Birger Lindberg MÃ¸ller

List of Publications by Year
in descending order

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342 papers	20,360 citations	8159 76 h-index	17546 121 g-index
361 all docs	361 docs citations	361 times ranked	14675 citing authors

#	Article	IF	Citations
1	Isolation and structure elucidation of caryophyllane sesquiterpenoids from leaves of Eremophila spathulata. Phytochemistry Letters, 2022, 47, 156-163.	0.6	6
2	Serrulatane diterpenoids from the leaves of Eremophila glabra and their potential as antihyperglycemic drug leads. Phytochemistry, 2022, 196, 113072.	1.4	10
3	Cyanogenesis in the Sorghum Genus: From Genotype to Phenotype. Genes, 2022, 13, 140.	1.0	7
4	Transcript profiles of wild and domesticated sorghum under water-stressed conditions and the differential impact on dhurrin metabolism. Planta, 2022, 255, 51.	1.6	2
5	Circular biomanufacturing through harvesting solar energy and CO2. Trends in Plant Science, 2022, 27, 655-673.	4.3	18
6	Metabolons and bio-condensates: The essence of plant plasticity and the key elements in development of green production systems. Advances in Botanical Research, 2021, , 185-223.	0.5	3
7	Variation in production of cyanogenic glucosides during early plant development: A comparison of wild and domesticated sorghum. Phytochemistry, 2021, 184, 112645.	1.4	16
8	Biased cytochrome P450-mediated metabolism via small-molecule ligands binding P450 oxidoreductase. Nature Communications, 2021, 12, 2260.	5.8	34
9	Phylogenetic relationships in the Sorghum genus based on sequencing of the chloroplast and nuclear genes. Plant Genome, 2021, 14, e20123.	1.6	13
10	Plant cytochrome P450 plasticity and evolution. Molecular Plant, 2021, 14, 1244-1265.	3.9	124
11	Navigating through chemical space and evolutionary time across the Australian continent in plant genus Eremophila. Plant Journal, 2021, 108, 555-578.	2.8	13
12	Regulation of dhurrin pathway gene expression during SorghumÂbicolor development. Planta, 2021, 254, 119.	1.6	9
13	Crop wild relatives as a genetic resource for generating low-cyanide, drought-tolerant Sorghum. Environmental and Experimental Botany, 2020, 169, 103884.	2.0	28
14	Stabilization of dhurrin biosynthetic enzymes from Sorghum bicolor using a natural deep eutectic solvent. Phytochemistry, 2020, 170, 112214.	1.4	22
15	Synthetic Biology of Cannabinoids and Cannabinoid Glucosides in Nicotiana benthamiana and Saccharomyces cerevisiae. Journal of Natural Products, 2020, 83, 2877-2893.	1.5	46
16	The entangled dynamics of eucalypt leaf and flower volatile emissions. Environmental and Experimental Botany, 2020, 176, 104032.	2.0	10
17	Phytocannabinoids: Origins and Biosynthesis. Trends in Plant Science, 2020, 25, 985-1004.	4.3	195
18	Isolation, structure elucidation and PTP1B inhibitory activity of serrulatane diterpenoids from the roots of Myoporum insulare. Phytochemistry Letters, 2020, 39, 49-56.	0.6	13

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19	Biosynthesis of cyanogenic glucosides in Phaseolus lunatus and the evolution of oximeâ€based defenses. Plant Direct, 2020, 4, e00244.	0.8	16
20	A flavin-dependent monooxygenase catalyzes the initial step in cyanogenic glycoside synthesis in ferns. Communications Biology, 2020, 3, 507.	2.0	20
21	First-principles identification of C-methyl-scyllo-inositol (mytilitol) â€“ A new species-specific metabolite indicator of geographic origin for marine bivalve molluscs (Mytilus and Ruditapes spp.). Food Chemistry, 2020, 328, 126959.	4.2	7
