Agepati S Raghavendra

List of Publications by Year
in descending order

153 papers	6,417 citations	38 h-index (87723)	75 g-index (74018)
156 all docs	156 docs citations	156 times ranked	6149 citing authors

#	Article	IF	Citations
1	Metabolomics of Withania somnifera (L.) Dunal: Advances and applications. Journal of Ethnopharmacology, 2021, 267, 113469.	2.0	20
2	Abscisic Acid-Induced Stomatal Closure: An Important Component of Plant Defense Against Abiotic and Biotic Stress. Frontiers in Plant Science, 2021, 12, 615114.	1.7	181
3	Modulation of Photorespiratory Enzymes by Oxidative and Photo-Oxidative Stress Induced by Menadione in Leaves of Pea (Pisum sativum). Plants, 2021, 10, 987.	1.6	10
4	Variable Secondary Metabolite Profiles Across Cultivars of Curcuma longa L. and C. aromatica Salisb.. Frontiers in Pharmacology, 2021, 12, 659546.	1.6	15
5	Stomatal Closure Sets in Motion Long-Term Strategies of Plant Defense Against Microbial Pathogens. Frontiers in Plant Science, 2021, 12, 761952.	1.7	3
6	Methyl salicylate is the most effective natural salicylic acid ester to close stomata while raising reactive oxygen species and nitric oxide in Arabidopsis guard cells. Plant Physiology and Biochemistry, 2020, 157, 276-283.	2.8	8
7	Photosynthesis is sensitive to nitric oxide and respiration sensitive to hydrogen peroxide: Studies with pea mesophyll protoplasts. Journal of Plant Physiology, 2020, 246-247, 153133.	1.6	3
8	Special issue in honour of Prof. Reto J. Strasser - Targets of nitric oxide (NO) during modulation of photosystems in pea mesophyll protoplasts: studies using chlorophyll a fluorescence. Photosynthetica, 2020, 58, 452-459.	0.9	4
9	Protein Phosphatases in Guard Cells: Key Role in Stomatal Closure and Opening. , 2020, , 125-147.		0
10	Photorespiration is complemented by cyclic electron flow and the alternative oxidase pathway to optimize photosynthesis and protect against abiotic stress. Photosynthesis Research, 2019, 139, 67-79.	1.6	79
11	Oxidative stress induced in chloroplasts or mitochondria promotes proline accumulation in leaves of pea (Pisum sativum): another example of chloroplast-mitochondria interactions. Protoplasma, 2019, 256, 449-457.	1.0	32
12	Polyamines increase nitric oxide and reactive oxygen species in guard cells of Arabidopsis thaliana during stomatal closure. Protoplasma, 2018, 255, 153-162.	1.0	58
13	Mechanism of Stomatal Closure in Plants Exposed to Drought and Cold Stress. Advances in Experimental Medicine and Biology, 2018, 1081, 215-232.	0.8	161
14	Stimulation by abscisic acid of the activity of phosphoenolpyruvate carboxylase in leaf disks of Amaranthus hypochondriacus L., C4 plant: role of pH and protein levels. Protoplasma, 2017, 254, 1973-1981.	1.0	2
15	C 3 Plants. , 2017, , 44-51.		0
16	Measurement of Mitochondrial Respiration in Isolated Protoplasts: Cytochrome and Alternative Pathways. Methods in Molecular Biology, 2017, 1670, 253-265.	0.4	0
17	Editorial: Signal Transduction in Stomatal Guard Cells. Frontiers in Plant Science, 2017, 8, 114.	1.7	4
18	Stomatal Closure and Rise in ROS/NO of Arabidopsis Guard Cells by Tobacco Microbial Elicitors: Cryptogein and Harpin. Frontiers in Plant Science, 2017, 8, 1096.	1.7	18

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19	Alternative Oxidase Pathway Optimizes Photosynthesis During Osmotic and Temperature Stress by Regulating Cellular ROS, Malate Valve and Antioxidative Systems. Frontiers in Plant Science, 2016, 7, 68.	1.7	49
