Birger Lindberg MÃ¸ller

List of Publications by Year
in descending order

343 papers	20,360 citations	8181 76 h-index	17592 121 g-index
361 all docs	361 docs citations	361 times ranked	14675 citing authors

#	Article	IF	Citations
1	Metabolon formation and metabolic channeling in the biosynthesis of plant natural products. Current Opinion in Plant Biology, 2005, 8, 280-291.	7.1	476
2	Î²-Glucosidases as detonators of plant chemical defense. Phytochemistry, 2008, 69, 1795-1813.	2.9	459
3	Cyanogenic Glycosides: Synthesis, Physiology, and Phenotypic Plasticity. Annual Review of Plant Biology, 2014, 65, 155-185.	18.7	337
4	CYP703 Is an Ancient Cytochrome P450 in Land Plants Catalyzing in-Chain Hydroxylation of Lauric Acid to Provide Building Blocks for Sporopollenin Synthesis in Pollen. Plant Cell, 2007, 19, 1473-1487.	6.6	332
5	De Novo Biosynthesis of Vanillin in Fission Yeast (<i>Schizosaccharomyces pombe</i>) and Baker's Yeast (<i>Saccharomyces cerevisiae</i>). Applied and Environmental Microbiology, 2009, 75, 2765-2774.	3.1	325
6	Cyanogenic glucosides and plantâ€"insect interactions. Phytochemistry, 2004, 65, 293-306.	2.9	294
7	CYP704B1 Is a Long-Chain Fatty Acid<i>Ï‰</i>-Hydroxylase Essential for Sporopollenin Synthesis in Pollen of Arabidopsis Â Â. Plant Physiology, 2009, 151, 574-589.	4.8	280
8	Plant chemical defense: at what cost?. Trends in Plant Science, 2013, 18, 250-258.	8.8	277
9	Resistance to an Herbivore Through Engineered Cyanogenic Glucoside Synthesis. Science, 2001, 293, 1826-1828.	12.6	267
10	On the origin of family 1 plant glycosyltransferases. Phytochemistry, 2003, 62, 399-413.	2.9	261
11	Plant cytochromes P450: tools for pharmacology, plant protection and phytoremediation. Current Opinion in Biotechnology, 2003, 14, 151-162.	6.6	253
12	Vanillinâ€"Bioconversion and Bioengineering of the Most Popular Plant Flavor and Its De Novo Biosynthesis in the Vanilla Orchid. Molecular Plant, 2015, 8, 40-57.	8.3	234
13	Cassava Plants with a Depleted Cyanogenic Glucoside Content in Leaves and Tubers. Distribution of Cyanogenic Glucosides, Their Site of Synthesis and Transport, and Blockage of the Biosynthesis by RNA Interference Technology. Plant Physiology, 2005, 139, 363-374.	4.8	232
14	Cassava genome from a wild ancestor to cultivated varieties. Nature Communications, 2014, 5, 5110.	12.8	230
15	Substrate specificity of plant UDP-dependent glycosyltransferases predicted from crystal structures and homology modeling. Phytochemistry, 2009, 70, 325-347.	2.9	226
16	Improved vanillin production in baker's yeast through in silico design. Microbial Cell Factories, 2010, 9, 84.	4.0	226
17	Characterization of a dynamic metabolon producing the defense compound dhurrin in sorghum. Science, 2016, 354, 890-893.	12.6	222
18	Cyanogenesis in plants and arthropods. Phytochemistry, 2008, 69, 1457-1468.	2.9	215

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19	Functional diversifications of cyanogenic glucosides. Current Opinion in Plant Biology, 2010, 13, 337-346.	7.1	210
20	Phytocannabinoids: Origins and Biosynthesis. Trends in Plant Science, 2020, 25, 985-1004.	8.8	195
21	Metabolic engineering of dhurrin in transgenic Arabidopsis plants with marginal inadvertent effects on the metabolome and transcriptome. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1779-1784.	7.1	194
22	Chlorophyll-proteins of thylakoids from wild-type and mutants of barley (Hordeum vulgare L.). Carlsberg Research Communications, 1979, 44, 235-254.	1.8	193
23	Utilization of a high-throughput shoot imaging system to examine the dynamic phenotypic responses of a C4 cereal crop plant to nitrogen and water deficiency over time. Journal of Experimental Botany, 2015, 66, 1817-1832.	4.8	189
