

Birger Lindberg MÅller

List of Publications by Year in descending order

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342
papers

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citations

8159

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17546

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. <i>Current Opinion in Plant Biology</i> , 2005, 8, 280-291.	3.5	476
2	Î ² -Glucosidases as detonators of plant chemical defense. <i>Phytochemistry</i> , 2008, 69, 1795-1813.	1.4	459
3	Cyanogenic Glycosides: Synthesis, Physiology, and Phenotypic Plasticity. <i>Annual Review of Plant Biology</i> , 2014, 65, 155-185.	8.6	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. <i>Plant Cell</i> , 2007, 19, 1473-1487.	3.1	332
5	De Novo Biosynthesis of Vanillin in Fission Yeast (<i>Schizosaccharomyces pombe</i>) and Baker's Yeast (<i>Saccharomyces cerevisiae</i>). <i>Applied and Environmental Microbiology</i> , 2009, 75, 2765-2774.	1.4	325
6	Cyanogenic glucosides and plant-insect interactions. <i>Phytochemistry</i> , 2004, 65, 293-306.	1.4	294
7	CYP704B1 Is a Long-Chain Fatty Acid-Hydroxylase Essential for Sporopollenin Synthesis in Pollen of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009, 151, 574-589.	2.3	280
8	Plant chemical defense: at what cost?. <i>Trends in Plant Science</i> , 2013, 18, 250-258.	4.3	277
9	Resistance to an Herbivore Through Engineered Cyanogenic Glucoside Synthesis. <i>Science</i> , 2001, 293, 1826-1828.	6.0	267
10	On the origin of family 1 plant glycosyltransferases. <i>Phytochemistry</i> , 2003, 62, 399-413.	1.4	261
11	Plant cytochromes P450: tools for pharmacology, plant protection and phytoremediation. <i>Current Opinion in Biotechnology</i> , 2003, 14, 151-162.	3.3	253
12	Vanillin-Bioconversion and Bioengineering of the Most Popular Plant Flavor and Its De Novo Biosynthesis in the Vanilla Orchid. <i>Molecular Plant</i> , 2015, 8, 40-57.	3.9	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. <i>Plant Physiology</i> , 2005, 139, 363-374.	2.3	232
14	Cassava genome from a wild ancestor to cultivated varieties. <i>Nature Communications</i> , 2014, 5, 5110.	5.8	230
15	Substrate specificity of plant UDP-dependent glycosyltransferases predicted from crystal structures and homology modeling. <i>Phytochemistry</i> , 2009, 70, 325-347.	1.4	226
16	Improved vanillin production in baker's yeast through in silico design. <i>Microbial Cell Factories</i> , 2010, 9, 84.	1.9	226
17	Characterization of a dynamic metabolon producing the defense compound dhurrin in sorghum. <i>Science</i> , 2016, 354, 890-893.	6.0	222
18	Cyanogenesis in plants and arthropods. <i>Phytochemistry</i> , 2008, 69, 1457-1468.	1.4	215