20	Convergence and Divergence of Signaling Events in Guard Cells during Stomatal Closure by Plant Hormones or Microbial Elicitors. Frontiers in Plant Science, 2016, 7, 1332.	1.7	30
21	Stomatal closure induced by phytosphingosine-1-phosphate and sphingosine-1-phosphate depends on nitric oxide and pH of guard cells in Pisum sativum. Planta, 2016, 244, 831-841.	1.6	20
22	Perspectives for a better understanding of the metabolic integration of photorespiration within a complex plant primary metabolism network. Journal of Experimental Botany, 2016, 67, 3015-3026.	2.4	98
23	Nitric Oxide (NO) Measurements in Stomatal Guard Cells. Methods in Molecular Biology, 2016, 1424, 49-56.	0.4	4
24	Metabolomics of Medicinal Plants - A Versatile Tool for Standardization of Herbal Products and Quality Evaluation of Ayurvedic Formulations. Current Science, 2016, 111, 1624.	0.4	37
25	Highly Sensitive HPLC Method for Estimation of Total or Individual Curcuminoids in <i>Curcuma</i> Cultivars and Commercial Turmeric Powders. Current Science, 2016, 111, 1816.	0.4	12
26	Antimycin A sensitive pathway independent from PGR5 cyclic electron transfer triggers non-photochemical reduction of PQ pool and state transitions in Arabidopsis thaliana. Journal of Photochemistry and Photobiology B: Biology, 2015, 146, 24-33.	1.7	10
27	Nitric oxide as a secondary messenger during stomatal closure as a part of plant immunity response against pathogens. Nitric Oxide - Biology and Chemistry, 2014, 43, 89-96.	1.2	43
28	Optimization of photosynthesis by multiple metabolic pathways involving interorganelle interactions: resource sharing and ROS maintenance as the bases. Photosynthesis Research, 2013, 117, 61-71.	1.6	50
29	Emerging concept for the role of photorespiration as an important part of abiotic stress response. Plant Biology, 2013, 15, 713-722.	1.8	278
30	Stem-bark of Terminalia arjuna attenuates human monocytic (THP-1) and aortic endothelial cell activation. Journal of Ethnopharmacology, 2013, 146, 456-464.	2.0	28
31	Nitric oxide in guard cells as an important secondary messenger during stomatal closure. Frontiers in Plant Science, 2013, 4, 425.	1.7	110
32	Pyrabactin, an ABA agonist, induced stomatal closure and changes in signalling components of guard cells in abaxial epidermis of Pisum sativum. Journal of Experimental Botany, 2012, 63, 1349-1356.	2.4	35
33	Multiple strategies to prevent oxidative stress in Arabidopsis plants lacking the malate valve enzyme NADP-malate dehydrogenase. Journal of Experimental Botany, 2012, 63, 1445-1459.	2.4	125
34	Gum resin of Boswellia serrata inhibited human monocytic (THP-1) cell activation and platelet aggregation. Journal of Ethnopharmacology, 2011, 137, 893-901.	2.0	43
35	Ascorbic acid is a key participant during the interactions between chloroplasts and mitochondria to optimize photosynthesis and protect against photoinhibition. Journal of Biosciences, 2011, 36, 163-173.	0.5	63
36	Interplay of light and temperature during the in planta modulation of C4 phosphoenolpyruvate carboxylase from the leaves of Amaranthus hypochondriacus L.: diurnal and seasonal effects manifested at molecular levels. Journal of Experimental Botany, 2011, 62, 1017-1026.	2.4	8

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37	Importance of ROS and antioxidant system during the beneficial interactions of mitochondrial metabolism with photosynthetic carbon assimilation. Planta, 2010, 231, 461-474.	1.6	94