24	Cloning of three A-type cytochromes P450, CYP71E1, CYP98, and CYP99 from Sorghum bicolor (L.) Moench by a PCR approach and identification by expression in Escherichia coli of CYP71E1 as a multifunctional cytochrome P450 in the biosynthesis of the cyanogenic glucoside dhurrin. Plant Molecular Biology, 1998, 36, 393-405.	3.9	180
25	Cytochromes P-450 from Cassava (Manihot esculentaCrantz) Catalyzing the First Steps in the Biosynthesis of the Cyanogenic Glucosides Linamarin and Lotaustralin. Journal of Biological Chemistry, 2000, 275, 1966-1975.	3.4	177
26	Photosystem I Is an Early Target of Photoinhibition in Barley Illuminated at Chilling Temperatures1. Plant Physiology, 1998, 116, 755-764.	4.8	172
27	The UDP-glucose:p-Hydroxymandelonitrile-O-Glucosyltransferase That Catalyzes the Last Step in Synthesis of the Cyanogenic Glucoside Dhurrin in Sorghum bicolor. Journal of Biological Chemistry, 1999, 274, 35483-35491.	3.4	165
28	Genomic clustering of cyanogenic glucoside biosynthetic genes aids their identification in <i>Lotus japonicus</i> and suggests the repeated evolution of this chemical defence pathway. Plant Journal, 2011, 68, 273-286.	5.7	162
29	Vanillin formation from ferulic acid in Vanilla planifolia is catalysed by a single enzyme. Nature Communications, 2014, 5, 4037.	12.8	157
30	The Metabolic Response of Arabidopsis Roots to Oxidative Stress is Distinct from that of Heterotrophic Cells in Culture and Highlights a Complex Relationship between the Levels of Transcripts, Metabolites, and Flux. Molecular Plant, 2009, 2, 390-406.	8.3	155
31	Cytochrome P-450TYR Is a Multifunctional Heme-Thiolate Enzyme Catalyzing the Conversion of L-Tyrosine to p-Hydroxyphenylacetaldehyde Oxime in the Biosynthesis of the Cyanogenic Glucoside Dhurrin in Sorghum bicolor (L.) Moench. Journal of Biological Chemistry, 1995, 270, 3506-3511.	3.4	152
32	Plant NADPH-cytochrome P450 oxidoreductases. Phytochemistry, 2010, 71, 132-141.	2.9	152
33	Dhurrin Synthesis in Sorghum Is Regulated at the Transcriptional Level and Induced by Nitrogen Fertilization in Older Plants. Plant Physiology, 2002, 129, 1222-1231.	4.8	150
34	Biosynthesis of the Cyanogenic Glucoside Dhurrin in Seedlings of <i>Sorghum bicolor</i> (L.) Moench and Partial Purification of the Enzyme System Involved. Plant Physiology, 1989, 90, 1552-1559.	4.8	149
35	Identification of a chloroplast-encoded 9-kDa polypeptide as a 2[4Fe-4S] protein carrying centers A and B of photosystem I.. Journal of Biological Chemistry, 1987, 262, 12676-12684.	3.4	143
36	The PSI-E subunit of photosystem I binds ferredoxin:NADP+oxidoreductase. FEBS Letters, 1992, 311, 169-173.	2.8	139

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37	The degree of starch phosphorylation is related to the chain length distribution of the neutral and the phosphorylated chains of amylopectin. Carbohydrate Research, 1998, 307, 45-54.	2.3	139
38	The Primary Sequence of Cytochrome P450tyr, the MultifunctionalN-Hydroxylase Catalyzing the Conversion ofL-Tyrosine top-Hydroxyphenylacetaldehyde Oxime in the Biosynthesis of the Cyanogenic Glucoside Dhurrin inSorghum bicolor(L.) Moench. Archives of Biochemistry and Biophysics, 1995, 323, 177-186.	3.0	136
39	Manoyl Oxide (13R), the Biosynthetic Precursor of Forskolin, Is Synthesized in Specialized Root Cork Cells in <i>Coleus forskohlii</i>. Plant Physiology, 2014, 164, 1222-1236.	4.8	135
40	Expanding the Landscape of Diterpene Structural Diversity through Stereochemically Controlled Combinatorial Biosynthesis. Angewandte Chemie - International Edition, 2016, 55, 2142-2146.	13.8	134
41	Metabolon formation in dhurrin biosynthesis. Phytochemistry, 2008, 69, 88-98.	2.9	125
42	The distribution of covalently bound phosphate in the starch granule in relation to starch crystallinity. International Journal of Biological Macromolecules, 2000, 27, 211-218.	7.5	124