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19	Functional diversifications of cyanogenic glucosides. <i>Current Opinion in Plant Biology</i> , 2010, 13, 337-346.	3.5	210
20	Phytocannabinoids: Origins and Biosynthesis. <i>Trends in Plant Science</i> , 2020, 25, 985-1004.	4.3	195
21	Metabolic engineering of dhurrin in transgenic <i>Arabidopsis</i> plants with marginal inadvertent effects on the metabolome and transcriptome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1779-1784.	3.3	194
22	Chlorophyll-proteins of thylakoids from wild-type and mutants of barley (<i>Hordeum vulgare</i> L.). <i>Carlsberg Research Communications</i> , 1979, 44, 235-254.	1.7	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. <i>Journal of Experimental Botany</i> , 2015, 66, 1817-1832.	2.4	189
24	Cloning of three A-type cytochromes P450, CYP71E1, CYP98, and CYP99 from <i>Sorghum bicolor</i> (L.) Moench by a PCR approach and identification by expression in <i>Escherichia coli</i> of CYP71E1 as a multifunctional cytochrome P450 in the biosynthesis of the cyanogenic glucoside dhurrin. <i>Plant Molecular Biology</i> , 1998, 36, 393-405.	2.0	180
25	Cytochromes P-450 from Cassava (<i>Manihot esculenta</i> Crantz) Catalyzing the First Steps in the Biosynthesis of the Cyanogenic Glucosides Linamarin and Lotaustralin. <i>Journal of Biological Chemistry</i> , 2000, 275, 1966-1975.	1.6	177
26	Photosystem I Is an Early Target of Photoinhibition in Barley Illuminated at Chilling Temperatures ¹ . <i>Plant Physiology</i> , 1998, 116, 755-764.	2.3	172
27	The UDP-glucose:p-Hydroxymandelonitrile-O-Glucosyltransferase That Catalyzes the Last Step in Synthesis of the Cyanogenic Glucoside Dhurrin in <i>Sorghum bicolor</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 35483-35491.	1.6	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. <i>Plant Journal</i> , 2011, 68, 273-286.	2.8	162
29	Vanillin formation from ferulic acid in <i>Vanilla planifolia</i> is catalysed by a single enzyme. <i>Nature Communications</i> , 2014, 5, 4037.	5.8	157
30	The Metabolic Response of <i>Arabidopsis</i> 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. <i>Molecular Plant</i> , 2009, 2, 390-406.	3.9	155
31	Cytochrome P-450 ^{TYR} 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 <i>Sorghum bicolor</i> (L.) Moench. <i>Journal of Biological Chemistry</i> , 1995, 270, 3506-3511.	1.6	152
32	Plant NADPH-cytochrome P450 oxidoreductases. <i>Phytochemistry</i> , 2010, 71, 132-141.	1.4	152
33	Dhurrin Synthesis in <i>Sorghum</i> Is Regulated at the Transcriptional Level and Induced by Nitrogen Fertilization in Older Plants. <i>Plant Physiology</i> , 2002, 129, 1222-1231.	2.3	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. <i>Plant Physiology</i> , 1989, 90, 1552-1559.	2.3	149
35	Identification of a chloroplast-encoded 9-kDa polypeptide as a 2[4Fe-4S] protein carrying centers A and B of photosystem I.. <i>Journal of Biological Chemistry</i> , 1987, 262, 12676-12684.	1.6	143
36	The PSI-E subunit of photosystem I binds ferredoxin:NADP ⁺ oxidoreductase. <i>FEBS Letters</i> , 1992, 311, 169-173.	1.3	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. <i>Carbohydrate Research</i> , 1998, 307, 45-54.	1.1	139
38	The Primary Sequence of Cytochrome P450 ^{tyr} , the Multifunctional N-Hydroxylase Catalyzing the Conversion of L-Tyrosine to p-Hydroxyphenylacetaldehyde Oxime in the Biosynthesis of the Cyanogenic Glucoside Dhurrin in <i>Sorghum bicolor</i> (L.) Moench. <i>Archives of Biochemistry and Biophysics</i> , 1995, 323, 177-186.	1.4	136
39	Manoyl Oxide (13R), the Biosynthetic Precursor of Forskolin, Is Synthesized in Specialized Root Cork Cells in <i>Coleus forskohlii</i> . <i>Plant Physiology</i> , 2014, 164, 1222-1236.	2.3	135
40	Expanding the Landscape of Diterpene Structural Diversity through Stereochemically Controlled Combinatorial Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2142-2146.	7.2	134
41	Metabolon formation in dhurrin biosynthesis. <i>Phytochemistry</i> , 2008, 69, 88-98.	1.4	125
42	The distribution of covalently bound phosphate in the starch granule in relation to starch crystallinity. <i>International Journal of Biological Macromolecules</i> , 2000, 27, 211-218.	3.6	124
43	Plant cytochrome P450 plasticity and evolution. <i>Molecular Plant</i> , 2021, 14, 1244-1265.	3.9	124
44	Identification of a chloroplast-encoded 9-kDa polypeptide as a 2[4Fe-4S] protein carrying centers A and B of photosystem I. <i>Journal of Biological Chemistry</i> , 1987, 262, 12676-84.	1.6	123