38	Importance of AOX pathway in optimizing photosynthesis under high light stress: role of pyruvate and malate in activating AOX. Physiologia Plantarum, 2010, 139, 13-26.	2.6	68
39	ABA perception and signalling. Trends in Plant Science, 2010, 15, 395-401.	4.3	1,106
40	Chapter 1 Sir Jagadish Chandra Bose (1858â€“1937): A Pioneer in Photosynthesis Research and Discoverer of Unique Carbon Assimilation in Hydrilla. Advances in Photosynthesis and Respiration, 2010, , 3-11.	1.0	1
41	Chapter 3 Introduction. Advances in Photosynthesis and Respiration, 2010, , 17-25.	1.0	2
42	Cytosolic alkalinization is a common and early messenger preceding the production of ROS and NO during stomatal closure by variable signals, including abscisic acid, methyl jasmonate and chitosan. Plant Signaling and Behavior, 2009, 4, 561-564.	1.2	46
43	Induction of the AOX1D Isoform of Alternative Oxidase in A. thaliana T-DNA Insertion Lines Lacking Isoform AOX1A Is Insufficient to Optimize Photosynthesis when Treated with Antimycin A. Molecular Plant, 2009, 2, 284-297.	3.9	112
44	Nitric oxide production occurs downstream of reactive oxygen species in guard cells during stomatal closure induced by chitosan in abaxial epidermis of Pisum sativum. Planta, 2009, 229, 757-765.	1.6	134
45	Interaction of polyethylene glycol-6000 with C4 phosphoenolpyruvate carboxylase in crude leaf extracts as well as in purified protein form from Amaranthus hypochondriacus L.: evidence for oligomerization of PEPC in vitro and in vivo. Physiology and Molecular Biology of Plants, 2008, 14, 227-234.	1.4	0
46	Nitric oxide production occurs after cytosolic alkalinization during stomatal closure induced by abscisic acid. Plant, Cell and Environment, 2008, 31, 1717-1724.	2.8	65
47	Mutual stimulation of temperature and light effects on C4 phosphoenolpyruvate carboxylase in leaf discs and leaves of Amaranthus hypochondriacus. Journal of Plant Physiology, 2008, 165, 1023-1032.	1.6	4
48	Multiple Factors Mediate the Cross Talk Between Mitochondrial Metabolism and Photosynthetic Carbon Assimilation: Roles of Photorespiratory CO2 and Ascorbate. , 2008, , 1057-1061.		0
49	Molecular Basis SetsA General Similarity-Based Approach for Representing Chemical Spaces. Journal of Chemical Information and Modeling, 2007, 47, 1328-1340.	2.5	14
50	Preparation of Arabidopsis mesophyll protoplasts with high rates of photosynthesis. Physiologia Plantarum, 2007, 129, 879-886.	2.6	22
51	Nitric oxide is a signaling intermediate during bicarbonate-induced stomatal closure in Pisum sativum. Physiologia Plantarum, 2007, 130, 91-98.	2.6	34
52	Hydrogen peroxide production is an early event during bicarbonate induced stomatal closure in abaxial epidermis of Arabidopsis. Planta, 2007, 225, 1421-1429.	1.6	73
53	PHOTOOXIDATIVE STRESS. , 2006, , 157-186.		17
54	Markedly low requirement of added CO2for photosynthesis by mesophyll protoplasts of pea (Pisum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2006, 128, 763-772.	2.6	34

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55	Evolution of C4 phosphoenolpyruvate carboxylase in the genus Alternanthera: gene families and the enzymatic characteristics of the C4 isozyme and its orthologues in C3 and C3/C4 Alternantheras. Planta, 2006, 223, 359-368.	1.6	40
56	Guard cell metabolism and CO 2 sensing. New Phytologist, 2005, 165, 665-682.	3.5	188
