

Carl Erik Olsen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Glucosinolate profiles and phylogeny in <i>Barbarea</i> compared to other tribe Cardamineae (Brassicaceae) and <i>Reseda</i> (Resedaceae), based on a library of ion trap HPLC-MS/MS data of reference desulfoglucosinolates. <i>Phytochemistry</i> , 2021 , 185, 112658	4	5
355	The dynamics of cyanide defences in the life cycle of an aposematic butterfly: Biosynthesis versus sequestration. <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 116, 103259	4.5	9
354	Glucosinolate structural diversity, identification, chemical synthesis and metabolism in plants. <i>Phytochemistry</i> , 2020 , 169, 112100	4	150
353	Biosynthesis of cyanogenic glucosides in and the evolution of oxime-based defenses. <i>Plant Direct</i> , 2020 , 4, e00244	3.3	5
352	The cytochrome P450 CYP72A552 is key to production of hederagenin-based saponins that mediate plant defense against herbivores. <i>New Phytologist</i> , 2019 , 222, 1599-1609	9.8	20
351	Metabolic Changes and Increased Levels of Bioactive Compounds in White Radish (<i>Raphanus sativus</i> L. cv. 01) Sprouts Elicited by Oligochitosan. <i>Agronomy</i> , 2019 , 9, 467	3.6	6
350	No evidence of quantitative signal honesty across species of aposematic burnet moths (Lepidoptera: Zygaenidae). <i>Journal of Evolutionary Biology</i> , 2019 , 32, 31-48	2.3	8
349	Glutathione transferases catalyze recycling of auto-toxic cyanogenic glucosides in sorghum. <i>Plant Journal</i> , 2018 , 94, 1109-1125	6.9	34
348	Diurnal regulation of cyanogenic glucoside biosynthesis and endogenous turnover in cassava. <i>Plant Direct</i> , 2018 , 2, e00038	3.3	16
347	Honeybees Tolerate Cyanogenic Glucosides from Clover Nectar and Flowers. <i>Insects</i> , 2018 , 9,	2.8	4
346	Reconfigured Cyanogenic Glucoside Biosynthesis in Involves a Cytochrome P450 CYP706C55. <i>Plant Physiology</i> , 2018 , 178, 1081-1095	6.6	24
345	Sex differences but no evidence of quantitative honesty in the warning signals of six-spot burnet moths (<i>Zygaena filipendulae</i> L.). <i>Evolution; International Journal of Organic Evolution</i> , 2018 , 72, 1460	3.8	5
344	Hydroxyl and Methoxyl Derivatives of Benzylglucosinolate in <i>Lepidium densiflorum</i> with Hydrolysis to Isothiocyanates and non-Isothiocyanate Products: Substitution Governs Product Type and Mass Spectral Fragmentation. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 3167-3178	5.7	14
343	Chemical Synthesis of L-Fucose Derivatives for Acceptor Specificity Characterisation of Plant Cell Wall Glycosyltransferases. <i>ChemistrySelect</i> , 2017 , 2, 997-1007	1.8	
342	Identification and evolution of a plant cell wall specific glycoprotein glycosyl transferase, ExAD. <i>Scientific Reports</i> , 2017 , 7, 45341	4.9	22
341	Reduction of antinutritional glucosinolates in Brassica oilseeds by mutation of genes encoding transporters. <i>Nature Biotechnology</i> , 2017 , 35, 377-382	44.5	49
340	Origin and evolution of transporter substrate specificity within the NPF family. <i>ELife</i> , 2017 , 6,	8.9	48

339	Spatial separation of the cyanogenic glucosidase ZfBGD2 and cyanogenic glucosides in the haemolymph of larvae facilitates cyanide release. <i>Royal Society Open Science</i> , 2017 , 4, 170262	3.3	11
338	The terpene synthase gene family in <i>Tripterygium wilfordii</i> harbors a labdane-type diterpene synthase among the monoterpene synthase TPS-b subfamily. <i>Plant Journal</i> , 2017 , 89, 429-441	6.9	46