45	Isolation and Reconstitution of Cytochrome P450 ^{ox} and in Vitro Reconstitution of the Entire Biosynthetic Pathway of the Cyanogenic Glucoside Dhurrin from <i>Sorghum</i> . <i>Plant Physiology</i> , 1997, 115, 1661-1670.	2.3	122
46	Cyanogenic glycosides: a case study for evolution and application of cytochromes P450. <i>Phytochemistry Reviews</i> , 2006, 5, 309-329.	3.1	122
47	Elliptical Structure of Phospholipid Bilayer Nanodiscs Encapsulated by Scaffold Proteins: Casting the Roles of the Lipids and the Protein. <i>Journal of the American Chemical Society</i> , 2010, 132, 13713-13722.	6.6	117
48	Mutation of a bHLH transcription factor allowed almond domestication. <i>Science</i> , 2019, 364, 1095-1098.	6.0	116
49	Dynamic Metabolons. <i>Science</i> , 2010, 330, 1328-1329.	6.0	115
50	Convergent evolution in biosynthesis of cyanogenic defence compounds in plants and insects. <i>Nature Communications</i> , 2011, 2, 273.	5.8	115
51	Bitterness in Almonds. <i>Plant Physiology</i> , 2008, 146, 1040-1052.	2.3	113
52	The biosynthesis of cyanogenic glucosides in higher plants. Channeling of intermediates in dhurrin biosynthesis by a microsomal system from <i>Sorghum bicolor</i> (L.) Moench. <i>Journal of Biological Chemistry</i> , 1980, 255, 3049-56.	1.6	113
53	Phenolic cross-links: building and de-constructing the plant cell wall. <i>Natural Product Reports</i> , 2020, 37, 919-961.	5.2	111
54	A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. <i>Biochemical Journal</i> , 2015, 469, 375-389.	1.7	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. <i>Plant Biotechnology Journal</i> , 2012, 10, 54-66.	4.1	106
56	Purification and Characterization of Recombinant Cytochrome P450TYR Expressed at High Levels in <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 1995, 322, 369-377.	1.4	105
57	Metabolic engineering of p-hydroxybenzylglucosinolate in <i>Arabidopsis</i> by expression of the cyanogenic CYP79A1 from <i>Sorghum bicolor</i> . <i>Plant Journal</i> , 1999, 20, 663-671.	2.8	105
58	Evolution of heteromeric nitrilase complexes in Poaceae with new functions in nitrile metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18848-18853.	3.3	100
59	Total biosynthesis of the cyclic AMP booster forskolin from <i>Coleus forskohlii</i> . <i>ELife</i> , 2017, 6, .	2.8	97
60	Starch Phosphorylation in Potato Tubers Proceeds Concurrently with de Novo Biosynthesis of Starch. <i>Plant Physiology</i> , 1994, 105, 111-117.	2.3	96
61	Substrate Specificity of the Cytochrome P450 Enzymes CYP79A1 and CYP71E1 Involved in the Biosynthesis of the Cyanogenic Glucoside Dhurrin in <i>Sorghum bicolor</i> (L.) Moench. <i>Archives of Biochemistry and Biophysics</i> , 1999, 363, 9-18.	1.4	96
62	Microbial production of next-generation stevia sweeteners. <i>Microbial Cell Factories</i> , 2016, 15, 207.	1.9	96
63	Conformational changes of the NADPH-dependent cytochrome P450 reductase in the course of electron transfer to cytochromes P450. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 132-138.	1.1	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. <i>Plant Physiology</i> , 2008, 148, 1295-1308.	2.3	93
65	First Principles Insight into the α -Glucan Structures of Starch: Their Synthesis, Conformation, and Hydration. <i>Chemical Reviews</i> , 2010, 110, 2049-2080.	23.0	92
66	The biosynthesis of cyanogenic glucosides in seedlings of cassava (<i>Manihot esculenta</i> Crantz). <i>Archives of Biochemistry and Biophysics</i> , 1992, 292, 141-150.	1.4	91
67	Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from <i>Chlamydomonas reinhardtii</i> . <i>Metabolic Engineering</i> , 2018, 49, 116-127.	3.6	91
68	Oximes: Unrecognized Chameleons in General and Specialized Plant Metabolism. <i>Molecular Plant</i> , 2018, 11, 95-117.	3.9	90
69	The in vitro substrate regiospecificity of recombinant UGT85B1, the cyanohydrin glucosyltransferase from <i>Sorghum bicolor</i> . <i>Phytochemistry</i> , 2003, 64, 143-151.	1.4	87
70	Plasticity of specialized metabolism as mediated by dynamic metabolons. <i>Trends in Plant Science</i> , 2015, 20, 20-32.	4.3	86
71	Transgenic Tobacco and <i>Arabidopsis</i> Plants Expressing the Two Multifunctional <i>Sorghum</i> Cytochrome P450 Enzymes, CYP79A1 and CYP71E1, Are Cyanogenic and Accumulate Metabolites Derived from Intermediates in Dhurrin Biosynthesis. <i>Plant Physiology</i> , 2000, 123, 1437-1448.	2.3	85
72	Active Oxygen Produced during Selective Excitation of Photosystem I Is Damaging Not Only to Photosystem I, But Also to Photosystem II. <i>Plant Physiology</i> , 2001, 125, 2007-2015.	2.3	85