22	Nerylneryl diphosphate is the precursor of serrulatane, viscidane and cembrane-type diterpenoids in Eremophila species. BMC Plant Biology, 2020, 20, 91.	1.6	21
23	Phenolic cross-links: building and de-constructing the plant cell wall. Natural Product Reports, 2020, 37, 919-961.	5.2	111
24	PTP1B-Inhibiting Branched-Chain Fatty Acid Dimers from Eremophila oppositifolia subsp. angustifolia Identified by High-Resolution PTP1B Inhibition Profiling and HPLC-PDA-HRMS-SPE-NMR Analysis. Journal of Natural Products, 2020, 83, 1598-1610.	1.5	21
25	Phytochemistry and bioactivity of Acacia sensu stricto (Fabaceae: Mimosoideae). Phytochemistry Reviews, 2019, 18, 129-172.	3.1	9
26	Amylopectin Chain Length Dynamics and Activity Signatures of Key Carbon Metabolic Enzymes Highlight Early Maturation as Culprit for Yield Reduction of Barley Endosperm Starch after Heat Stress. Plant and Cell Physiology, 2019, 60, 2692-2706.	1.5	12
27	2(5H)-Furanone sesquiterpenes from Eremophila bignoniiflora: High-resolution inhibition profiling and PTP1B inhibitory activity. Phytochemistry, 2019, 166, 112054.	1.4	23
28	Mutation of a bHLH transcription factor allowed almond domestication. Science, 2019, 364, 1095-1098.	6.0	116
29	Defining optimal electron transfer partners for light-driven cytochrome P450 reactions. Metabolic Engineering, 2019, 55, 33-43.	3.6	24
30	Classification of barley U-box E3 ligases and their expression patterns in response to drought and pathogen stresses. BMC Genomics, 2019, 20, 326.	1.2	37
31	Deletion of biosynthetic genes, specific SNP patterns and differences in transcript accumulation cause variation in hydroxynitrile glucoside content in barley cultivars. Scientific Reports, 2019, 9, 5730.	1.6	6
32	The Interplay Between Water Limitation, Dhurrin, and Nitrate in the Low-Cyanogenic Sorghum Mutant adult cyanide deficient class 1. Frontiers in Plant Science, 2019, 10, 1458.	1.7	17
33	Glutathione transferases catalyze recycling of autoâ€toxic cyanogenic glucosides in sorghum. Plant Journal, 2018, 94, 1109-1125.	2.8	60
34	Label-free Raman hyperspectral imaging analysis localizes the cyanogenic glucoside dhurrin to the cytoplasm in sorghum cells. Scientific Reports, 2018, 8, 2691.	1.6	22
35	Oximes: Unrecognized Chameleons in General and Specialized Plant Metabolism. Molecular Plant, 2018, 11, 95-117.	3.9	90
36	Î²-Glucosidase activity in almond seeds. Plant Physiology and Biochemistry, 2018, 126, 163-172.	2.8	35

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37	Biosynthesis of bioactive diterpenoids in the medicinal plant Vitex agnusâ€castus. Plant Journal, 2018, 93, 943-958.	2.8	68
38	The Intracellular Localization of the Vanillin Biosynthetic Machinery in Pods of Vanilla planifolia. Plant and Cell Physiology, 2018, 59, 304-318.	1.5	39
39	Diurnal regulation of cyanogenic glucoside biosynthesis and endogenous turnover in cassava. Plant Direct, 2018, 2, e00038.	0.8	25
40	Direct observation of multiple conformational states in Cytochrome P450 oxidoreductase and their modulation by membrane environment and ionic strength. Scientific Reports, 2018, 8, 6817.	1.6	31
41	Cutting edges and weaving threads in the gene editing (Ð¯)evolution: reconciling scientific progress with legal, ethical, and social concerns. Journal of Law and the Biosciences, 2018, 5, 35-83.	0.8	20
42	Biological activity and LC-MS/MS profiling of extracts from the Australian medicinal plantAcacia ligulata(Fabaceae). Natural Product Research, 2018, 32, 576-581.	1.0	5
43	Vanilla: The Most Popular Flavour. , 2018, , 3-24.		29
44	Dynamic metabolic solutions to the sessile life style of plants. Natural Product Reports, 2018, 35, 1140-1155.	5.2	57
