Carl Erik Olsen

List of Publications by Citations

356 papers	16,137 citations	65 h-index	108 g-index
380 ext. papers	18,182 ext. citations	5.5 avg, IF	6.26 L-index

#	Paper	IF	Citations
356	LNA (Locked Nucleic Acids): Synthesis of the adenine, cytosine, guanine, 5-methylcytosine, thymine and uracil bicyclonucleoside monomers, oligomerisation, and unprecedented nucleic acid recognition. *Tetrahedron*, **1998**, 54, 3607-3630	2.4	854
355	Successful herbivore attack due to metabolic diversion of a plant chemical defense. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 4859-64	11.5	375
354	Glucosinolate structures in evolution. *Phytochemistry*, **2012**, 77, 16-45	4	345
353	NRT/PTR transporters are essential for translocation of glucosinolate defence compounds to seeds. *Nature*, **2012**, 488, 531-4	50.4	312
352	Arabidopsis cytochrome P450 monooxygenase 71A13 catalyzes the conversion of indole-3-acetaldoxime in camalexin synthesis. *Plant Cell*, **2007**, 19, 2039-52	11.6	259
351	De novo biosynthesis of vanillin in fission yeast (Schizosaccharomyces pombe) and baker's yeast (Saccharomyces cerevisiae). *Applied and Environmental Microbiology*, **2009**, 75, 2765-74	4.8	250
350	Brain extracellular space during spreading depression and ischemia. *Acta Physiologica Scandinavica*, **1980**, 108, 355-65		247
349	Camalexin is synthesized from indole-3-acetaldoxime, a key branching point between primary and secondary metabolism in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 8245-50	11.5	240
348	Resistance to an herbivore through engineered cyanogenic glucoside synthesis. *Science*, **2001**, 293, 1826-8	33.3	230
347	O-glycosylated cell wall proteins are essential in root hair growth. *Science*, **2011**, 332, 1401-3	33.3	220
346	CYP71B15 (PAD3) catalyzes the final step in camalexin biosynthesis. *Plant Physiology*, **2006**, 141, 1248-54	6.6	197
345	Composition and content of glucosinolates in developing Arabidopsis thaliana. *Planta*, **2002**, 214, 562-71	4.7	190
344	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, 363-74	6.6	189
343	Reductive Dechlorination of Carbon Tetrachloride Using Iron(II) Iron(III) Hydroxide Sulfate (Green Rust). *Environmental Science & Technology*, **1999**, 33, 307-311	10.3	179
342	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, 1779-84	11.5	174
341	CYP83A1 and CYP83B1, two nonredundant cytochrome P450 enzymes metabolizing oximes in the biosynthesis of glucosinolates in Arabidopsis. *Plant Physiology*, **2003**, 133, 63-72	6.6	172
340	Characterization of a dynamic metabolon producing the defense compound dhurrin in sorghum. *Science*, **2016**, 354, 890-893	33.3	166

339	Microbial production of indolylglucosinolate through engineering of a multi-gene pathway in a versatile yeast expression platform. *Metabolic Engineering*, **2012**, 14, 104-11	9.7	157
338	Glucosinolate structural diversity, identification, chemical synthesis and metabolism in plants. *Phytochemistry*, **2020**, 169, 112100	4	150
337	Metabolic engineering in Nicotiana benthamiana reveals key enzyme functions in Arabidopsis indole glucosinolate modification. *Plant Cell*, **2011**, 23, 716-29	11.6	139
336	Long-distance phloem transport of glucosinolates in Arabidopsis. *Plant Physiology*, **2001**, 127, 194-201	6.6	134
335	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	14.4	133
334	Synthetic and biological activity evaluation studies on novel 1,3-diarylpropenones. *Bioorganic and Medicinal Chemistry*, **2001**, 9, 337-45	3.4	132