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73	Redirecting Photosynthetic Reducing Power toward Bioactive Natural Product Synthesis. <i>ACS Synthetic Biology</i> , 2013, 2, 308-315.	1.9	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 <i>Sorghum bicolor</i> (L.) Moench.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 9740-9744.	3.3	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. <i>Plant Physiology</i> , 2011, 155, 282-292.	2.3	83
76	Polypeptide composition of an oxygen evolving photosystem II vesicle from spinach chloroplasts. <i>Carlsberg Research Communications</i> , 1981, 46, 227-242.	1.7	81
77	Transcriptome and Metabolite Changes during Hydrogen Cyanamide-Induced Floral Bud Break in Sweet Cherry. <i>Frontiers in Plant Science</i> , 2017, 8, 1233.	1.7	81
78	Granule-bound starch synthase I in isolated starch granules elongates malto-oligosaccharides processively. <i>Biochemical Journal</i> , 1999, 340, 183-191.	1.7	80
79	Starch molecular structure and phosphorylation investigated by a combined chromatographic and chemometric approach. <i>Carbohydrate Polymers</i> , 2000, 41, 163-174.	5.1	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. <i>Journal of Carbohydrate Chemistry</i> , 1995, 14, 1279-1294.	0.4	76
81	Light-Driven Cytochrome P450 Hydroxylations. <i>ACS Chemical Biology</i> , 2011, 6, 533-539.	1.6	76
82	Oxidation and cyclization of casbene in the biosynthesis of <i>Euphorbia</i> factors from mature seeds of <i>Euphorbia lathyris</i> L.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5082-9.	3.3	76
83	Redirecting Photosynthetic Electron Flow into Light-Driven Synthesis of Alternative Products Including High-Value Bioactive Natural Compounds. <i>ACS Synthetic Biology</i> , 2014, 3, 1-12.	1.9	74
84	Title is missing!. <i>Photosynthesis Research</i> , 1999, 60, 75-86.	1.6	73
85	Cyanogenic glucosides in the biological warfare between plants and insects: The Burnet moth-Birdsfoot trefoil model system. <i>Phytochemistry</i> , 2011, 72, 1585-1592.	1.4	73
86	The 110-kDa reaction center protein of photosystem I, P700-chlorophyll a-protein 1, is an iron-sulfur protein.. <i>Journal of Biological Chemistry</i> , 1986, 261, 14292-14300.	1.6	73
87	Photoinhibition of Photosystem I in field-grown barley (<i>Hordeum vulgare</i> L.): Induction, recovery and acclimation. <i>Photosynthesis Research</i> , 2000, 64, 53-61.	1.6	72
88	Structural, Physicochemical, and Pasting Properties of Starches from Potato Plants with Repressed <i>r1-Gene</i> . <i>Biomacromolecules</i> , 2001, 2, 836-843.	2.6	72
89	Involvement of Cytochrome P-450 in the Biosynthesis of Dhurrin in <i>Sorghum bicolor</i> (L.) Moench. <i>Plant Physiology</i> , 1991, 96, 10-17.	2.3	70
90	Photosystem I polypeptides. <i>Physiologia Plantarum</i> , 1990, 78, 484-494.	2.6	69