43	Plant cytochrome P450 plasticity and evolution. Molecular Plant, 2021, 14, 1244-1265.	8.3	124
44	Identification of a chloroplast-encoded 9-kDa polypeptide as a 2[4Fe-4S] protein carrying centers A and B of photosystem I. Journal of Biological Chemistry, 1987, 262, 12676-84.	3.4	123
45	Isolation and Reconstitution of Cytochrome P450ox and in Vitro Reconstitution of the Entire Biosynthetic Pathway of the Cyanogenic Glucoside Dhurrin from Sorghum. Plant Physiology, 1997, 115, 1661-1670.	4.8	122
46	Cyanogenic glycosides: a case study for evolution and application of cytochromes P450. Phytochemistry Reviews, 2006, 5, 309-329.	6.5	122
47	Elliptical Structure of Phospholipid Bilayer Nanodiscs Encapsulated by Scaffold Proteins: Casting the Roles of the Lipids and the Protein. Journal of the American Chemical Society, 2010, 132, 13713-13722.	13.7	117
48	Mutation of a bHLH transcription factor allowed almond domestication. Science, 2019, 364, 1095-1098.	12.6	116
49	Dynamic Metabolons. Science, 2010, 330, 1328-1329.	12.6	115
50	Convergent evolution in biosynthesis of cyanogenic defence compounds in plants and insects. Nature Communications, 2011, 2, 273.	12.8	115
51	Bitterness in Almonds. Plant Physiology, 2008, 146, 1040-1052.	4.8	113
52	The biosynthesis of cyanogenic glucosides in higher plants. Channeling of intermediates in dhurrin biosynthesis by a microsomal system from Sorghum bicolor (linn) Moench. Journal of Biological Chemistry, 1980, 255, 3049-56.	3.4	113
53	Phenolic cross-links: building and de-constructing the plant cell wall. Natural Product Reports, 2020, 37, 919-961.	10.3	111
54	A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. Biochemical Journal, 2015, 469, 375-389.	3.7	109

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55	A combined biochemical screen and TILLING approach identifies mutations in <i>Sorghum bicolor</i> L. Moench resulting in acyanogenic forage production. Plant Biotechnology Journal, 2012, 10, 54-66.	8.3	106
56	Purification and Characterization of Recombinant Cytochrome P450TYR Expressed at High Levels in Escherichia coli. Archives of Biochemistry and Biophysics, 1995, 322, 369-377.	3.0	105
57	Metabolic engineering of p-hydroxybenzylglucosinolate in Arabidopsis by expression of the cyanogenic CYP79A1 from Sorghum bicolor. Plant Journal, 1999, 20, 663-671.	5.7	105
58	Evolution of heteromeric nitrilase complexes in Poaceae with new functions in nitrile metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18848-18853.	7.1	100
59	Total biosynthesis of the cyclic AMP booster forskolin from Coleus forskohlii. ELife, 2017, 6, .	6.0	97
60	Starch Phosphorylation in Potato Tubers Proceeds Concurrently with de Novo Biosynthesis of Starch. Plant Physiology, 1994, 105, 111-117.	4.8	96
61	Substrate Specificity of the Cytochrome P450 Enzymes CYP79A1 and CYP71E1 Involved in the Biosynthesis of the Cyanogenic Glucoside Dhurrin inSorghum bicolor(L.) Moench. Archives of Biochemistry and Biophysics, 1999, 363, 9-18.	3.0	96
62	Microbial production of next-generation stevia sweeteners. Microbial Cell Factories, 2016, 15, 207.	4.0	96
63	Conformational changes of the NADPH-dependent cytochrome P450 reductase in the course of electron transfer to cytochromes P450. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 132-138.	2.3	95
64	Catalytic Key Amino Acids and UDP-Sugar Donor Specificity of a Plant Glucuronosyltransferase, UGT94B1: Molecular Modeling Substantiated by Site-Specific Mutagenesis and Biochemical Analyses. Plant Physiology, 2008, 148, 1295-1308.	4.8	93
65	First Principles Insight into the Î±-Glucan Structures of Starch: Their Synthesis, Conformation, and Hydration. Chemical Reviews, 2010, 110, 2049-2080.	47.7	92