57	Photosynthesis research in India: transition from yield physiology into molecular biology. , 2005, , 1189-1204.		1
58	Modulation of phosphoenolpyruvate carboxylase in vivo by Ca2+ in Amaranthus hypochondriacus, a NAD-ME type C4 plant: Possible involvement of Ca2+ in up-regulation of PEPC-protein kinase in vivo. Journal of Plant Physiology, 2005, 162, 1095-1102.	1.6	0
59	Modulation in vivo by Nitrate Salts of the Activity and Properties of Phosphoenolpyruvate Carboxylase in Leaves of Alternanthera pungens (C₄ plant) and A. sessilis (C₃) Tj ETQq1 1 0.784314 rgBT /Ov	[illegible]	[illegible]
60	Cytoplasmic Alkalization Precedes Reactive Oxygen Species Production during Methyl Jasmonate- and Abscisic Acid-Induced Stomatal Closure. Plant Physiology, 2004, 134, 1536-1545.	2.3	429
61	Marked changes in volume of mesophyll protoplasts of pea (Pisum sativum) on exposure to growth hormones. Journal of Plant Physiology, 2004, 161, 557-562.	1.6	7
62	Enhanced production of antimicrobial sesquiterpenes and lipoxygenase metabolites in elicitor-treated hairy root cultures of Solanum tuberosum. Biotechnology Letters, 2003, 25, 593-597.	1.1	49
63	Photosynthesis research in India: transition from yield physiology into molecular biology. Photosynthesis Research, 2003, 76, 435-450.	1.6	11
64	Beneficial interactions of mitochondrial metabolism with photosynthetic carbon assimilation. Trends in Plant Science, 2003, 8, 546-553.	4.3	435
65	Different signaling pathways involved during the suppression of stomatal opening by methyl jasmonate or abscisic acid. Plant Science, 2003, 164, 481-488.	1.7	75
66	Light activation of NADP malic enzyme in leaves of maize: Marginal increase in activity, but marked change in regulatory properties of enzyme. Journal of Plant Physiology, 2003, 160, 51-56.	1.6	11
67	Marked modulation by phosphate of phosphoenolpyruvate carboxylase in leaves of Amaranthus hypochondriacus, a NAD-ME type C4 plant: decrease in malate sensitivity but no change in the phosphorylation status. Journal of Experimental Botany, 2003, 54, 2661-2668.	2.4	5
68	Dramatic difference in the responses of phosphoenolpyruvate carboxylase to temperature in leaves of C3 and C4 plants. Journal of Experimental Botany, 2003, 54, 707-714.	2.4	42
69	Essentiality of Mitochondrial Oxidative Metabolism for Photosynthesis: Optimization of Carbon Assimilation and Protection Against Photoinhibition. Critical Reviews in Biochemistry and Molecular Biology, 2002, 37, 71-119.	2.3	113
70	Computer Vision Method for Biomedical Image Analysis. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.1	3
71	Consequence of restricted mitochondrial oxidative metabolism on photosynthetic carbon assimilation in mesophyll protoplasts: Decrease in light activation of four chloroplastic enzymes. Physiologia Plantarum, 2001, 112, 582-588.	2.6	24
72	Importance of the cytochrome pathway of mitochondrial electron transport over the alternative pathway during the Kok effect in leaf discs of pea (Pisum sativum). Physiologia Plantarum, 2001, 113, 430-434.	2.6	5

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73	Phosphoenolpyruvate Carboxylase Purified from Leaves of C₃, C₄, and C₃-C₄ intermediate species of Alternanthera: Properties at Limiting and Saturating Bicarbonate. Photosynthetica, 2000, 38, 415-419.	0.9	3
74	Purification and Stability during Storage of Phoshoenolpyruvate Carboxylase from Leaves of Amaranthus hypochondriacus, a NAD-ME Type C₄ Plant. Photosynthetica, 2000, 38, 45-52.	0.9	4