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91	Biosynthesis of bioactive diterpenoids in the medicinal plant <i>Vitex agnus-castus</i> . <i>Plant Journal</i> , 2018, 93, 943-958.	2.8	68
92	The Multiple Strategies of an Insect Herbivore to Overcome Plant Cyanogenic Glucoside Defence. <i>PLoS ONE</i> , 2014, 9, e91337.	1.1	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. <i>Journal of Biological Chemistry</i> , 1994, 269, 3762-6.	1.6	68
94	Leucine-Derived Cyano Glucosides in Barley. <i>Plant Physiology</i> , 2002, 129, 1066-1075.	2.3	67
95	Fusion of Ferredoxin and Cytochrome P450 Enables Direct Light-Driven Biosynthesis. <i>ACS Chemical Biology</i> , 2016, 11, 1862-1869.	1.6	67
96	The biosynthesis of cyanogenic glucosides in higher plants. <i>Journal of Biological Chemistry</i> , 1989, 264, 19487-19494.	1.6	67
97	The biosynthesis of cyanogenic glucosides in higher plants. N-Hydroxytyrosine as an intermediate in the biosynthesis of dhurrin by <i>Sorghum bicolor</i> (Linn) Moench. <i>Journal of Biological Chemistry</i> , 1979, 254, 8575-83.	1.6	67
98	The cyanogenic glucoside composition of <i>Zygaena filipendulae</i> (Lepidoptera: Zygaenidae) as effected by feeding on wild-type and transgenic lotus populations with variable cyanogenic glucoside profiles. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 10-18.	1.2	66
99	Metabolic engineering of light-driven cytochrome P450 dependent pathways into <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , 2016, 33, 1-11.	3.6	66
100	A membrane-bound monoheme cytochrome c551 of a novel type is the immediate electron donor to P840 of the <i>Chlorobium vibrioforme</i> photosynthetic reaction center complex. <i>Journal of Biological Chemistry</i> , 1992, 267, 21139-45.	1.6	66
101	Comparative spectroscopic and rheological studies on crude and purified soluble barley and oat Î²-glucan preparations. <i>Food Research International</i> , 2010, 43, 2417-2424.	2.9	65
102	Diversification of an ancient theme: Hydroxynitrile glucosides. <i>Phytochemistry</i> , 2008, 69, 1507-1516.	1.4	64
103	Visualizing metabolite distribution and enzymatic conversion in plant tissues by desorption electrospray ionization mass spectrometry imaging. <i>Plant Journal</i> , 2013, 74, 1059-1071.	2.8	64
104	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. <i>Analytical Chemistry</i> , 2017, 89, 4540-4549.	3.2	64
105	Elucidation of the Amygdalin Pathway Reveals the Metabolic Basis of Bitter and Sweet Almonds (<i>Prunus dulcis</i>). <i>Plant Physiology</i> , 2018, 178, 1096-1111.	2.3	64
106	Two key polymorphisms in a newly discovered allele of the <i>Vitis vinifera</i> TPS24 gene are responsible for the production of the rotundone precursor Î±-guaiene. <i>Journal of Experimental Botany</i> , 2016, 67, 799-808.	2.4	62
107	454 pyrosequencing based transcriptome analysis of <i>Zygaena filipendulae</i> with focus on genes involved in biosynthesis of cyanogenic glucosides. <i>BMC Genomics</i> , 2009, 10, 574.	1.2	61
108	Effects of PEG-induced osmotic stress on growth and dhurrin levels of forage sorghum. <i>Plant Physiology and Biochemistry</i> , 2013, 73, 83-92.	2.8	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. <i>Journal of Biological Chemistry</i> , 1986, 261, 14292-300.	1.6	61
110	Synthesis of Benzylglucosinolate in <i>Tropaeolum majus</i> L. (Isothiocyanates as Potent Enzyme) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.3	60
111	The β -Glucosidases Responsible for Bioactivation of Hydroxynitrile Glucosides in <i>Lotus japonicus</i> \hat{A} . <i>Plant Physiology</i> , 2008, 147, 1072-1091.	2.3	60
112	Characterization and expression profile of two UDP-glucosyltransferases, UGT85K4 and UGT85K5, catalyzing the last step in cyanogenic glucoside biosynthesis in cassava. <i>Plant Journal</i> , 2011, 68, 287-301.	2.8	60
