 2011, , 109-112.	0.1	5
132	Properties of the Isocitrate Synthase System from Rat Liver. Biochemical Society Transactions, 1976, 4, 1058-1060.	1.6	4
133	A spectrum of genes expressed during early stages of rice panicle and flower development. Journal of Genetics, 2000, 79, 25-32.	0.4	4
134	Absence of the major light-harvesting antenna proteins alters the redox properties of photosystemÂII reaction centres in thechlorina F2mutant of barley. Biochemistry and Cell Biology, 2009, 87, 557-566.	0.9	4
135	Biotechnological Interventions to Improve Plant Developmental Traits. , 2010, , 199-248.		4
136	Identification and Amino Acid Sequences of Tryptic Peptides of a Novel Ferredoxin-NADP+ Oxidoreductase from Rice. Plant and Cell Physiology, 1996, 37, 1183-1187.	1.5	3
137	Low Temperature Storage Induces Acid Invertase in Potato Tubers (Solanum tuberosum). Journal of Plant Physiology, 1999, 154, 346-350.	1.6	3
138	Induction and Characterization of the Ethylene Biosynthesis-Inducing Xylanase Produced by the Fungus, Trichoderma Viride. , 1989, , 49-56.		3
139	NMR-metabolic methodology in the study of GM foods. Nutrients, 2010, 2, 1-15.	1.7	3
140	Variations in Adenylates and Adenylate Energy Charge During Phosphate-mediated Inhibition of Ethylene Biosynthesis in Penicillium digitatum. Zeitschrift FÃ¼r Pflanzenphysiologie, 1983, 111, 301-309.	1.4	2
141	Genetic manipulation of vegetable crops to alleviate diet-related diseases. , 2008, , 326-345.		2
142	Editorial: Ethylene Biology and Beyond: Novel Insights in the Ethylene Pathway and Its Interactions. Frontiers in Plant Science, 2020, 11, 248.	1.7	2
143	A tribute. Plant Physiology Reports, 2021, 26, 1-3.	0.7	2
144	Tomato ACC Synthase: Regulation of Gene Expression and Importance of the C-Terminal Region in Enzyme Activity. Current Plant Science and Biotechnology in Agriculture, 1993, , 223-231.	0.0	2

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145	Polyamines crossâ€talk with phospholipase A2 to regulate gene expression in tomato fruit and other plant models. FASEB Journal, 2007, 21, A1044.	0.2	1
146	PS II Inhibitor Binding, QB-Mediated Electron Flow and Rapid Degradation are Separable Properties of the D1 Reaction Centre Protein. , 1992, , 303-311.		1
147	Regulation of the 32 kD-D1 Photosystem II Reaction Center Protein. , 1993, , 131-156.		1
148	Photoregulation and Photoprotection of the Photosystem II Reaction Center Heterodimer. , 1999, , 549-571.		1
149	Ethylene, Polyamines and Fruit Ripening. Current Plant Science and Biotechnology in Agriculture, 1999, , 591-595.	0.0	1
150	Editorial: Sustainable Production of Nutrient-Dense Foods. Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	0
151	Synergistic Effects of the Combined Application of MCP and Low O2 on Apple Fruit Ripening. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 1143D-1144.	0.5	0
152	Ethylene Biosynthesis in Tobacco Leaf Discs in Relation to Ethylene Treatment, Cellulysin Application and Fungal Infection. , 1984, , 181-188.		0
153	Trafficking and Distribution of the Photosynthetic Reaction Centre Proteins in the Chloroplast Membranes. , 1989, , 189-193.		0
154	Redox-Regulated Protein Phosphorylation and Photosystem II Function. , 1992, , 533-537.		0
155	A Compendium of Characteristics for the Rapidly-Metabolized 32 Kd Protein of the Chloroplast Membrane. , 1983, , 187-192.		0