75	Modulation of Phosphoenolpyruvate Carboxylase Phosphorylation in Leaves of Amaranthus hypochondriacus, a NAD-ME Type of C₄ Plant. Photosynthetica, 2000, 38, 23-28.	0.9	4
76	Illumination Increases the Affinity of Phosphoenolpyruvate Carboxylase to Bicarbonate in Leaves of a C4 Plant, Amaranthus hypochondriacus. Plant and Cell Physiology, 2000, 41, 905-910.	1.5	23
77	A novel method of measuring volume changes of mesophyll cell protoplasts and the effect of mercuric chloride on their osmotically-induced swelling. Journal of Experimental Botany, 1999, 50, 401-406.	2.4	14
78	Importance of oxidative electron transport over oxidative phosphorylation in optimizing photosynthesis in mesophyll protoplasts of pea (Pisum sativum L.). Physiologia Plantarum, 1999, 105, 546-553.	2.6	53
79	Title is missing!. Photosynthesis Research, 1999, 62, 231-239.	1.6	42
80	Prolongation of photosynthetic induction as a consequence of interference with mitochondrial oxidative metabolism in mesophyll protoplasts of the pea (Pisum sativum L.). Plant Science, 1999, 142, 29-36.	1.7	20
81	Modulation by weak bases or weak acids of the pH of cell sap and phosphoenolpyruvate carboxylase activity in leaf discs of C4 plants. Physiologia Plantarum, 1998, 104, 456-462.	2.6	2
82	Participation of Mitochondrial Metabolism in Photorespiration1. Plant Physiology, 1998, 116, 1333-1337.	2.3	47
83	Modulation by Bicarbonate of Catalytic and Regulatory Properties of C4Phosphoenolpyruvate Carboxylase from Amaranthus hypochondriacus: Desensitization to Malate and Glucose 6-Phosphate and Sensitization to Mg2+. Plant and Cell Physiology, 1998, 39, 1294-1298.	1.5	9
84	Both rubisco and phosphoenolpyruvate carboxylase are beneficial for stomatal function in epidermal strips of Commelina benghalensis. Plant Science, 1997, 124, 153-157.	1.7	24
85	Blue light-promoted stomatal opening in abaxial epidermis of Commelina benghalensis is maximal at low calcium. Physiologia Plantarum, 1997, 101, 861-864.	2.6	1
86	Purification and properties of glycolate oxidase from plants with different photosynthetic pathways: Distinctness of C4 enzyme from that of a C3 species and a C3â€“C4 intermediate. Photosynthesis Research, 1996, 47, 231-238.	1.6	23
87	Correlation between the inhibition of photosynthesis and the decrease in area of detached leaf discs or volume/absorbance of protoplasts under osmotic stress in pea (Pisum sativum). Physiologia Plantarum, 1996, 96, 395-400.	2.6	7
88	Oscillations in photosynthetic carbon assimilation and chlorophyll fluorescence are different in Amaranthus caudatus, a C4 plant, and Spinacia oleracea, a C3 plant. Planta, 1995, 195, 471.	1.6	5
89	Bioenergetic processes in guard cells related to stomatal function. Physiologia Plantarum, 1995, 93, 146-154.	2.6	16
90	Predominant localization of mitochondria enriched with glycine-decarboxylating enzymes in bundle sheath cells of Alternanthera tenella, a C3-C4 intermediate species. Plant, Cell and Environment, 1995, 18, 589-594.	2.8	26

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91	High Mitochondrial Activity but Incomplete Engagement of the Cyanide-Resistant Alternative Pathway in Guard Cell Protoplasts of Pea. Plant Physiology, 1994, 105, 1263-1268.	2.3	27
92	Molecular biology of C4 phosphoenolpyruvate carboxylase: Structure, regulation and genetic engineering. Photosynthesis Research, 1994, 39, 115-135.	1.6	55