333	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, 273-86	6.9	130
332	Constituents of the yew trees. *Phytochemistry*, **1999**, 50, 1267-304	4	130
331	Cytochrome p450 CYP79F1 from arabidopsis catalyzes the conversion of dihomomethionine and trihomomethionine to the corresponding aldoximes in the biosynthesis of aliphatic glucosinolates. *Journal of Biological Chemistry*, **2001**, 276, 11078-85	5.4	125
330	Glucosinolate engineering identifies a gamma-glutamyl peptidase. *Nature Chemical Biology*, **2009**, 5, 575-7	11.7	122
329	CYP83b1 is the oxime-metabolizing enzyme in the glucosinolate pathway in Arabidopsis. *Journal of Biological Chemistry*, **2001**, 276, 24790-6	5.4	121
328	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	2.9	115
327	The Arabidopsis NPF3 protein is a GA transporter. *Nature Communications*, **2016**, 7, 11486	17.4	115
326	Vanillin formation from ferulic acid in Vanilla planifolia is catalysed by a single enzyme. *Nature Communications*, **2014**, 5, 4037	17.4	112
325	Seasonal variation in leaf glucosinolates and insect resistance in two types of Barbarea vulgaris ssp. arcuata. *Phytochemistry*, **2001**, 58, 91-100	4	112
324	The distribution of covalently bound phosphate in the starch granule in relation to starch crystallinity. *International Journal of Biological Macromolecules*, **2000**, 27, 211-8	7.9	111
323	Sequestration of host plant glucosinolates in the defensive hemolymph of the sawfly Athalia rosae. *Journal of Chemical Ecology*, **2001**, 27, 2505-16	2.7	110
322	Design, synthesis, and pharmacological evaluation of thapsigargin analogues for targeting apoptosis to prostatic cancer cells. *Journal of Medicinal Chemistry*, **2001**, 44, 4696-703	8.3	110

321	Integration of biosynthesis and long-distance transport establish organ-specific glucosinolate profiles in vegetative Arabidopsis. *Plant Cell*, **2013**, 25, 3133-45	11.6	109
320	Arabidopsis thaliana RGXT1 and RGXT2 encode Golgi-localized (1,3)-alpha-D-xylosyltransferases involved in the synthesis of pectic rhamnogalacturonan-II. *Plant Cell*, **2006**, 18, 2593-607	11.6	106
319	New anti-HIV-1, antimalarial, and antifungal compounds from Terminalia bellerica. *Journal of Natural Products*, **1997**, 60, 739-42	4.9	105
318	Chemotaxonomy of Plantago. Iridoid glucosides and caffeoyl phenylethanoid glycosides. *Phytochemistry*, **2000**, 55, 337-48	4	97
317	UDP-glycosyltransferases from the UGT73C subfamily in Barbarea vulgaris catalyze sapogenin 3-O-glucosylation in saponin-mediated insect resistance. *Plant Physiology*, **2012**, 160, 1881-95	6.6	96
316	Metabolic engineering of p-hydroxybenzylglucosinolate in Arabidopsis by expression of the cyanogenic CYP79A1 from Sorghum bicolor. *Plant Journal*, **1999**, 20, 663-71	6.9	95
315	Convergent evolution in biosynthesis of cyanogenic defence compounds in plants and insects. *Nature Communications*, **2011**, 2, 273	17.4	92
314	Cytosolic Eglutamyl peptidases process glutathione conjugates in the biosynthesis of glucosinolates and camalexin in Arabidopsis. *Plant Cell*, **2011**, 23, 2456-69	11.6	91
313	Polyphenols and alkaloids from piper species. *Phytochemistry*, **1998**, 49, 1069-1078	4	90
312	Biosynthesis of the nitrile glucosides rhodiocyanoside A and D and the cyanogenic glucosides lotaustralin and linamarin in Lotus japonicus. *Plant Physiology*, **2004**, 135, 71-84	6.6	90
311	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	11.6	89
310	Bitterness in almonds. *Plant Physiology*, **2008**, 146, 1040-52	6.6	89