66	The biosynthesis of cyanogenic glucosides in seedlings of cassava (Manihot esculenta Crantz). Archives of Biochemistry and Biophysics, 1992, 292, 141-150.	3.0	91
67	Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from Chlamydomonas reinhardtii. Metabolic Engineering, 2018, 49, 116-127.	7.0	91
68	Oximes: Unrecognized Chameleons in General and Specialized Plant Metabolism. Molecular Plant, 2018, 11, 95-117.	8.3	90
69	The in vitro substrate regiospecificity of recombinant UGT85B1, the cyanohydrin glucosyltransferase from Sorghum bicolor. Phytochemistry, 2003, 64, 143-151.	2.9	87
70	Plasticity of specialized metabolism as mediated by dynamic metabolons. Trends in Plant Science, 2015, 20, 20-32.	8.8	86
71	Transgenic Tobacco and Arabidopsis Plants Expressing the Two Multifunctional Sorghum Cytochrome P450 Enzymes, CYP79A1 and CYP71E1, Are Cyanogenic and Accumulate Metabolites Derived from Intermediates in Dhurrin Biosynthesis. Plant Physiology, 2000, 123, 1437-1448.	4.8	85
72	Active Oxygen Produced during Selective Excitation of Photosystem I Is Damaging Not Only to Photosystem I, But Also to Photosystem II. Plant Physiology, 2001, 125, 2007-2015.	4.8	85

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73	Redirecting Photosynthetic Reducing Power toward Bioactive Natural Product Synthesis. ACS Synthetic Biology, 2013, 2, 308-315.	3.8	85
74	Isolation of the heme-thiolate enzyme cytochrome P-450TYR, which catalyzes the committed step in the biosynthesis of the cyanogenic glucoside dhurrin in Sorghum bicolor (L.) Moench.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 9740-9744.	7.1	83
75	Biosynthesis of the Cyanogenic Glucosides Linamarin and Lotaustralin in Cassava: Isolation, Biochemical Characterization, and Expression Pattern of CYP71E7, the Oxime-Metabolizing Cytochrome P450 Enzyme. Plant Physiology, 2011, 155, 282-292.	4.8	83
76	Polypeptide composition of an oxygen evolving photosystem II vesicle from spinach chloroplasts. Carlsberg Research Communications, 1981, 46, 227-242.	1.8	81
77	Transcriptome and Metabolite Changes during Hydrogen Cyanamide-Induced Floral Bud Break in Sweet Cherry. Frontiers in Plant Science, 2017, 8, 1233.	3.6	81
78	Granule-bound starch synthase I in isolated starch granules elongates malto-oligosaccharides processively. Biochemical Journal, 1999, 340, 183-191.	3.7	80
79	Starch molecular structure and phosphorylation investigated by a combined chromatographic and chemometric approach. Carbohydrate Polymers, 2000, 41, 163-174.	10.2	79
80	A General Method Based on the Use of<i>N</i>-Bromosuccinimide for Removal of the Thiophenyl Group at the Anomeric Position to Generate A Reducing Sugar with the Original Protecting Groups Still Present. Journal of Carbohydrate Chemistry, 1995, 14, 1279-1294.	1.1	76
81	Light-Driven Cytochrome P450 Hydroxylations. ACS Chemical Biology, 2011, 6, 533-539.	3.4	76
82	Oxidation and cyclization of casbene in the biosynthesis of <i>Euphorbia</i> factors from mature seeds of <i>Euphorbia lathyris</i> L.. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5082-9.	7.1	76
83	Redirecting Photosynthetic Electron Flow into Light-Driven Synthesis of Alternative Products Including High-Value Bioactive Natural Compounds. ACS Synthetic Biology, 2014, 3, 1-12.	3.8	74
84	Title is missing!. Photosynthesis Research, 1999, 60, 75-86.	2.9	73
85	Cyanogenic glucosides in the biological warfare between plants and insects: The Burnet moth-Birdsfoot trefoil model system. Phytochemistry, 2011, 72, 1585-1592.	2.9	73
86	The 110-kDa reaction center protein of photosystem I, P700-chlorophyll a-protein 1, is an iron-sulfur protein.. Journal of Biological Chemistry, 1986, 261, 14292-14300.	3.4	73
87	Photoinhibition of Photosystem I in field-grown barley (Hordeum vulgare L.): Induction, recovery and acclimation. Photosynthesis Research, 2000, 64, 53-61.	2.9	72
