

Agepati S Raghavendra

List of Publications by Year in descending order

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153
papers

6,417
citations

87888

38
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74163

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156
docs citations

156
times ranked

6149
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomics of <i>Withania somnifera</i> (L.) Dunal: Advances and applications. <i>Journal of Ethnopharmacology</i> , 2021, 267, 113469.	4.1	20
2	Abscisic Acid-Induced Stomatal Closure: An Important Component of Plant Defense Against Abiotic and Biotic Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 615114.	3.6	181
3	Modulation of Photorespiratory Enzymes by Oxidative and Photo-Oxidative Stress Induced by Menadione in Leaves of Pea (<i>Pisum sativum</i>). <i>Plants</i> , 2021, 10, 987.	3.5	10
4	Variable Secondary Metabolite Profiles Across Cultivars of <i>Curcuma longa</i> L. and <i>C. aromatica</i> Salisb.. <i>Frontiers in Pharmacology</i> , 2021, 12, 659546.	3.5	15
5	Stomatal Closure Sets in Motion Long-Term Strategies of Plant Defense Against Microbial Pathogens. <i>Frontiers in Plant Science</i> , 2021, 12, 761952.	3.6	3
6	Methyl salicylate is the most effective natural salicylic acid ester to close stomata while raising reactive oxygen species and nitric oxide in <i>Arabidopsis</i> guard cells. <i>Plant Physiology and Biochemistry</i> , 2020, 157, 276-283.	5.8	8
7	Photosynthesis is sensitive to nitric oxide and respiration sensitive to hydrogen peroxide: Studies with pea mesophyll protoplasts. <i>Journal of Plant Physiology</i> , 2020, 246-247, 153133.	3.5	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. <i>Photosynthetica</i> , 2020, 58, 452-459.	1.7	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. <i>Photosynthesis Research</i> , 2019, 139, 67-79.	2.9	79
11	Oxidative stress induced in chloroplasts or mitochondria promotes proline accumulation in leaves of pea (<i>Pisum sativum</i>): another example of chloroplast-mitochondria interactions. <i>Protoplasma</i> , 2019, 256, 449-457.	2.1	32
12	Polyamines increase nitric oxide and reactive oxygen species in guard cells of <i>Arabidopsis thaliana</i> during stomatal closure. <i>Protoplasma</i> , 2018, 255, 153-162.	2.1	58
13	Mechanism of Stomatal Closure in Plants Exposed to Drought and Cold Stress. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 215-232.	1.6	161
14	Stimulation by abscisic acid of the activity of phosphoenolpyruvate carboxylase in leaf disks of <i>Amaranthus hypochondriacus</i> L., C4 plant: role of pH and protein levels. <i>Protoplasma</i> , 2017, 254, 1973-1981.	2.1	2
15	C 3 Plants. , 2017, , 44-51.		0
16	Measurement of Mitochondrial Respiration in Isolated Protoplasts: Cytochrome and Alternative Pathways. <i>Methods in Molecular Biology</i> , 2017, 1670, 253-265.	0.9	0
17	Editorial: Signal Transduction in Stomatal Guard Cells. <i>Frontiers in Plant Science</i> , 2017, 8, 114.	3.6	4
18	Stomatal Closure and Rise in ROS/NO of <i>Arabidopsis</i> Guard Cells by Tobacco Microbial Elicitors: Cryptogein and Harpin. <i>Frontiers in Plant Science</i> , 2017, 8, 1096.	3.6	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. <i>Frontiers in Plant Science</i> , 2016, 7, 68.	3.6	49
20	Convergence and Divergence of Signaling Events in Guard Cells during Stomatal Closure by Plant Hormones or Microbial Elicitors. <i>Frontiers in Plant Science</i> , 2016, 7, 1332.	3.6	30
21	Stomatal closure induced by phytosphingosine-1-phosphate and sphingosine-1-phosphate depends on nitric oxide and pH of guard cells in <i>Pisum sativum</i> . <i>Planta</i> , 2016, 244, 831-841.	3.2	20
22	Perspectives for a better understanding of the metabolic integration of photorespiration within a complex plant primary metabolism network. <i>Journal of Experimental Botany</i> , 2016, 67, 3015-3026.	4.8	98
23	Nitric Oxide (NO) Measurements in Stomatal Guard Cells. <i>Methods in Molecular Biology</i> , 2016, 1424, 49-56.	0.9	4
24	Metabolomics of Medicinal Plants - A Versatile Tool for Standardization of Herbal Products and Quality Evaluation of Ayurvedic Formulations. <i>Current Science</i> , 2016, 111, 1624.	0.8	37
25	Highly Sensitive HPLC Method for Estimation of Total or Individual Curcuminoids in <i>Curcuma</i> Cultivars and Commercial Turmeric Powders. <i>Current Science</i> , 2016, 111, 1816.	0.8	12
26	Antimycin A sensitive pathway independent from PGR5 cyclic electron transfer triggers non-photochemical reduction of PQ pool and state transitions in <i>Arabidopsis thaliana</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 146, 24-33.	3.8	10
27	Nitric oxide as a secondary messenger during stomatal closure as a part of plant immunity response against pathogens. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 43, 89-96.	2.7	43
28	Optimization of photosynthesis by multiple metabolic pathways involving interorganelle interactions: resource sharing and ROS maintenance as the bases. <i>Photosynthesis Research</i> , 2013, 117, 61-71.	2.9	50
29	Emerging concept for the role of photorespiration as an important part of abiotic stress response. <i>Plant Biology</i> , 2013, 15, 713-722.	3.8	278
30	Stem-bark of <i>Terminalia arjuna</i> attenuates human monocytic (THP-1) and aortic endothelial cell activation. <i>Journal of Ethnopharmacology</i> , 2013, 146, 456-464.	4.1	28
31	Nitric oxide in guard cells as an important secondary messenger during stomatal closure. <i>Frontiers in Plant Science</i> , 2013, 4, 425.	3.6	110
32	Pyrabactin, an ABA agonist, induced stomatal closure and changes in signalling components of guard cells in abaxial epidermis of <i>Pisum sativum</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 1349-1356.	4.8	35
33	Multiple strategies to prevent oxidative stress in <i>Arabidopsis</i> plants lacking the malate valve enzyme NADP-malate dehydrogenase. <i>Journal of Experimental Botany</i> , 2012, 63, 1445-1459.	4.8	125
34	Gum resin of <i>Boswellia serrata</i> inhibited human monocytic (THP-1) cell activation and platelet aggregation. <i>Journal of Ethnopharmacology</i> , 2011, 137, 893-901.	4.1	43
35	Ascorbic acid is a key participant during the interactions between chloroplasts and mitochondria to optimize photosynthesis and protect against photoinhibition. <i>Journal of Biosciences</i> , 2011, 36, 163-173.	1.1	63
36	Interplay of light and temperature during the in planta modulation of C4 phosphoenolpyruvate carboxylase from the leaves of <i>Amaranthus hypochondriacus</i> L.: diurnal and seasonal effects manifested at molecular levels. <i>Journal of Experimental Botany</i> , 2011, 62, 1017-1026.	4.8	8