309	Identification of defense compounds in Barbarea vulgaris against the herbivore Phyllotreta nemorum by an ecometabolomic approach. *Plant Physiology*, **2009**, 151, 1977-90	6.6	88
308	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, 18848-53	11.5	88
307	Initial and Final Products, Nitriles, and Ascorbigens Produced in Myrosinase-Catalyzed Hydrolysis of Indole Glucosinolates. *Journal of Agricultural and Food Chemistry*, **1998**, 46, 1563-1571	5.7	88
306	Cloning and expression in Escherichia coli of the obtusifoliol 14 alpha-demethylase of Sorghum bicolor (L.) Moench, a cytochrome P450 orthologous to the sterol 14 alpha-demethylases (CYP51) from fungi and mammals. *Plant Journal*, **1997**, 11, 191-201	6.9	85
305	Cytotoxic activity of some phenanthroindolizidine N-oxide alkaloids from Cynanchum vincetoxicum. *Journal of Natural Products*, **2000**, 63, 1584-6	4.9	83
304	The biosynthesis of cyanogenic glucosides in seedlings of cassava (Manihot esculenta Crantz). *Archives of Biochemistry and Biophysics*, **1992**, 292, 141-50	4.1	82

303	A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. *Biochemical Journal*, **2015**, 469, 375-89	3.8	79
302	A saponin correlated with variable resistance of Barbarea vulgaris to the diamondback moth Plutella xylostella. *Journal of Chemical Ecology*, **2003**, 29, 1417-33	2.7	79
301	The in vitro substrate regiospecificity of recombinant UGT85B1, the cyanohydrin glucosyltransferase from Sorghum bicolor. *Phytochemistry*, **2003**, 64, 143-51	4	79
300	Evaluation of the aroma composition of some strawberry (Fragaria ananassa Duch) cultivars by use of odour threshold values. *Zeitschrift Fur Lebensmittel-Untersuchung Und -Forschung*, **1992**, 195, 536-539		78
299	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part I: Dioxygenated 4-methyl coumarins as superb antioxidant and radical scavenging agents. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 833-9	3.4	74
298	Acylated flavonol glycosides from cabbage leaves. *Phytochemistry*, **1993**, 34, 539-44	4	74
297	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, 1295-308	6.6	71
296	Redirecting photosynthetic reducing power toward bioactive natural product synthesis. *ACS Synthetic Biology*, **2013**, 2, 308-15	5.7	69
295	Discrimination between freshly made and stored reconstituted orange juice using GC Odour Profiling and aroma values. *Food Chemistry*, **1998**, 61, 223-229	8.5	68
294	Thioacylation Achieved by Activation of a Monothiocarboxylic Acid with Phosphorus Reagents. *Journal of Organic Chemistry*, **1994**, 59, 1257-1263	4.2	68
293	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, 282-92	6.6	66
292	Natural products as starting materials for development of second-generation SERCA inhibitors targeted towards prostate cancer cells. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 2810-5	3.4	65
291	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, 1437-48	6.6	64
290	Towards engineering glucosinolates into non-cruciferous plants. *Planta*, **2009**, 229, 261-70	4.7	63
289	Physico-chemical Characterization of Floridean Starch of Red Algae. *Starch/Staerke*, **2002**, 54, 66-74	2.3	63
288	Antiprotozoal compounds from Asparagus africanus. *Journal of Natural Products*, **1997**, 60, 1017-22	4.9	62
287	A flavonoid 7-O-methyltransferase is expressed in barley leaves in response to pathogen attack. *Plant Molecular Biology*, **1998**, 36, 219-27	4.6	62
286	Synthesis and applications of novel bis(ammonium) chiral ionic liquids derived from isomannide. *Organic Letters*, **2007**, 9, 3905-8	6.2	62