88	Structural, Physicochemical, and Pasting Properties of Starches from Potato Plants with Repressedr1-Geneâ€. Biomacromolecules, 2001, 2, 836-843.	5.4	72
89	Involvement of Cytochrome P-450 in the Biosynthesis of Dhurrin in <i>Sorghum bicolor</i> (L.) Moench. Plant Physiology, 1991, 96, 10-17.	4.8	70
90	Photosystem I polypeptides. Physiologia Plantarum, 1990, 78, 484-494.	5.2	69

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91	Biosynthesis of bioactive diterpenoids in the medicinal plant <i>Vitex agnusâ€castus</i>. Plant Journal, 2018, 93, 943-958.	5.7	68
92	The Multiple Strategies of an Insect Herbivore to Overcome Plant Cyanogenic Glucoside Defence. PLoS ONE, 2014, 9, e91337.	2.5	68
93	Import of barley photosystem I subunit N into the thylakoid lumen is mediated by a bipartite presequence lacking an intermediate processing site. Role of the delta pH in translocation across the thylakoid membrane. Journal of Biological Chemistry, 1994, 269, 3762-6.	3.4	68
94	Leucine-Derived Cyano Glucosides in Barley. Plant Physiology, 2002, 129, 1066-1075.	4.8	67
95	Fusion of Ferredoxin and Cytochrome P450 Enables Direct Light-Driven Biosynthesis. ACS Chemical Biology, 2016, 11, 1862-1869.	3.4	67
96	The biosynthesis of cyanogenic glucosides in higher plants. Journal of Biological Chemistry, 1989, 264, 19487-19494.	3.4	67
97	The biosynthesis of cyanogenic glucosides in higher plants. N-Hydroxytyrosine as an intermediate in the biosynthesis of dhurrin by Sorghum bicolor (Linn) Moench. Journal of Biological Chemistry, 1979, 254, 8575-83.	3.4	67
98	The cyanogenic glucoside composition of Zygaena filipendulae (Lepidoptera: Zygaenidae) as effected by feeding on wild-type and transgenic lotus populations with variable cyanogenic glucoside profiles. Insect Biochemistry and Molecular Biology, 2007, 37, 10-18.	2.7	66
99	Metabolic engineering of light-driven cytochrome P450 dependent pathways into Synechocystis sp. PCC 6803. Metabolic Engineering, 2016, 33, 1-11.	7.0	66
100	A membrane-bound monoheme cytochrome c551 of a novel type is the immediate electron donor to P840 of the Chlorobium vibrioforme photosynthetic reaction center complex. Journal of Biological Chemistry, 1992, 267, 21139-45.	3.4	66
101	Comparative spectroscopic and rheological studies on crude and purified soluble barley and oat Î²-glucan preparations. Food Research International, 2010, 43, 2417-2424.	6.2	65
102	Diversification of an ancient theme: Hydroxynitrile glucosides. Phytochemistry, 2008, 69, 1507-1516.	2.9	64
103	Visualizing metabolite distribution and enzymatic conversion in plant tissues by desorption electrospray ionization mass spectrometry imaging. Plant Journal, 2013, 74, 1059-1071.	5.7	64
104	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. Analytical Chemistry, 2017, 89, 4540-4549.	6.5	64
105	Elucidation of the Amygdalin Pathway Reveals the Metabolic Basis of Bitter and Sweet Almonds (<i>Prunus dulcis</i>). Plant Physiology, 2018, 178, 1096-1111.	4.8	64
106	Two key polymorphisms in a newly discovered allele of theVitis vinifera TPS24gene are responsible for the production of the rotundone precursor Î±-guaiene. Journal of Experimental Botany, 2016, 67, 799-808.	4.8	62
107	454 pyrosequencing based transcriptome analysis of Zygaena filipendulae with focus on genes involved in biosynthesis of cyanogenic glucosides. BMC Genomics, 2009, 10, 574.	2.8	61
108	Effects of PEG-induced osmotic stress on growth and dhurrin levels of forage sorghum. Plant Physiology and Biochemistry, 2013, 73, 83-92.	5.8	61

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109	The 110-kDa reaction center protein of photosystem I, P700-chlorophyll a-protein 1, is an iron-sulfur protein. Journal of Biological Chemistry, 1986, 261, 14292-300.	3.4	61