337	Cyanogenic Glucosides and Derivatives in Almond and Sweet Cherry Flower Buds from Dormancy to Flowering. <i>Frontiers in Plant Science</i> , 2017 , 8, 800	6.2	36
336	Total biosynthesis of the cyclic AMP booster forskolin from. <i>ELife</i> , 2017 , 6,	8.9	60
335	Phosphorylation at serine 52 and 635 does not alter the transport properties of glucosinolate transporter AtGTR1. <i>Plant Signaling and Behavior</i> , 2016 , 11, e1071751	2.5	
334	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	4.9	40
333	Characterization of a dynamic metabolon producing the defense compound dhurrin in sorghum. <i>Science</i> , 2016 , 354, 890-893	33.3	166
332	Glucosinolate diversity within a phylogenetic framework of the tribe Cardamineae (Brassicaceae) unraveled with HPLC-MS/MS and NMR-based analytical distinction of 70 desulfoglucosinolates. <i>Phytochemistry</i> , 2016 , 132, 33-56	4	42
331	Methyl Transfer in Glucosinolate Biosynthesis Mediated by Indole Glucosinolate O-Methyltransferase 5. <i>Plant Physiology</i> , 2016 , 172, 2190-2203	6.6	32
330	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	4.5	37
329	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, 2495-506	7	43
328	General and Stereocontrolled Approach to the Chemical Synthesis of Naturally Occurring Cyanogenic Glucosides. <i>Journal of Natural Products</i> , 2016 , 79, 1198-202	4.9	21
327	Metabolic engineering of light-driven cytochrome P450 dependent pathways into <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , 2016 , 33, 1-11	9.7	51
326	Engineering of methionine chain elongation part of glucoraphanin pathway in <i>E. coli</i> . <i>Metabolic Engineering</i> , 2016 , 35, 31-37	9.7	18
325	Biosynthesis of the leucine derived β -, β and β hydroxynitrile glucosides in barley (<i>Hordeum vulgare</i> L.). <i>Plant Journal</i> , 2016 , 88, 247-256	6.9	18
324	The Arabidopsis NPF3 protein is a GA transporter. <i>Nature Communications</i> , 2016 , 7, 11486	17.4	115
323	Chemo- and Regioselective Functionalization of Nortrilobolide: Application for Semisynthesis of the Natural Product 2-Acetoxytrilobolide. <i>Journal of Natural Products</i> , 2015 , 78, 1406-14	4.9	12
322	Design and Synthesis of Triazole-Linked xylo-Nucleoside Dimers. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2015 , 34, 388-99	1.4	4

321	Iminolactones from <i>Schizophyllum commune</i> . <i>Journal of Natural Products</i> , 2015 , 78, 1165-8	4.9	14
320	Lotus japonicus flowers are defended by a cyanogenic glucosidase with highly restricted expression to essential reproductive organs. <i>Plant Molecular Biology</i> , 2015 , 89, 21-34	4.6	16
319	Derivatization of isothiocyanates and their reactive adducts for chromatographic analysis. <i>Phytochemistry</i> , 2015 , 118, 109-15	4	12
318	Taste detection of the non-volatile isothiocyanate moringin results in deterrence to glucosinolate-adapted insect larvae. <i>Phytochemistry</i> , 2015 , 118, 139-48	4	37
317	Accumulation of secondary metabolites in healthy and diseased barley, grown under future climate levels of CO ₂ , ozone and temperature. <i>Phytochemistry</i> , 2015 , 118, 162-73	4	22
316	Metabolism, excretion and avoidance of cyanogenic glucosides in insects with different feeding specialisations. <i>Insect Biochemistry and Molecular Biology</i> , 2015 , 66, 119-28	4.5	23