285	Leucine-derived cyano glucosides in barley. *Plant Physiology*, **2002**, 129, 1066-75	6.6	61
284	Total biosynthesis of the cyclic AMP booster forskolin from. *ELife*, **2017**, 6,	8.9	60
283	Production of the cancer-preventive glucoraphanin in tobacco. *Molecular Plant*, **2010**, 3, 751-9	14.4	60
282	Diversification of an ancient theme: hydroxynitrile glucosides. *Phytochemistry*, **2008**, 69, 1507-16	4	60
281	Identification and genome organization of saponin pathway genes from a wild crucifer, and their use for transient production of saponins in Nicotiana benthamiana. *Plant Journal*, **2015**, 84, 478-90	6.9	58
280	Sinapis phylogeny and evolution of glucosinolates and specific nitrile degrading enzymes. *Phytochemistry*, **2008**, 69, 2937-49	4	57
279	A Novel Class of Oligonucleotide Analogues Containing 2ED,3EC-Linked [3.2.0]Bicycloarabinonucleoside Monomers: Synthesis, Thermal Affinity Studies, and Molecular Modeling. *Journal of the American Chemical Society*, **1998**, 120, 5458-5463	16.4	56
278	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, 664-73	6.6	55
277	Leishmanicidal, antiplasmodial and cytotoxic activity of indole alkaloids from Corynanthe pachyceras. *Planta Medica*, **2000**, 66, 531-6	3.1	55
276	Methods for the assay of 1,5-anhydro-d-fructose and -1,4-glucan lyase. *Carbohydrate Research*, **1997**, 305, 73-82	2.9	54
275	Microwave mediated synthesis of spiro-(indoline-isoxazolidines): mechanistic study and biological activity evaluation. *Tetrahedron*, **2005**, 61, 5687-5697	2.4	54
274	1,4-Dimethoxyglucobrassicin in Barbarea and 4-hydroxyglucobrassicin in Arabidopsis and Brassica. *Journal of Agricultural and Food Chemistry*, **2001**, 49, 1502-7	5.7	54
273	Genetic screening identifies cyanogenesis-deficient mutants of Lotus japonicus and reveals enzymatic specificity in hydroxynitrile glucoside metabolism. *Plant Cell*, **2010**, 22, 1605-19	11.6	52
272	Two new antiprotozoal 5-methylcoumarins from Vernonia brachycalyx. *Journal of Natural Products*, **1997**, 60, 458-61	4.9	52
271	The beta-glucosidases responsible for bioactivation of hydroxynitrile glucosides in Lotus japonicus. *Plant Physiology*, **2008**, 147, 1072-91	6.6	52
270	Novel carbohydrate-based chiral ammonium ionic liquids derived from isomannide. *Tetrahedron: Asymmetry*, **2008**, 19, 664-671		52
269	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, 10-8	4.5	52
268	Metabolic engineering of light-driven cytochrome P450 dependent pathways into Synechocystis sp. PCC 6803. *Metabolic Engineering*, **2016**, 33, 1-11	9.7	51

267	A Facile Synthesis of Novel Spiro- [Indole-pyrazolinyl-thiazolidine]-2,4?-dione. *Synthetic Communications*, **2003**, 33, 563-577	1.7	51
266	Isolation and quantification of cholesterol oxides in dairy products by selected ion monitoring mass spectrometry. *Journal of Dairy Research*, **1995**, 62, 101-13	1.6	50
265	Reduction of antinutritional glucosinolates in Brassica oilseeds by mutation of genes encoding transporters. *Nature Biotechnology*, **2017**, 35, 377-382	44.5	49
264	Effect of drought stress on content and composition of seed alkaloids in narrow-leafed lupin, Lupinus angustifolius L.. *European Journal of Agronomy*, **1997**, 7, 307-314	5	49
263	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	4.5	49
262	Origin and evolution of transporter substrate specificity within the NPF family. *ELife*, **2017**, 6,	8.9	48
261	Elucidating the role of transport processes in leaf glucosinolate distribution. *Plant Physiology*, **2014**, 166, 1450-62	6.6	48