110	Synthesis of Benzylglucosinolate in Tropaeolum majus L. (Isothiocyanates as Potent Enzyme) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	4.8	60
111	The <i>Î²</i>-Glucosidases Responsible for Bioactivation of Hydroxynitrile Glucosides in <i>Lotus japonicus</i> Â Â. Plant Physiology, 2008, 147, 1072-1091.	4.8	60
112	Characterization and expression profile of two UDPâ€glucosyltransferases, UGT85K4 and UGT85K5, catalyzing the last step in cyanogenic glucoside biosynthesis in cassava. Plant Journal, 2011, 68, 287-301.	5.7	60
113	Glutathione transferases catalyze recycling of autoâ€toxic cyanogenic glucosides in sorghum. Plant Journal, 2018, 94, 1109-1125.	5.7	60
114	Determination of Catalytic Key Amino Acids and UDP Sugar Donor Specificity of the Cyanohydrin Glycosyltransferase UGT85B1 from Sorghum bicolor. Molecular Modeling Substantiated by Site-Specific Mutagenesis and Biochemical Analyses. Plant Physiology, 2005, 139, 664-673.	4.8	59
115	Monitoring Shifts in the Conformation Equilibrium of the Membrane Protein Cytochrome P450 Reductase (POR) in Nanodiscs. Journal of Biological Chemistry, 2012, 287, 34596-34603.	3.4	59
116	Flavonoids in flowers of 16 KalanchoÃ« blossfeldiana varieties. Phytochemistry, 2005, 66, 2829-2835.	2.9	58
117	The biosynthetic gene cluster for the cyanogenic glucoside dhurrin in Sorghum bicolor contains its co-expressed vacuolar MATE transporter. Scientific Reports, 2016, 6, 37079.	3.3	58
118	Characterization of six putative photosystem I mutants in barley. Carlsberg Research Communications, 1980, 45, 315-328.	1.8	57
119	Cloning and Expression of Cytochrome P450 Enzymes Catalyzing the Conversion of Tyrosine to p-Hydroxyphenylacetaldoxime in the Biosynthesis of Cyanogenic Glucosides in Triglochin maritima. Plant Physiology, 2000, 122, 1311-1322.	4.8	57
120	Transfer of the cytochrome P450-dependent dhurrin pathway from<i>Sorghum bicolor</i>into<i>Nicotiana tabacum</i>chloroplasts for light-driven synthesis. Journal of Experimental Botany, 2016, 67, 2495-2506.	4.8	57
121	Dynamic metabolic solutions to the sessile life style of plants. Natural Product Reports, 2018, 35, 1140-1155.	10.3	57
122	Dhurrin metabolism in the developing grain of Sorghum bicolor (L.) Moench investigated by metabolite profiling and novel clustering analyses of time-resolved transcriptomic data. BMC Genomics, 2016, 17, 1021.	2.8	56
123	Subunit Composition of Photosystem I and Identification of Center X as a [4Fe-4S] Iron-Sulfur Cluster. Journal of Biological Chemistry, 1989, 264, 6929-6934.	3.4	56
124	A cDNA clone encoding a 10.8 kDa photosystem I polypeptide of barley. FEBS Letters, 1988, 237, 108-112.	2.8	55
125	Intimate roles for cyanogenic glucosides in the life cycle of Zygaena filipendulae (Lepidoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.7	55
126	Single Molecule Activity Measurements of Cytochrome P450 Oxidoreductase Reveal the Existence of Two Discrete Functional States. ACS Chemical Biology, 2014, 9, 630-634.	3.4	55

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127	The biosynthesis of cyanogenic glucosides in roots of cassava. Phytochemistry, 1995, 39, 323-326.	2.9	54
128	Identification of PTP1B and Î±-Glucosidase Inhibitory Serrulatanes from <i>Eremophila</i> spp. by Combined use of Dual High-Resolution PTP1B and Î±-Glucosidase Inhibition Profiling and HPLC-HRMS-SPE-NMR. Journal of Natural Products, 2016, 79, 1063-1072.	3.0	54
129	Analysis of starch-bound glucose 3-phosphate and glucose 6-phosphate using controlled acid treatment combined with high-performance anion-exchange chromatography. Journal of Chromatography A, 1998, 829, 385-391.	3.7	53
130	Hydroxynitrile glucosides. Phytochemistry, 2008, 69, 1947-1961.	2.9	53