93	Inhibition of photosynthesis by osmotic stress in pea (Pisum sativum) mesophyll protoplasts is intensified by chilling or photoinhibitory light; intriguing responses of respiration. Plant, Cell and Environment, 1994, 17, 739-746.	2.8	15
94	Interdependence of photosynthesis and respiration in plant cells: interactions between chloroplasts and mitochondria. Plant Science, 1994, 97, 1-14.	1.7	109
95	Suppression of Oxygen Evolving System in Spinach Chloroplast Membranes due to Release of Manganese on Exposure to Osmotic Stress in vitro in Presence of Magnesium. Journal of Plant Biochemistry and Biotechnology, 1994, 3, 137-140.	0.9	1
96	Photorespiration in C3?C4 intermediate species of Alternanthera and Parthenium: Reduced ammonia production and increased capacity of CO2 refixation in the light. Photosynthesis Research, 1993, 38, 177-184.	1.6	12
97	Light-induced pH changes in leaves of C4 plants. Planta, 1993, 189, 267.	1.6	29
98	Light-dependent pH changes in leaves of C4 plants Comparison of the pH response to carbon dioxide and oxygen with that of C3 plants. Planta, 1993, 189, 278.	1.6	32
99	Patterns of phosphoenolpyruvate carboxylase activity and cytosolic pH during light activation and dark deactivation in C3 and C4 plants. Photosynthesis Research, 1993, 38, 51-60.	1.6	28
100	Partial Reduction in Activities of Photorespiratory Enzymes in C3â€“C4Intermediates ofAlternantheraandParthenium. Journal of Experimental Botany, 1993, 44, 779-784.	2.4	17
101	Role of dark respiration in photoinhibition of photosynthesis and its reactivation in the cyanobacterium Anacystis nidulans. Physiologia Plantarum, 1993, 88, 446-452.	2.6	10
102	Plasma Membrane Redox System in Guard Cell Protoplasts of Pea (Pisum sativumL.). Journal of Experimental Botany, 1992, 43, 291-297.	2.4	6
103	Dark Respiration Protects Photosynthesis Against Photoinhibition in Mesophyll Protoplasts of Pea (<i>Pisum sativum</i>). Plant Physiology, 1992, 99, 1232-1237.	2.3	88
104	Light Activation of Phosphoenolpyruvate Carboxylase in Maize Mesophyll Protoplasts. Journal of Plant Physiology, 1992, 139, 431-435.	1.6	6
105	Structure, Regulation and Biosynthesis of Phosphoenolpyruvate Carboxylase from C4 Plants. Journal of Plant Biochemistry and Biotechnology, 1992, 1, 73-80.	0.9	3
106	Vacuolar pH oscillations in mesophyll cells accompany oscillations of photosynthesis in leaves: Interdependence of cellular compartments, and regulation of electron flow in photosynthesis. Planta, 1992, 186, 526-31.	1.6	12
107	Light-Enhanced Dark Respiration in Mesophyll Protoplasts from Leaves of Pea. Plant Physiology, 1991, 96, 1368-1371.	2.3	45
108	Beneficial interaction between photosynthesis and respiration in mesophyll protoplasts of pea during short light-dark cycles. Physiologia Plantarum, 1990, 80, 467-471.	2.6	26

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109	Blue light effects on stomata are mediated by the guard cell plasma membrane redox system distinct from the proton translocating ATPase. Plant, Cell and Environment, 1990, 13, 105-110.	2.8	44
110	Sensitivity of photosynthesis by spinach chloroplast membranes to osmotic stress in vitro: Rapid inhibition of O2 evolution in presence of magnesium. Photosynthesis Research, 1990, 23, 325-330.	1.6	10
111	Tetrazolium Reduction by Guard Cells in Abaxial Epidermis of <i>Vicia faba:</i> Blue Light Stimulation of a Plasmalemma Redox System. Plant Physiology, 1989, 90, 59-62.	2.3	29