260	Anti-invasive activity of alkaloids and polyphenolics in vitro. *Bioorganic and Medicinal Chemistry*, **1997**, 5, 1609-19	3.4	48
259	Asynchronous rhythms in the emission of volatiles from Hesperis matronalis flowers. *Phytochemistry*, **1995**, 38, 847-851	4	48
258	Chemical synthesis of 6N-alpha-maltosyl-maltotriose, a branched oligosaccharide representing the branch point of starch. *Carbohydrate Research*, **1995**, 277, 109-23	2.9	48
257	Chalcone inhibitors of the NorA efflux pump in Staphylococcus aureus whole cells and enriched everted membrane vesicles. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 4514-21	3.4	47
256	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part II: Mechanism-based inhibition of rat liver microsome-mediated aflatoxin B1-DNA binding by the candidate antimutagen 7,8-diacetoxy-4-methylcoumarin. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 1895-904	3.4	47
255	Emission of volatiles from flowers and leaves of Brassica napus in situ. *Phytochemistry*, **1994**, 37, 695-699	4	47
254	The terpene synthase gene family in Tripterygium wilfordii harbors a labdane-type diterpene synthase among the monoterpene synthase TPS-b subfamily. *Plant Journal*, **2017**, 89, 429-441	6.9	46
253	Characterization and expression profile of two UDP-glucosyltransferases, UGT85K4 and UGT85K5, catalyzing the last step in cyanogenic glucoside biosynthesis in cassava. *Plant Journal*, **2011**, 68, 287-301	6.9	46
252	Synthesis of 2?-O,3?-C-linked bicyclic nucleosides and bicyclic oligonucleotides. *Journal of the Chemical Society Perkin Transactions 1*, **1997**, 3423-3434		46
251	Intimate roles for cyanogenic glucosides in the life cycle of Zygaena filipendulae (Lepidoptera, Zygaenidae). *Insect Biochemistry and Molecular Biology*, **2007**, 37, 1189-97	4.5	46
250	Flavonoids in flowers of 16 Kalanchoë blossfeldiana varieties. *Phytochemistry*, **2005**, 66, 2829-35	4	46

249	Oxysporidinone: a novel, antifungal N-methyl-4-hydroxy-2-pyridone from Fusarium oxysporum. *Journal of Natural Products*, **1997**, 60, 33-5	4.9	45
248	limonoids from Khaya senegalensis. *Phytochemistry*, **1998**, 49, 1769-1772	4	45
247	Supercritical fluid chromatography as a method of analysis for the determination of 4-hydroxybenzylglucosinolate degradation products. *Journal of Proteomics*, **2000**, 43, 157-74		45
246	Transfer of the cytochrome P450-dependent dhurrin pathway from Sorghum bicolor into Nicotiana tabacum chloroplasts for light-driven synthesis. *Journal of Experimental Botany*, **2016**, 67, 2495-506	7	43
245	Engineering of benzylglucosinolate in tobacco provides proof-of-concept for dead-end trap crops genetically modified to attract Plutella xylostella (diamondback moth). *Plant Biotechnology Journal*, **2012**, 10, 435-42	11.6	43
244	Kaempferol tetraglucosides from cabbage leaves. *Phytochemistry*, **1998**, 49, 2171-6	4	43
243	Glucosinolate diversity within a phylogenetic framework of the tribe Cardamineae (Brassicaceae) unraveled with HPLC-MS/MS and NMR-based analytical distinction of 70 desulfoglucosinolates. *Phytochemistry*, **2016**, 132, 33-56	4	42
242	Novel chemoselective de-esterification of esters of polyacetoxy aromatic acids by lipases. *Tetrahedron*, **1997**, 53, 2163-2176	2.4	42
241	Lack of sequestration of host plant glucosinolates in Pieris rapae and P. grarricae. *Chemoecology*, **2003**, 13, 47-54	2	41