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37	Importance of ROS and antioxidant system during the beneficial interactions of mitochondrial metabolism with photosynthetic carbon assimilation. <i>Planta</i> , 2010, 231, 461-474.	3.2	94
38	Importance of AOX pathway in optimizing photosynthesis under high light stress: role of pyruvate and malate in activating AOX. <i>Physiologia Plantarum</i> , 2010, 139, 13-26.	5.2	68
39	ABA perception and signalling. <i>Trends in Plant Science</i> , 2010, 15, 395-401.	8.8	1,106
40	Chapter 1 Sir Jagadish Chandra Bose (1858â€“1937): A Pioneer in Photosynthesis Research and Discoverer of Unique Carbon Assimilation in Hydrilla. <i>Advances in Photosynthesis and Respiration</i> , 2010, , 3-11.	1.0	1
41	Chapter 3 Introduction. <i>Advances in Photosynthesis and Respiration</i> , 2010, , 17-25.	1.0	2
42	Cytosolic alkalization 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. <i>Plant Signaling and Behavior</i> , 2009, 4, 561-564.	2.4	46
43	Induction of the AOX1D Isoform of Alternative Oxidase in <i>A. thaliana</i> T-DNA Insertion Lines Lacking Isoform AOX1A Is Insufficient to Optimize Photosynthesis when Treated with Antimycin A. <i>Molecular Plant</i> , 2009, 2, 284-297.	8.3	112
44	Nitric oxide production occurs downstream of reactive oxygen species in guard cells during stomatal closure induced by chitosan in abaxial epidermis of <i>Pisum sativum</i> . <i>Planta</i> , 2009, 229, 757-765.	3.2	134
45	Interaction of polyethylene glycol-6000 with C4 phosphoenolpyruvate carboxylase in crude leaf extracts as well as in purified protein form from <i>Amaranthus hypochondriacus</i> L.: evidence for oligomerization of PEPC in vitro and in vivo. <i>Physiology and Molecular Biology of Plants</i> , 2008, 14, 227-234.	3.1	0
46	Nitric oxide production occurs after cytosolic alkalization during stomatal closure induced by abscisic acid. <i>Plant, Cell and Environment</i> , 2008, 31, 1717-1724.	5.7	65
47	Mutual stimulation of temperature and light effects on C4 phosphoenolpyruvate carboxylase in leaf discs and leaves of <i>Amaranthus hypochondriacus</i> . <i>Journal of Plant Physiology</i> , 2008, 165, 1023-1032.	3.5	4
48	Multiple Factors Mediate the Cross Talk Between Mitochondrial Metabolism and Photosynthetic Carbon Assimilation: Roles of Photorespiratory CO ₂ and Ascorbate. , 2008, , 1057-1061.		0
49	Molecular Basis Sets A General Similarity-Based Approach for Representing Chemical Spaces. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 1328-1340.	5.4	14
50	Preparation of <i>Arabidopsis</i> mesophyll protoplasts with high rates of photosynthesis. <i>Physiologia Plantarum</i> , 2007, 129, 879-886.	5.2	22
51	Nitric oxide is a signaling intermediate during bicarbonate-induced stomatal closure in <i>Pisum sativum</i> . <i>Physiologia Plantarum</i> , 2007, 130, 91-98.	5.2	34
52	Hydrogen peroxide production is an early event during bicarbonate induced stomatal closure in abaxial epidermis of <i>Arabidopsis</i> . <i>Planta</i> , 2007, 225, 1421-1429.	3.2	73
53	PHOTOOXIDATIVE STRESS. , 2006, , 157-186.		17
54	Markedly low requirement of added CO ₂ for photosynthesis by mesophyll protoplasts of pea (<i>Pisum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf . 2006, 128, 763-772.	5.2	34