45	Engineering of CYP76AH15 can improve activity and specificity towards forskolin biosynthesis in yeast. Microbial Cell Factories, 2018, 17, 181.	1.9	38
46	Elucidation of the Amygdalin Pathway Reveals the Metabolic Basis of Bitter and Sweet Almonds (Prunus dulcis). Plant Physiology, 2018, 178, 1096-1111.	2.3	64
47	Reconfigured Cyanogenic Glucoside Biosynthesis in Eucalyptus cladocalyx Involves a Cytochrome P450 CYP706C55. Plant Physiology, 2018, 178, 1081-1095.	2.3	51
48	Mass Spectrometry Based Imaging of Labile Glucosides in Plants. Frontiers in Plant Science, 2018, 9, 892.	1.7	17
49	Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from Chlamydomonas reinhardtii. Metabolic Engineering, 2018, 49, 116-127.	3.6	91
50	Heterologous production of the widely used natural food colorant carminic acid in Aspergillus nidulans. Scientific Reports, 2018, 8, 12853.	1.6	35
51	Cyanogenesis in Arthropods: From Chemical Warfare to Nuptial Gifts. Insects, 2018, 9, 51.	1.0	39
52	Counting the costs: nitrogen partitioning in Sorghum mutants. Functional Plant Biology, 2018, 45, 705.	1.1	24
53	The CYP79A1 catalyzed conversion of tyrosine to (E)-p-hydroxyphenylacetaldoxime unravelled using an improved method for homology modeling. Phytochemistry, 2017, 135, 8-17.	1.4	8
54	De-bugging and maximizing plant cytochrome P450 production in Escherichia coli with C-terminal GFP fusions. Applied Microbiology and Biotechnology, 2017, 101, 4103-4113.	1.7	13

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55	Spatial analysis of root hemiparasitic shrubs and their hosts: a search for spatial signatures of above- and below-ground interactions. Plant Ecology, 2017, 218, 185-196.	0.7	4
56	Assembly of Dynamic P450-Mediated Metabolonsâ€"Order Versus Chaos. Current Molecular Biology Reports, 2017, 3, 37-51.	0.8	42
57	Chemical Synthesis of Lâ€Fucose Derivatives for Acceptor Specificity Characterisation of Plant Cell Wall Glycosyltransferases. ChemistrySelect, 2017, 2, 997-1007.	0.7	0
58	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. Analytical Chemistry, 2017, 89, 4540-4549.	3.2	64
59	Isolation and Structural Characterization of Echinocystic Acid Triterpenoid Saponins from the Australian Medicinal and Food Plant Acacia ligulata. Journal of Natural Products, 2017, 80, 2692-2698.	1.5	15
60	Spatial separation of the cyanogenic Î²-glucosidase ZfBGD2 and cyanogenic glucosides in the haemolymph ofZygaenalarvae facilitates cyanide release. Royal Society Open Science, 2017, 4, 170262.	1.1	20
61	Synthesis of Câ€Glucosylated Octaketide Anthraquinones in Nicotiana benthamiana by Using a Multispeciesâ€Based Biosynthetic Pathway. ChemBioChem, 2017, 18, 1893-1897.	1.3	24
62	Characterization of a membrane-bound C-glucosyltransferase responsible for carminic acid biosynthesis in Dactylopius coccus Costa. Nature Communications, 2017, 8, 1987.	5.8	15
63	An expression tag toolbox for microbial production of membrane bound plant cytochromes P450. Biotechnology and Bioengineering, 2017, 114, 751-760.	1.7	19
64	Degradation of lignin Î²â€aryl ether units in Arabidopsis thaliana expressing LigD, LigF and LigG from Sphingomonas paucimobilis <scp>SYK</scp>â€6. Plant Biotechnology Journal, 2017, 15, 581-593.	4.1	29
65	Cyanogenic Glucosides and Derivatives in Almond and Sweet Cherry Flower Buds from Dormancy to Flowering. Frontiers in Plant Science, 2017, 8, 800.	1.7	52
66	Total biosynthesis of the cyclic AMP booster forskolin from Coleus forskohlii. ELife, 2017, 6, .	2.8	97