240	Synthesis, characterization and in vitro anti-invasive activity screening of polyphenolic and heterocyclic compounds. *Bioorganic and Medicinal Chemistry*, **2003**, 11, 913-29	3.4	41
239	Aroma Volatiles of Blanched Green Peas (PisumsativumL.). *Journal of Agricultural and Food Chemistry*, **1998**, 46, 3727-3734	5.7	41
238	The biosynthetic gene cluster for the cyanogenic glucoside dhurrin in Sorghum bicolor contains its co-expressed vacuolar MATE transporter. *Scientific Reports*, **2016**, 6, 37079	4.9	40
237	Isolation and reconstitution of the heme-thiolate protein obtusifoliol 14alpha-demethylase from Sorghum bicolor (L.) Moench. *Journal of Biological Chemistry*, **1996**, 271, 32944-50	5.4	40
236	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 4: hyperbolic activation of rat liver microsomal NADPH-cytochrome C reductase by the novel acetylator 7,8-diacetoxy-4-methylcoumarin. *Bioorganic and Medicinal Chemistry*, **1999**, 7, 369-73	3.4	40
235	Synthesis of abasic locked nucleic acid and two seco-LNA derivatives and evaluation of their hybridization properties compared with their more flexible DNA counterparts. *Journal of Organic Chemistry*, **2000**, 65, 5167-76	4.2	39
234	Catalytic activity, duplication and evolution of the CYP98 cytochrome P450 family in wheat. *Plant Molecular Biology*, **2007**, 63, 1-19	4.6	38
233	Formation of peptide thioamides by use of Fmoc amino monothioacids and PyBOP.. *Tetrahedron Letters*, **1991**, 32, 7617-7620	2	38
232	Taste detection of the non-volatile isothiocyanate moringin results in deterrence to glucosinolate-adapted insect larvae. *Phytochemistry*, **2015**, 118, 139-48	4	37

231	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	4.5	37
230	Modulation of sulfur metabolism enables efficient glucosinolate engineering. *BMC Biotechnology*, **2011**, 11, 12	3.5	37
229	Acetoxy-4-methylcoumarins confer differential protection from aflatoxin B(1)-induced micronuclei and apoptosis in lung and bone marrow cells. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2001**, 494, 31-40	3	37
228	Chemical synthesis of 6"N-alpha-maltotriosyl-maltohexaose as substrate for enzymes in starch biosynthesis and degradation. *Carbohydrate Research*, **1999**, 320, 19-30	2.9	37
227	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	3.7	37
226	Cyanogenic Glucosides and Derivatives in Almond and Sweet Cherry Flower Buds from Dormancy to Flowering. *Frontiers in Plant Science*, **2017**, 8, 800	6.2	36
225	Glutathione transferases catalyze recycling of auto-toxic cyanogenic glucosides in sorghum. *Plant Journal*, **2018**, 94, 1109-1125	6.9	34
224	Phenylalanine derived cyanogenic diglucosides from Eucalyptus camphora and their abundances in relation to ontogeny and tissue type. *Phytochemistry*, **2011**, 72, 2325-34	4	33
223	A common pathway for metabolism of 4-hydroxybenzylglucosinolate in Pieris and Anthocaris (Lepidoptera: Pieridae). *Biochemical Systematics and Ecology*, **2006**, 34, 189-198	1.4	33
222	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 7: Assay and characterization of 7,8-diacetoxy-4-methylcoumarin:protein transacetylase from rat liver microsomes based on the irreversible inhibition of cytosolic glutathione S-transferase. *Bioorganic and Medicinal Chemistry*, **2000**, 8, 1707-12	3.4	33
221	Supercritical fluid chromatography as basis for identification and quantitative determination of indol-3-ylmethyl oligomers and ascorbigens. *Journal of Proteomics*, **2000**, 43, 175-95		33
220	Determination of ascorbigens in autolysates of various Brassica species using supercritical fluid chromatography. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 2693-701	5.7	33