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55	Evolution of C4 phosphoenolpyruvate carboxylase in the genus <i>Alternanthera</i> : gene families and the enzymatic characteristics of the C4 isozyme and its orthologues in C3 and C3/C4 <i>Alternantheras</i> . <i>Planta</i> , 2006, 223, 359-368.	3.2	40
56	Guard cell metabolism and CO ₂ sensing. <i>New Phytologist</i> , 2005, 165, 665-682.	7.3	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 Ca ²⁺ in <i>Amaranthus hypochondriacus</i> , a NAD-ME type C4 plant: Possible involvement of Ca ²⁺ in up-regulation of PEPC-protein kinase in vivo. <i>Journal of Plant Physiology</i> , 2005, 162, 1095-1102.	3.5	0
59	Modulation in vivo by Nitrate Salts of the Activity and Properties of Phosphoenolpyruvate Carboxylase in Leaves of <i>Alternanthera pungens</i> (C ₄ plant) and <i>A. sessilis</i> (C ₃) Tj ETQq1 1.0.784314 rgBT /Ov	1.0.784314	
60	Cytoplasmic Alkalinization Precedes Reactive Oxygen Species Production during Methyl Jasmonate- and Abscisic Acid-Induced Stomatal Closure. <i>Plant Physiology</i> , 2004, 134, 1536-1545.	4.8	429
61	Marked changes in volume of mesophyll protoplasts of pea (<i>Pisum sativum</i>) on exposure to growth hormones. <i>Journal of Plant Physiology</i> , 2004, 161, 557-562.	3.5	7
62	Enhanced production of antimicrobial sesquiterpenes and lipoxygenase metabolites in elicitor-treated hairy root cultures of <i>Solanum tuberosum</i> . <i>Biotechnology Letters</i> , 2003, 25, 593-597.	2.2	49
63	Photosynthesis research in India: transition from yield physiology into molecular biology. <i>Photosynthesis Research</i> , 2003, 76, 435-450.	2.9	11
64	Beneficial interactions of mitochondrial metabolism with photosynthetic carbon assimilation. <i>Trends in Plant Science</i> , 2003, 8, 546-553.	8.8	435
65	Different signaling pathways involved during the suppression of stomatal opening by methyl jasmonate or abscisic acid. <i>Plant Science</i> , 2003, 164, 481-488.	3.6	75
66	Light activation of NADP malic enzyme in leaves of maize: Marginal increase in activity, but marked change in regulatory properties of enzyme. <i>Journal of Plant Physiology</i> , 2003, 160, 51-56.	3.5	11
67	Marked modulation by phosphate of phosphoenolpyruvate carboxylase in leaves of <i>Amaranthus hypochondriacus</i> , a NAD-ME type C4 plant: decrease in malate sensitivity but no change in the phosphorylation status. <i>Journal of Experimental Botany</i> , 2003, 54, 2661-2668.	4.8	5
68	Dramatic difference in the responses of phosphoenolpyruvate carboxylase to temperature in leaves of C3 and C4 plants. <i>Journal of Experimental Botany</i> , 2003, 54, 707-714.	4.8	42
69	Essentiality of Mitochondrial Oxidative Metabolism for Photosynthesis: Optimization of Carbon Assimilation and Protection Against Photoinhibition. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2002, 37, 71-119.	5.2	113
70	Computer Vision Method for Biomedical Image Analysis. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Ov rlock 10 Tf 50 142	3.2	3
71	Consequence of restricted mitochondrial oxidative metabolism on photosynthetic carbon assimilation in mesophyll protoplasts: Decrease in light activation of four chloroplastic enzymes. <i>Physiologia Plantarum</i> , 2001, 112, 582-588.	5.2	24
72	Importance of the cytochrome pathway of mitochondrial electron transport over the alternative pathway during the Kok effect in leaf discs of pea (<i>Pisum sativum</i>). <i>Physiologia Plantarum</i> , 2001, 113, 430-434.	5.2	5