67	Sunlight-driven Environmental Benign Production of Bioactive Natural Products with Focus on Diterpenoids and the Pathways Involved in their Formation. Chimia, 2017, 71, 851.	0.3	4
68	Transcriptome and Metabolite Changes during Hydrogen Cyanamide-Induced Floral Bud Break in Sweet Cherry. Frontiers in Plant Science, 2017, 8, 1233.	1.7	81
69	Biosynthesis of the leucine derived Î±â€; Î²â€•and Î³â€hydroxynitrile glucosides in barley (Hordeum vulgare) Tj ETQq1 1 0.784314	2.8	35
70	Application of nanodisc technology for direct electrochemical investigation of plant cytochrome P450s and their NADPH P450 oxidoreductase. Scientific Reports, 2016, 6, 29459.	1.6	17
71	Microbial production of next-generation stevia sweeteners. Microbial Cell Factories, 2016, 15, 207.	1.9	96
72	Chemical control of flowering time. Journal of Experimental Botany, 2016, 68, erw427.	2.4	48

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73	Expanding the Landscape of Diterpene Structural Diversity through Stereochemically Controlled Combinatorial Biosynthesis. Angewandte Chemie, 2016, 128, 2182-2186.	1.6	17
74	Metabolic consequences of knocking outUGT85B1, the gene encoding the glucosyltransferase required for synthesis of dhurrin inSorghum bicolor(L. Moench). Plant and Cell Physiology, 2016, 57, 373-386.	1.5	34
75	Fusion of Ferredoxin and Cytochrome P450 Enables Direct Light-Driven Biosynthesis. ACS Chemical Biology, 2016, 11, 1862-1869.	1.6	67
76	Oxidation and cyclization of casbene in the biosynthesis of Euphorbia factors from mature seeds of Euphorbia lathyris L.. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5082-9.	3.3	76
77	The biosynthetic gene cluster for the cyanogenic glucoside dhurrin in Sorghum bicolor contains its co-expressed vacuolar MATE transporter. Scientific Reports, 2016, 6, 37079.	1.6	58
78	Characterization of a dynamic metabolon producing the defense compound dhurrin in sorghum. Science, 2016, 354, 890-893.	6.0	222
79	Lepidopteran defence droplets - a composite physical and chemical weapon against potential predators. Scientific Reports, 2016, 6, 22407.	1.6	20
80	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.	1.2	56
81	Expanding the Landscape of Diterpene Structural Diversity through Stereochemically Controlled Combinatorial Biosynthesis. Angewandte Chemie - International Edition, 2016, 55, 2142-2146.	7.2	134
82	Transfer of the cytochrome P450-dependent dhurrin pathway fromSorghum bicolorintoNicotiana tabacumchloroplasts for light-driven synthesis. Journal of Experimental Botany, 2016, 67, 2495-2506.	2.4	57
83	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.	1.1	50
84	Links of Conformational Sampling to Functional Plasticity and Clinical Phenotypes by Single Molecule Studies. Biophysical Journal, 2016, 110, 397a.	0.2	0
85	Apiose: one of nature's witty games. Glycobiology, 2016, 26, 430-442.	1.3	45
86	Identification of PTP1B and Î±-Glucosidase Inhibitory Serrulatanes from Eremophila 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.	1.5	54
87	General and Stereocontrolled Approach to the Chemical Synthesis of Naturally Occurring Cyanogenic Glucosides. Journal of Natural Products, 2016, 79, 1198-1202.	1.5	27
88	Metabolic engineering of light-driven cytochrome P450 dependent pathways into Synechocystis sp. PCC 6803. Metabolic Engineering, 2016, 33, 1-11.	3.6	66
89	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.	2.4	62
90	Synthetic plant biology: The ultimate way to 'go green'. Planta Medica, 2016, 81, S1-S381.	0.7	0

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91	Single Molecule Activity Measurements of Cytochrome P450 Oxidoreductase Reveal the Existence of Two Discrete Functional States. Biophysical Journal, 2015, 108, 224a-225a.	0.2	0