112	Respiration in Guard Cells, Pattern and Possible Role in Stomatal Function. Journal of Plant Physiology, 1989, 135, 3-8.	1.6	21
113	Action of Proline on Stomata Differs from That of Abscisic Acid, G-Substances, or Methyl Jasmonate. Plant Physiology, 1987, 83, 732-734.	2.3	70
114	Erratum. Plant Cell Reports, 1985, 4, 114-114.	2.8	2
115	Stomatal opening in isolated epidermis of Commelina benghalensis L. heterophasic response to KCl concentration. Plant Cell Reports, 1984, 3, 199-202.	2.8	1
116	Change in Levels of Starch and Sugars in Epidermis ofCommelina benghalensisduring Fusicoccin Stimulated Stomatal Opening. Journal of Experimental Botany, 1983, 34, 1018-1025.	2.4	3
117	Photosynthetic Units and Carbon Assimilation in Leaves of Grain Sorghum under Different Light Intensities. Plant and Cell Physiology, 1983, 24, 1395-1400.	1.5	1
118	STIMULATION AND INHIBITION BY BICARBONATE OF STOMATAL OPENING IN EPIDERMAL STRIPS OF COMMELINA BENGHALENSIS. New Phytologist, 1982, 91, 413-418.	3.5	11
119	Energy Supply for Stomatal Opening in Epidermal Strips of <i>Commelina benghalensis</i>. Plant Physiology, 1981, 67, 385-387.	2.3	29
120	Chloride and Nitrate Stimulate Stomatal Opening and Decrease Potassium Uptake and Malate Production in Epidermal Tissues of Commelina benghalensis. Functional Plant Biology, 1980, 7, 663.	1.1	6
121	Variation with age in the photosynthetic carbon fixation pattern by leaves of Amaranthus paniculatus and Oryza sativa: Change in the primary carboxylation but no shift from C4 or C3 pathway. Physiologia Plantarum, 1980, 49, 405-409.	2.6	8
122	Regulation of phosphoenolpyruvate carboxylase in C4 plants: Inhibition by pyrophosphate of the enzyme from Amaranthus viridis. Archives of Biochemistry and Biophysics, 1980, 201, 356-358.	1.4	5
123	Antitranspirants for improvement of water use efficiency of crops. Outlook on Agriculture, 1979, 10, 92-98.	1.8	19
124	Isolation of intact mesophyll cells from the leaves of higher plants. Proceedings of the Indian Academy of Sciences - Section A Part 3 Mathematical Sciences, 1979, 88, 143-154.	0.1	2
125	Photochemical Characteristics of Mesophyll and Bundle Sheath Chloroplasts from C4 Plants. Physiologia Plantarum, 1978, 43, 107-113.	2.6	1
126	Comparative Studies on C4 and C3 Photosynthetic Systems: Enzyme Levels in the Leaves and Their Distribution in Mesophyll and Bundle Sheath Cells. Zeitschrift FÃ¼r Pflanzenphysiologie, 1978, 87, 379-393.	1.4	11

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127	Photosynthetic Carbon Metabolism in Leaves of C4- and C3-Plants: A Detailed Comparative Study. Zeitschrift FÃ¼r Pflanzenphysiologie, 1978, 87, 297-311.	1.4	4
128	Simultaneous occurrence of C3 and C4 photosyntheses in relation to leaf position in Mollugo nudicaulis. Nature, 1978, 273, 143-144.	13.7	22
129	Development of photochemical activities in mesophyll and bundle sheath chloroplasts of C4 and C3 plants during seedling growth. Plant Science Letters, 1978, 12, 355-360.	1.9	1
130	(Na+-K+)-stimulated ATPase in Leaves of C4Plants: Possible Involvement in Active Transport of C4Acids. Journal of Experimental Botany, 1978, 29, 39-47.	2.4	9
131	Antitranspirant Activity of Inhibitors of Cyclic Photophosphorylation. Journal of Experimental Botany, 1977, 28, 480-483.	2.4	5
132	Effects of Light Quality on Photosynthetic Carbon Metabolism in C4and C3Plants: Rapid Movements of Photosynthetic Intermediates Between Mesophyll and Bundle Sheath Cells. Journal of Experimental Botany, 1977, 28, 1169-1179.	2.4	5