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73	Phosphoenolpyruvate Carboxylase Purified from Leaves of C ₃ , C ₄ , and C ₃ -C ₄ intermediate species of Alternanthera: Properties at Limiting and Saturating Bicarbonate. <i>Photosynthetica</i> , 2000, 38, 415-419.	1.7	3
74	Purification and Stability during Storage of Phosphoenolpyruvate Carboxylase from Leaves of <i>Amaranthus hypochondriacus</i> , a NAD-ME Type C ₄ Plant. <i>Photosynthetica</i> , 2000, 38, 45-52.	1.7	4
75	Modulation of Phosphoenolpyruvate Carboxylase Phosphorylation in Leaves of <i>Amaranthus hypochondriacus</i> , a NAD-ME Type of C ₄ Plant. <i>Photosynthetica</i> , 2000, 38, 23-28.	1.7	4
76	Illumination Increases the Affinity of Phosphoenolpyruvate Carboxylase to Bicarbonate in Leaves of a C ₄ Plant, <i>Amaranthus hypochondriacus</i> . <i>Plant and Cell Physiology</i> , 2000, 41, 905-910.	3.1	23
77	A novel method of measuring volume changes of mesophyll cell protoplasts and the effect of mercuric chloride on their osmotically-induced swelling. <i>Journal of Experimental Botany</i> , 1999, 50, 401-406.	4.8	14
78	Importance of oxidative electron transport over oxidative phosphorylation in optimizing photosynthesis in mesophyll protoplasts of pea (<i>Pisum sativum</i> L.). <i>Physiologia Plantarum</i> , 1999, 105, 546-553.	5.2	53
79	Title is missing!. <i>Photosynthesis Research</i> , 1999, 62, 231-239.	2.9	42
80	Prolongation of photosynthetic induction as a consequence of interference with mitochondrial oxidative metabolism in mesophyll protoplasts of the pea (<i>Pisum sativum</i> L.). <i>Plant Science</i> , 1999, 142, 29-36.	3.6	20
81	Modulation by weak bases or weak acids of the pH of cell sap and phosphoenolpyruvate carboxylase activity in leaf discs of C ₄ plants. <i>Physiologia Plantarum</i> , 1998, 104, 456-462.	5.2	2
82	Participation of Mitochondrial Metabolism in Photorespiration1. <i>Plant Physiology</i> , 1998, 116, 1333-1337.	4.8	47
83	Modulation by Bicarbonate of Catalytic and Regulatory Properties of C ₄ Phosphoenolpyruvate Carboxylase from <i>Amaranthus hypochondriacus</i> : Desensitization to Malate and Glucose 6-Phosphate and Sensitization to Mg ²⁺ . <i>Plant and Cell Physiology</i> , 1998, 39, 1294-1298.	3.1	9
84	Both rubisco and phosphoenolpyruvate carboxylase are beneficial for stomatal function in epidermal strips of <i>Commelina benghalensis</i> . <i>Plant Science</i> , 1997, 124, 153-157.	3.6	24
85	Blue light-promoted stomatal opening in abaxial epidermis of <i>Commelina benghalensis</i> is maximal at low calcium. <i>Physiologia Plantarum</i> , 1997, 101, 861-864.	5.2	1
86	Purification and properties of glycolate oxidase from plants with different photosynthetic pathways: Distinctness of C ₄ enzyme from that of a C ₃ species and a C ₃ -C ₄ intermediate. <i>Photosynthesis Research</i> , 1996, 47, 231-238.	2.9	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 (<i>Pisum sativum</i>). <i>Physiologia Plantarum</i> , 1996, 96, 395-400.	5.2	7
88	Oscillations in photosynthetic carbon assimilation and chlorophyll fluorescence are different in <i>Amaranthus caudatus</i> , a C ₄ plant, and <i>Spinacia oleracea</i> , a C ₃ plant. <i>Planta</i> , 1995, 195, 471.	3.2	5
89	Bioenergetic processes in guard cells related to stomatal function. <i>Physiologia Plantarum</i> , 1995, 93, 146-154.	5.2	16
90	Predominant localization of mitochondria enriched with glycine-decarboxylating enzymes in bundle sheath cells of <i>Alternanthera tenella</i> , a C ₃ -C ₄ intermediate species. <i>Plant, Cell and Environment</i> , 1995, 18, 589-594.	5.7	26