92	Volatiles from the burnet moth Zygaena filipendulae (Lepidoptera) and associated flowers, and their involvement in mating communication. Physiological Entomology, 2015, 40, 284-295.	0.6	14
93	The bifurcation of the cyanogenic glucoside and glucosinolate biosynthetic pathways. Plant Journal, 2015, 84, 558-573.	2.8	45
94	Diversified glucosinolate metabolism: biosynthesis of hydrogen cyanide and of the hydroxynitrile glucoside alliarinoside in relation to sinigrin metabolism in Alliaria petiolata. Frontiers in Plant Science, 2015, 6, 926.	1.7	23
95	A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. Biochemical Journal, 2015, 469, 375-389.	1.7	109
96	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.	3.9	234
97	Nanodisc Films for Membrane Protein Studies by Neutron Reflection: Effect of the Protein Scaffold Choice. Langmuir, 2015, 31, 8386-8391.	1.6	18
98	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.	2.4	189
99	Lotus japonicus flowers are defended by a cyanogenic Î²-glucosidase with highly restricted expression to essential reproductive organs. Plant Molecular Biology, 2015, 89, 21-34.	2.0	25
100	Scent emission profiles from Darwinâ€™s orchid â€“ Angraecum sesquipedale: Investigation of the aldoxime metabolism using clustering analysis. Phytochemistry, 2015, 120, 3-18.	1.4	12
101	Metabolism, excretion and avoidance of cyanogenic glucosides in insects with different feeding specialisations. Insect Biochemistry and Molecular Biology, 2015, 66, 119-128.	1.2	27
102	Plasticity of specialized metabolism as mediated by dynamic metabolons. Trends in Plant Science, 2015, 20, 20-32.	4.3	86
103	NMR characterization of chemically synthesized branched Î±-dextrin model compounds. Carbohydrate Research, 2015, 403, 149-156.	1.1	25
104	Assembly of Highly Standardized Gene Fragments for High-Level Production of Porphyrins in E. coli. ACS Synthetic Biology, 2015, 4, 274-282.	1.9	15
105	IDENTIFICATION AND CHARACTERIZATION OF PRUNASIN HYDROLASES IN SWEET AND BITTER ALMONDS AND THEIR EXPRESSION IN NICOTIANA BENTHAMIANA PLANTS. Acta Horticulturae, 2014, , 83-89.	0.1	2
106	Manoyl Oxide (13R), the Biosynthetic Precursor of Forskolin, Is Synthesized in Specialized Root Cork Cells in Coleus forskohlii. Plant Physiology, 2014, 164, 1222-1236.	2.3	135
107	Vanillin formation from ferulic acid in Vanilla planifolia is catalysed by a single enzyme. Nature Communications, 2014, 5, 4037.	5.8	157
108	Editorial overview: Synthetic plant biology: the roots of a bio-based society. Current Opinion in Biotechnology, 2014, 26, ix-xvi.	3.3	2

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109	Cyanogenic Glycosides: Synthesis, Physiology, and Phenotypic Plasticity. Annual Review of Plant Biology, 2014, 65, 155-185.	8.6	337
110	Single Molecule Activity Measurements of Cytochrome P450 Oxidoreductase Reveal the Existence of Two Discrete Functional States. ACS Chemical Biology, 2014, 9, 630-634.	1.6	55
111	Cassava genome from a wild ancestor to cultivated varieties. Nature Communications, 2014, 5, 5110.	5.8	230
112	Glucosinolate-Related Glucosides in Alliaria petiolata: Sources of Variation in the Plant and Different Metabolism in an Adapted Specialist Herbivore, Pieris rapae. Journal of Chemical Ecology, 2014, 40, 1063-1079.	0.9	23
113	Microbial Synthesis of the Forskolin Precursor Manoyl Oxide in an Enantiomerically Pure Form. Applied and Environmental Microbiology, 2014, 80, 7258-7265.	1.4	24