133	Endogenous Photophosphorylation by Mesophyll and Bundle Sheath Chloroplasts from Setaria italica and Amaranthus paniculatus1. Annals of Botany, 1977, 41, 667-669.	1.4	1
134	Comparative Studies on C4 and C3 Photosynthetic Systems: Effect of Metabolic Inhibitors and Biochemical Intermediates on Carbon Metabolism. Zeitschrift FÃ¼r Pflanzenphysiologie, 1977, 85, 9-16.	1.4	2
135	Purification and Properties of Phosphoenolpyruvate and Ribulose Diphosphate Carboxylases from C4 and C3 Plants. Zeitschrift FÃ¼r Pflanzenphysiologie, 1977, 82, 315-321.	1.4	15
136	Mechanism of stomatal movement. Nature, 1977, 266, 282-282.	13.7	1
137	SHIFTS IN PHOTOSYNTHETIC CARBON LABELLING PATTERN BY ETIOLATED RICE (ORYZA SATIVA L.) SEEDLINGS DURING GREENING. New Phytologist, 1977, 79, 89-94.	3.5	5
138	ASPARTATE-DEPENDENT ALANINE PRODUCTION BY LEAF DISCS OF AMARANTHUS PANICULATUS, AN ASPARTATE UTILIZING NAD-MALIC ENZYME TYPE C4 PLANT. New Phytologist, 1977, 79, 481-487.	3.5	4
139	Light-Enhanced Dark 14CO2 Fixation by Leaves in Relation to the C4 Dicarboxylic Acid Pathway of Photosynthesis. Functional Plant Biology, 1977, 4, 833.	1.1	2
140	Adenosine triphosphatase in epidermal tissue of Commelina benghalensis: Possible involvement of isozymes in stomatal movement. Plant Science Letters, 1976, 7, 391-396.	1.9	15
141	Characterisation of abscisic acid inhibition of stomatal opening in isolated epidermal strips. Plant Science Letters, 1976, 6, 111-115.	1.9	21
142	Diversity in the Arrangements of Mesophyll Cells among Leaves of Certain C4 Dicotyledons in Relation to C4 Physiology. Zeitschrift FÃ¼r Pflanzenphysiologie, 1976, 77, 283-291.	1.4	15
143	Phosphoenolpyruvate Carboxylase from Setaria italica: Inhibition by Oxalacetate and Malate. Zeitschrift FÃ¼r Pflanzenphysiologie, 1976, 78, 434-437.	1.4	11
144	Replacibility of Potassium by Sodium for Stomatal Opening in Epidermal Strips of Commmelina benghalensist. Zeitschrift FÃ¼r Pflanzenphysiologie, 1976, 80, 36-42.	1.4	17

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145	Inhibition of chloroplast photochemical reactions with 2-chloromercuri 4,6-dinitrophenol. Archives of Biochemistry and Biophysics, 1976, 175, 355-356.	1.4	3
146	Shrinkage of Guard Cell Chloroplasts in Relation to Stomatal Opening in Commelina benghalensis L.. Annals of Botany, 1976, 40, 899-901.	1.4	4
147	Suppression of the stomatal opening by morphactins in isolated epidermal strips. Plant and Cell Physiology, 1976, 17, 77-82.	1.5	7
148	REVERSAL OF ABSCISIC ACID INDUCED STOMATAL CLOSURE BY BENZYL ADENINE. New Phytologist, 1976, 76, 449-452.	3.5	27
149	DISTRIBUTION OF THE C4 DICARBOXYLIC ACID PATHWAY OF PHOTOSYNTHESIS IN LOCAL MONOCOTYLEDONOUS PLANTS AND ITS TAXONOMIC SIGNIFICANCE. New Phytologist, 1976, 76, 301-305.	3.5	30
150	C4 photosynthesis and a unique type of Kranz anatomy inGlossocordia boswallaea (Asteraceae). Proceedings of the Indian Academy of Sciences - Section A Part 3 Mathematical Sciences, 1976, 84, 12-19.	0.1	5
151	Malonate-inhibition of allosteric phosphoenolpyruvate carboxylase from Setaria italica. Biochemical and Biophysical Research Communications, 1975, 66, 160-165.	1.0	30
152	A screening of the dicotyledonous weed flora for the occurrence of C4 dicarboxylic acid pathway of photosynthesis. Proceedings of the Indian Academy of Sciences - Section A Part 3 Mathematical Sciences, 1973, 77, 93-100.	0.1	16
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