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91	High Mitochondrial Activity but Incomplete Engagement of the Cyanide-Resistant Alternative Pathway in Guard Cell Protoplasts of Pea. <i>Plant Physiology</i> , 1994, 105, 1263-1268.	4.8	27
92	Molecular biology of C4 phosphoenolpyruvate carboxylase: Structure, regulation and genetic engineering. <i>Photosynthesis Research</i> , 1994, 39, 115-135.	2.9	55
93	Inhibition of photosynthesis by osmotic stress in pea (<i>Pisum sativum</i>) mesophyll protoplasts is intensified by chilling or photoinhibitory light; intriguing responses of respiration. <i>Plant, Cell and Environment</i> , 1994, 17, 739-746.	5.7	15
94	Interdependence of photosynthesis and respiration in plant cells: interactions between chloroplasts and mitochondria. <i>Plant Science</i> , 1994, 97, 1-14.	3.6	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. <i>Journal of Plant Biochemistry and Biotechnology</i> , 1994, 3, 137-140.	1.7	1
96	Photorespiration in C3/C4 intermediate species of <i>Alternanthera</i> and <i>Parthenium</i> : Reduced ammonia production and increased capacity of CO ₂ refixation in the light. <i>Photosynthesis Research</i> , 1993, 38, 177-184.	2.9	12
97	Light-induced pH changes in leaves of C4 plants. <i>Planta</i> , 1993, 189, 267.	3.2	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. <i>Planta</i> , 1993, 189, 278.	3.2	32
99	Patterns of phosphoenolpyruvate carboxylase activity and cytosolic pH during light activation and dark deactivation in C3 and C4 plants. <i>Photosynthesis Research</i> , 1993, 38, 51-60.	2.9	28
100	Partial Reduction in Activities of Photorespiratory Enzymes in C3/C4 Intermediates of <i>Alternanthera</i> and <i>Parthenium</i> . <i>Journal of Experimental Botany</i> , 1993, 44, 779-784.	4.8	17
101	Role of dark respiration in photoinhibition of photosynthesis and its reactivation in the cyanobacterium <i>Anacystis nidulans</i> . <i>Physiologia Plantarum</i> , 1993, 88, 446-452.	5.2	10
102	Plasma Membrane Redox System in Guard Cell Protoplasts of Pea (<i>Pisum sativum</i> L.). <i>Journal of Experimental Botany</i> , 1992, 43, 291-297.	4.8	6
103	Dark Respiration Protects Photosynthesis Against Photoinhibition in Mesophyll Protoplasts of Pea (<i>Pisum sativum</i>). <i>Plant Physiology</i> , 1992, 99, 1232-1237.	4.8	88
104	Light Activation of Phosphoenolpyruvate Carboxylase in Maize Mesophyll Protoplasts. <i>Journal of Plant Physiology</i> , 1992, 139, 431-435.	3.5	6
105	Structure, Regulation and Biosynthesis of Phosphoenolpyruvate Carboxylase from C4 Plants. <i>Journal of Plant Biochemistry and Biotechnology</i> , 1992, 1, 73-80.	1.7	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. <i>Planta</i> , 1992, 186, 526-31.	3.2	12
107	Light-Enhanced Dark Respiration in Mesophyll Protoplasts from Leaves of Pea. <i>Plant Physiology</i> , 1991, 96, 1368-1371.	4.8	45
108	Beneficial interaction between photosynthesis and respiration in mesophyll protoplasts of pea during short light-dark cycles. <i>Physiologia Plantarum</i> , 1990, 80, 467-471.	5.2	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. <i>Plant, Cell and Environment</i> , 1990, 13, 105-110.	5.7	44
110	Sensitivity of photosynthesis by spinach chloroplast membranes to osmotic stress in vitro: Rapid inhibition of O ₂ evolution in presence of magnesium. <i>Photosynthesis Research</i> , 1990, 23, 325-330.	2.9	10