114	Redirecting Photosynthetic Electron Flow into Light-Driven Synthesis of Alternative Products Including High-Value Bioactive Natural Compounds. ACS Synthetic Biology, 2014, 3, 1-12.	1.9	74
115	Sequestration, tissue distribution and developmental transmission ofÂcyanogenic glucosides in a specialist insect herbivore. Insect Biochemistry and Molecular Biology, 2014, 44, 44-53.	1.2	35
116	The evolutionary appearance of nonâ€cyanogenic hydroxynitrile glucosides in the <scp>L</scp>otus genus is accompanied by the substrate specialization of paralogous Î²â€“glucosidases resulting from a crucial amino acid substitution. Plant Journal, 2014, 79, 299-311.	2.8	15
117	Synthesis of the allelochemical alliarinoside present in garlic mustard (Alliaria petiolata), an invasive plant species in North America. Carbohydrate Research, 2014, 394, 13-16.	1.1	5
118	Transcriptional regulation of de novo biosynthesis of cyanogenic glucosides throughout the life-cycle of the burnet moth Zygaena filipendulae (Lepidoptera). Insect Biochemistry and Molecular Biology, 2014, 49, 80-89.	1.2	19
119	Chapter 12. Disruptive innovation: channeling photosynthetic electron flow into light-driven synthesis of high-value products. Synthetic Biology, 2014, , 330-359.	0.2	5
120	The Multiple Strategies of an Insect Herbivore to Overcome Plant Cyanogenic Glucoside Defence. PLoS ONE, 2014, 9, e91337.	1.1	68
121	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.	1.1	44
122	Chemical Defense Balanced by Sequestration and De Novo Biosynthesis in a Lepidopteran Specialist. PLoS ONE, 2014, 9, e108745.	1.1	20
123	Antibacterial activity of crude extracts from Santalum spictatum and Acacia ligulata. Planta Medica, 2014, 80, .	0.7	0
124	Co-occurrence of cyanogenic glucosides and their derivatives as a common feature in metabolic profiles of almond and cassava. Planta Medica, 2014, 80, .	0.7	0
125	Effects of PEG-induced osmotic stress on growth and dhurrin levels of forage sorghum. Plant Physiology and Biochemistry, 2013, 73, 83-92.	2.8	61
126	Male-to-female transfer of 5-hydroxytryptophan glucoside during mating in Zygaena filipendulae (Lepidoptera). Insect Biochemistry and Molecular Biology, 2013, 43, 1037-1044.	1.2	12

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127	Redirecting Photosynthetic Reducing Power toward Bioactive Natural Product Synthesis. ACS Synthetic Biology, 2013, 2, 308-315.	1.9	85
128	Plant chemical defense: at what cost?. Trends in Plant Science, 2013, 18, 250-258.	4.3	277
129	Amphipol trapping of a functional CYP system. Biotechnology and Applied Biochemistry, 2013, 60, 119-127.	1.4	13
130	Comparative genomics analysis in <scp>P</scp>runoideae to identify biologically relevant polymorphisms. Plant Biotechnology Journal, 2013, 11, 883-893.	4.1	20
131	Homage to Professor Meinhart H. Zenk: Crowd accelerated research and innovation. Phytochemistry, 2013, 91, 20-28.	1.4	0
132	Visualizing metabolite distribution and enzymatic conversion in plant tissues by desorption electrospray ionization mass spectrometry imaging. Plant Journal, 2013, 74, 1059-1071.	2.8	64
133	Isolation of Monodisperse Nanodisc-Reconstituted Membrane Proteins Using Free Flow Electrophoresis. Analytical Chemistry, 2013, 85, 3497-3500.	3.2	19
134	Monitoring Shifts in the Conformation Equilibrium of the Membrane Protein Cytochrome P450 Reductase (POR) in Nanodiscs. Journal of Biological Chemistry, 2012, 287, 34596-34603.	1.6	59
135	Prunasin Hydrolases during Fruit Development in Sweet and Bitter Almonds Â Â Â. Plant Physiology, 2012, 158, 1916-1932.	2.3	40
136	Light-driven chemical synthesis. Trends in Plant Science, 2012, 17, 60-63.	4.3	25