131	Improved cloning and expression of cytochrome P450s and cytochrome P450 reductase in yeast. Protein Expression and Purification, 2007, 56, 121-127.	1.3	52
132	Cyanogenic Glucosides and Derivatives in Almond and Sweet Cherry Flower Buds from Dormancy to Flowering. Frontiers in Plant Science, 2017, 8, 800.	3.6	52
133	The primary structure of a 4.0-kDa photosystem I polypeptide encoded by the chloroplast psaI gene. Journal of Biological Chemistry, 1989, 264, 18402-18406.	3.4	52
134	Chemical synthesis of 6â€²-Î±-maltosyl-maltotriose, a branched oligosaccharide representing the branch point of starch. Carbohydrate Research, 1995, 277, 109-123.	2.3	51
135	Reconfigured Cyanogenic Glucoside Biosynthesis in <i>Eucalyptus cladocalyx</i> Involves a Cytochrome P450 CYP706C55. Plant Physiology, 2018, 178, 1081-1095.	4.8	51
136	High-resolution PTP1B inhibition profiling combined with high-performance liquid chromatographyâ€"high-resolution mass spectrometryâ€"solid-phase extractionâ€"nuclear magnetic resonance spectroscopy: Proof-of-concept and antidiabetic constituents in crude extract of Eremophila lucida. FÃ¬toterapÃ¬Ã¢, 2016, 110, 52-58.	2.2	50
137	The primary structure of a 4.0-kDa photosystem I polypeptide encoded by the chloroplast psaI gene. Journal of Biological Chemistry, 1989, 264, 18402-6.	3.4	49
138	The biosynthesis of cyanogenic glucosides in higher plants. The (E)- and (Z)-isomers of p-hydroxyphenylacetaldehyde oxime as intermediates in the biosynthesis of dhurrin in Sorghum bicolor (L.) Moench. Journal of Biological Chemistry, 1989, 264, 19487-94.	3.4	49
139	Reconstitution of Barley Photosystem I with Modified PSI-C Allows Identification of Domains Interacting with PSI-D and PSI-A/B. Journal of Biological Chemistry, 1996, 271, 8996-9001.	3.4	48
140	Chemical control of flowering time. Journal of Experimental Botany, 2016, 68, erw427.	4.8	48
141	Precursors of one integral and five lumenal thylakoid proteins are imported by isolated pea and barley thylakoids: optimisation of in vitro assays. Plant Molecular Biology, 1993, 23, 717-725.	3.9	47
142	Synthetic Biology of Cannabinoids and Cannabinoid Glucosides in <i>Nicotiana benthamiana</i> and <i>Saccharomyces cerevisiae</i>. Journal of Natural Products, 2020, 83, 2877-2893.	3.0	46
143	Pigment and acyl lipid composition of photosystem I and II vesicles and of photosynthetic mutants in barley. Carlsberg Research Communications, 1983, 48, 131-148.	1.8	45
144	The bifurcation of the cyanogenic glucoside and glucosinolate biosynthetic pathways. Plant Journal, 2015, 84, 558-573.	5.7	45

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145	Apiose: one of nature's witty games. Glycobiology, 2016, 26, 430-442.	2.5	45
146	Toxic Moths: Source of a Truly Safe Delicacy. Journal of Ethnobiology, 2009, 29, 64-76.	2.1	44
147	Anchoring a Plant Cytochrome P450 via PsaM to the Thylakoids in Synechococcus sp. PCC 7002: Evidence for Light-Driven Biosynthesis. PLoS ONE, 2014, 9, e102184.	2.5	44
148	Subunit composition of photosystem I and identification of center X as a [4Fe-4S] iron-sulfur cluster. Journal of Biological Chemistry, 1989, 264, 6929-34.	3.4	44
149	A thylakoid polypeptide involved in the reconstitution of photosynthetic oxygen evolution. Carlsberg Research Communications, 1983, 48, 161-185.	1.8	43
150	Isolation and Reconstitution of the Heme-Thiolate Protein Obtusifoliol 14Î±-Demethylase from Sorghum bicolor (L.) Moench. Journal of Biological Chemistry, 1996, 271, 32944-32950.	3.4	43
151	A cDNA clone encoding the precursor for a 10.2 kDa photosystem I polypeptide of barley. FEBS Letters, 1989, 250, 575-579.	2.8	42
152	Molecular aspects of photosystem I. Physiologia Plantarum, 1997, 100, 842-851.	5.2	42
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