111	Tetrazolium Reduction by Guard Cells in Abaxial Epidermis of <i>Vicia faba</i> : Blue Light Stimulation of a Plasmalemma Redox System. <i>Plant Physiology</i> , 1989, 90, 59-62.	4.8	29
112	Respiration in Guard Cells, Pattern and Possible Role in Stomatal Function. <i>Journal of Plant Physiology</i> , 1989, 135, 3-8.	3.5	21
113	Action of Proline on Stomata Differs from That of Abscisic Acid, G-Substances, or Methyl Jasmonate. <i>Plant Physiology</i> , 1987, 83, 732-734.	4.8	70
114	Erratum. <i>Plant Cell Reports</i> , 1985, 4, 114-114.	5.6	2
115	Stomatal opening in isolated epidermis of <i>Commelina benghalensis</i> L. heterophasic response to KCl concentration. <i>Plant Cell Reports</i> , 1984, 3, 199-202.	5.6	1
116	Change in Levels of Starch and Sugars in Epidermis of <i>Commelina benghalensis</i> during Fusicoccin Stimulated Stomatal Opening. <i>Journal of Experimental Botany</i> , 1983, 34, 1018-1025.	4.8	3
117	Photosynthetic Units and Carbon Assimilation in Leaves of Grain Sorghum under Different Light Intensities. <i>Plant and Cell Physiology</i> , 1983, 24, 1395-1400.	3.1	1
118	STIMULATION AND INHIBITION BY BICARBONATE OF STOMATAL OPENING IN EPIDERMAL STRIPS OF <i>COMMELINA BENGHALENSIS</i> . <i>New Phytologist</i> , 1982, 91, 413-418.	7.3	11
119	Energy Supply for Stomatal Opening in Epidermal Strips of <i>Commelina benghalensis</i> . <i>Plant Physiology</i> , 1981, 67, 385-387.	4.8	29
120	Chloride and Nitrate Stimulate Stomatal Opening and Decrease Potassium Uptake and Malate Production in Epidermal Tissues of <i>Commelina benghalensis</i> . <i>Functional Plant Biology</i> , 1980, 7, 663.	2.1	6
121	Variation with age in the photosynthetic carbon fixation pattern by leaves of <i>Amaranthus paniculatus</i> and <i>Oryza sativa</i> : Change in the primary carboxylation but no shift from C ₄ or C ₃ pathway. <i>Physiologia Plantarum</i> , 1980, 49, 405-409.	5.2	8
122	Regulation of phosphoenolpyruvate carboxylase in C ₄ plants: Inhibition by pyrophosphate of the enzyme from <i>Amaranthus viridis</i> . <i>Archives of Biochemistry and Biophysics</i> , 1980, 201, 356-358.	3.0	5
123	Antitranspirants for improvement of water use efficiency of crops. <i>Outlook on Agriculture</i> , 1979, 10, 92-98.	3.4	19
124	Isolation of intact mesophyll cells from the leaves of higher plants. <i>Proceedings of the Indian Academy of Sciences - Section A Part 3 Mathematical Sciences</i> , 1979, 88, 143-154.	0.1	2
125	Photochemical Characteristics of Mesophyll and Bundle Sheath Chloroplasts from C ₄ Plants. <i>Physiologia Plantarum</i> , 1978, 43, 107-113.	5.2	1
126	Comparative Studies on C ₄ and C ₃ Photosynthetic Systems: Enzyme Levels in the Leaves and Their Distribution in Mesophyll and Bundle Sheath Cells. <i>Zeitschrift für Pflanzenphysiologie</i> , 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 für Pflanzenphysiologie, 1978, 87, 297-311.	1.4	4
128	Simultaneous occurrence of C3 and C4 photosyntheses in relation to leaf position in <i>Mollugo nudicaulis</i> . Nature, 1978, 273, 143-144.	27.8	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.	1.8	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.	4.8	9
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