137	A combined biochemical screen and TILLING approach identifies mutations in Sorghum bicolor L. Moench resulting in acyanogenic forage production. Plant Biotechnology Journal, 2012, 10, 54-66.	4.1	106
138	Possible evolution of alliarinoside biosynthesis from the glucosinolate pathway in Alliariaâ€ƒpetiolata. FEBS Journal, 2012, 279, 1545-1562.	2.2	18
139	Biosynthesis of rhodiocyanosides in Lotus japonicus: Rhodiocyanoside A is synthesized from (Z)-2-methylbutanaloxime via 2-methyl-2-butenenitrile. Phytochemistry, 2012, 77, 260-267.	1.4	27
140	Photosystem I from plants as a bacterial cytochrome P450 surrogate electron donor: terminal hydroxylation of branched hydrocarbon chains. Biotechnology Letters, 2012, 34, 239-245.	1.1	21
141	Light-Driven Cytochrome P450 Hydroxylations. ACS Chemical Biology, 2011, 6, 533-539.	1.6	76
142	Genomic clustering of cyanogenic glucoside biosynthetic genes aids their identification in Lotus japonicus and suggests the repeated evolution of this chemical defence pathway. Plant Journal, 2011, 68, 273-286.	2.8	162
143	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.	2.8	60
144	Cyanogenic glucosides in the biological warfare between plants and insects: The Burnet moth-Birdsfoot trefoil model system. Phytochemistry, 2011, 72, 1585-1592.	1.4	73

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145	Homology modeling of the three membrane proteins of the dhurrin metabolon: Catalytic sites, membrane surface association and proteinâ€“protein interactions. Phytochemistry, 2011, 72, 2113-2123.	1.4	34
146	Phenylalanine derived cyanogenic diglucosides from Eucalyptus camphora and their abundances in relation to ontogeny and tissue type. Phytochemistry, 2011, 72, 2325-2334.	1.4	41
147	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.	1.1	95
148	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.	2.3	83
149	Convergent evolution in biosynthesis of cyanogenic defence compounds in plants and insects. Nature Communications, 2011, 2, 273.	5.8	115
150	First Principles Insight into the Î±-Glucan Structures of Starch: Their Synthesis, Conformation, and Hydration. Chemical Reviews, 2010, 110, 2049-2080.	23.0	92
151	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.	6.6	117
152	Plant NADPH-cytochrome P450 oxidoreductases. Phytochemistry, 2010, 71, 132-141.	1.4	152
153	Functional diversifications of cyanogenic glucosides. Current Opinion in Plant Biology, 2010, 13, 337-346.	3.5	210
154	Dissipation of cyanogenic glucosides and cyanide in soil amended with white clover (Trifolium repens) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.2	9
155	Metabolomic, Transcriptional, Hormonal, and Signaling Cross-Talk in Superroot2. Molecular Plant, 2010, 3, 192-211.	3.9	38
156	Improved vanillin production in baker's yeast through in silico design. Microbial Cell Factories, 2010, 9, 84.	1.9	226
157	Comparative spectroscopic and rheological studies on crude and purified soluble barley and oat Î²-glucan preparations. Food Research International, 2010, 43, 2417-2424.	2.9	65
158	Dynamic Metabolons. Science, 2010, 330, 1328-1329.	6.0	115
159	CYP704B1 Is a Long-Chain Fatty AcidÏ‰-Hydroxylase Essential for Sporopollenin Synthesis in Pollen of Arabidopsis Â Â. Plant Physiology, 2009, 151, 574-589.	2.3	280
160	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.	3.9	155
161	De Novo Biosynthesis of Vanillin in Fission Yeast (Schizosaccharomyces pombe) and Baker's Yeast (Saccharomyces cerevisiae). Applied and Environmental Microbiology, 2009, 75, 2765-2774.	1.4	325
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