113	Glutathione transferases catalyze recycling of auto-toxic cyanogenic glucosides in sorghum. <i>Plant Journal</i> , 2018, 94, 1109-1125.	2.8	60
114	Determination of Catalytic Key Amino Acids and UDP Sugar Donor Specificity of the Cyanohydrin Glycosyltransferase UGT85B1 from <i>Sorghum bicolor</i> . Molecular Modeling Substantiated by Site-Specific Mutagenesis and Biochemical Analyses. <i>Plant Physiology</i> , 2005, 139, 664-673.	2.3	59
115	Monitoring Shifts in the Conformation Equilibrium of the Membrane Protein Cytochrome P450 Reductase (POR) in Nanodiscs. <i>Journal of Biological Chemistry</i> , 2012, 287, 34596-34603.	1.6	59
116	Flavonoids in flowers of 16 <i>Kalanchoe blossfeldiana</i> varieties. <i>Phytochemistry</i> , 2005, 66, 2829-2835.	1.4	58
117	The biosynthetic gene cluster for the cyanogenic glucoside dhurrin in <i>Sorghum bicolor</i> contains its co-expressed vacuolar MATE transporter. <i>Scientific Reports</i> , 2016, 6, 37079.	1.6	58
118	Characterization of six putative photosystem I mutants in barley. <i>Carlsberg Research Communications</i> , 1980, 45, 315-328.	1.7	57
119	Cloning and Expression of Cytochrome P450 Enzymes Catalyzing the Conversion of Tyrosine to p-Hydroxyphenylacetaldoxime in the Biosynthesis of Cyanogenic Glucosides in <i>Triglochin maritima</i> . <i>Plant Physiology</i> , 2000, 122, 1311-1322.	2.3	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. <i>Journal of Experimental Botany</i> , 2016, 67, 2495-2506.	2.4	57
121	Dynamic metabolic solutions to the sessile life style of plants. <i>Natural Product Reports</i> , 2018, 35, 1140-1155.	5.2	57
122	Dhurrin metabolism in the developing grain of <i>Sorghum bicolor</i> (L.) Moench investigated by metabolite profiling and novel clustering analyses of time-resolved transcriptomic data. <i>BMC Genomics</i> , 2016, 17, 1021.	1.2	56
123	Subunit Composition of Photosystem I and Identification of Center X as a [4Fe-4S] Iron-Sulfur Cluster. <i>Journal of Biological Chemistry</i> , 1989, 264, 6929-6934.	1.6	56
124	A cDNA clone encoding a 10.8 kDa photosystem I polypeptide of barley. <i>FEBS Letters</i> , 1988, 237, 108-112.	1.3	55
125	Intimate roles for cyanogenic glucosides in the life cycle of <i>Zygaena filipendulae</i> (Lepidoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 55	1.2	55
126	Single Molecule Activity Measurements of Cytochrome P450 Oxidoreductase Reveal the Existence of Two Discrete Functional States. <i>ACS Chemical Biology</i> , 2014, 9, 630-634.	1.6	55

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127	The biosynthesis of cyanogenic glucosides in roots of cassava. <i>Phytochemistry</i> , 1995, 39, 323-326.	1.4	54
128	Identification of PTP1B and β -Glucosidase Inhibitory Serrulatanes from <i>Eremophila</i> spp. by Combined use of Dual High-Resolution PTP1B and β -Glucosidase Inhibition Profiling and HPLC-HRMS-SPE-NMR. <i>Journal of Natural Products</i> , 2016, 79, 1063-1072.	1.5	54
129	Analysis of starch-bound glucose 3-phosphate and glucose 6-phosphate using controlled acid treatment combined with high-performance anion-exchange chromatography. <i>Journal of Chromatography A</i> , 1998, 829, 385-391.	1.8	53
130	Hydroxynitrile glucosides. <i>Phytochemistry</i> , 2008, 69, 1947-1961.	1.4	53
131	Improved cloning and expression of cytochrome P450s and cytochrome P450 reductase in yeast. <i>Protein Expression and Purification</i> , 2007, 56, 121-127.	0.6	52
132	Cyanogenic Glucosides and Derivatives in Almond and Sweet Cherry Flower Buds from Dormancy to Flowering. <i>Frontiers in Plant Science</i> , 2017, 8, 800.	1.7	52
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