219	Methyl Transfer in Glucosinolate Biosynthesis Mediated by Indole Glucosinolate O-Methyltransferase 5. *Plant Physiology*, **2016**, 172, 2190-2203	6.6	32
218	Lessons learned from metabolic engineering of cyanogenic glucosides. *Metabolomics*, **2007**, 3, 383-398	4.7	32
217	Cholesterol oxidation in butter and dairy spread during storage. *Journal of Dairy Research*, **1996**, 63, 159-67	1.6	32
216	Neolignans and alkaloids from Piper argyrophylum. *Phytochemistry*, **1996**, 43, 1355-1360	4	32
215	The bifurcation of the cyanogenic glucoside and glucosinolate biosynthetic pathways. *Plant Journal* , **2015**, 84, 558-73	6.9	31
214	Multiple hydroxyphenethyl glucosinolate isomers and their tandem mass spectrometric distinction in a geographically structured polymorphism in the crucifer Barbarea vulgaris. *Phytochemistry*, **2015** , 115, 130-42	4	31

213	Isoferuloyl derivatives of five seed glucosinolates in the crucifer genus Barbarea. *Phytochemistry*, **2011**, 72, 610-23	4	31
212	Cytotoxic phenylpropanoids and an additional thapsigargin analogue isolated from Thapsia garganica. *Phytochemistry*, **2006**, 67, 2651-8	4	31
211	Solvent-free biocatalytic amidation of carboxylic acids. *Tetrahedron Letters*, **2005**, 46, 4511-4514	2	31
210	Establishment of the enzymatic protein acetylation independent of acetyl CoA: recombinant glutathione S-transferase 3-3 is acetylated by a novel membrane-bound transacetylase using 7,8-diacetoxy-4-methyl coumarin as the acetyl donor. *FEBS Letters*, **2002**, 530, 139-42	3.8	31
209	Iridoid glucosides in Plantago alpina and P. Altissima. *Phytochemistry*, **1996**, 42, 1633-1636	4	31
208	Molluscicidal saponins from a Zimbabwean strain of Phytolacca dodecandra. *Phytochemistry*, **1994**, 36, 753-9	4	31
207	Mauritian red nectar remains a mystery. *Nature*, **1998**, 393, 529-529	50.4	30
206	Reconstitution of cyanogenesis in barley (Hordeum vulgare L.) and its implications for resistance against the barley powdery mildew fungus. *Planta*, **2006**, 223, 1010-23	4.7	30
205	Antiplasmodial compounds from Cochlospermum tinctorium. *Journal of Natural Products*, **2002**, 65, 1325-7	4.9	30
204	Structure-activity relationships of analogues of thapsigargin modified at O-11 and O-12. *Journal of Medicinal Chemistry*, **1995**, 38, 272-6	8.3	30
203	An aristolactam from Piper acutisleginum and revision of the structures of piperolactam B and D. *Phytochemistry*, **1993**, 33, 518-520	4	30
202	Glucosinolate hydrolysis products in the crucifer Barbarea vulgaris include a thiazolidine-2-one from a specific phenolic isomer as well as oxazolidine-2-thiones. *Phytochemistry*, **2015**, 115, 143-51	4	29
201	Different geographical distributions of two chemotypes of Barbarea vulgaris that differ in resistance to insects and a pathogen. *Journal of Chemical Ecology*, **2014**, 40, 491-501	2.7	29
200	Metabolomic, transcriptional, hormonal, and signaling cross-talk in superroot2. *Molecular Plant*, **2010**, 3, 192-211	14.4	29
199	Complex metabolism of aromatic glucosinolates in Pieris rapae caterpillars involving nitrile formation, hydroxylation, demethylation, sulfation, and host plant dependent carboxylic acid formation. *Insect Biochemistry and Molecular Biology*, **2010**, 40, 126-37	4.5	29
198	Characterization and chemistry of imidazolidinyl urea and diazolidinyl urea. *Contact Dermatitis*, **2006**, 54, 50-8	2.7	29
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