315	Glucosinolate hydrolysis products in the crucifer <i>Barbarea vulgaris</i> include a thiazolidine-2-one from a specific phenolic isomer as well as oxazolidine-2-thiones. <i>Phytochemistry</i> , 2015 , 115, 143-51	4	29
314	Cu(I)-Catalyzed Efficient Synthesis of 2-Triazolo-nucleoside Conjugates. <i>Journal of Heterocyclic Chemistry</i> , 2015 , 52, 701-710	1.9	6
313	Heterologous expression of the isopimaric acid pathway in <i>Nicotiana benthamiana</i> and the effect of N-terminal modifications of the involved cytochrome P450 enzyme. <i>Journal of Biological Engineering</i> , 2015 , 9, 24	6.3	24
312	Volatiles from the burnet moth <i>Zygaena filipendulae</i> (Lepidoptera) and associated flowers, and their involvement in mating communication. <i>Physiological Entomology</i> , 2015 , 40, 284-295	1.9	10
311	Identification and genome organization of saponin pathway genes from a wild crucifer, and their use for transient production of saponins in <i>Nicotiana benthamiana</i> . <i>Plant Journal</i> , 2015 , 84, 478-90	6.9	58
310	The bifurcation of the cyanogenic glucoside and glucosinolate biosynthetic pathways. <i>Plant Journal</i> , 2015 , 84, 558-73	6.9	31
309	Diversified glucosinolate metabolism: biosynthesis of hydrogen cyanide and of the hydroxynitrile glucoside alliarinoside in relation to sinigrin metabolism in <i>Alliaria petiolata</i> . <i>Frontiers in Plant Science</i> , 2015 , 6, 926	6.2	19
308	Multiple hydroxyphenethyl glucosinolate isomers and their tandem mass spectrometric distinction in a geographically structured polymorphism in the crucifer <i>Barbarea vulgaris</i> . <i>Phytochemistry</i> , 2015 , 115, 130-42	4	31
307	A Functional EXXEK Motif is Essential for Proton Coupling and Active Glucosinolate Transport by NPF2.11. <i>Plant and Cell Physiology</i> , 2015 , 56, 2340-50	4.9	22
306	A recycling pathway for cyanogenic glycosides evidenced by the comparative metabolic profiling in three cyanogenic plant species. <i>Biochemical Journal</i> , 2015 , 469, 375-89	3.8	79
305	Glycoproteomic analysis of seven major allergenic proteins reveals novel post-translational modifications. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 191-204	7.6	28
304	Consequences of combined herbivore feeding and pathogen infection for fitness of <i>Barbarea vulgaris</i> plants. <i>Oecologia</i> , 2014 , 175, 589-600	2.9	28

303	Glucosinolate-related glucosides in <i>Alliaria petiolata</i> : sources of variation in the plant and different metabolism in an adapted specialist herbivore, <i>Pieris rapae</i> . <i>Journal of Chemical Ecology</i> , 2014 , 40, 1063-79	3.7	19
302	Chemoenzymatic convergent synthesis of 2NO ₂ ,4NC-methyleneribonucleosides. <i>Journal of Organic Chemistry</i> , 2014 , 79, 6336-41	4.2	19
301	Chemo-enzymatic synthesis of bicyclic 3'-azido- and 3'-amino-nucleosides. <i>RSC Advances</i> , 2014 , 4, 372313-7	3.7	9
300	Microbial Synthesis of the Forskolin Precursor Manoyl Oxide in an Enantiomerically Pure Form. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 7258-65	4.8	22
299	Chemoenzymatic synthesis of C-4N ₂ spiro-oxetanoribonucleosides. <i>Journal of Organic Chemistry</i> , 2014 , 79, 8516-21	4.2	15
298	Different geographical distributions of two chemotypes of <i>Barbarea vulgaris</i> that differ in resistance to insects and a pathogen. <i>Journal of Chemical Ecology</i> , 2014 , 40, 491-501	2.7	29
297	Specific glucosinolate analysis reveals variable levels of epimeric glucobarbarins, dietary precursors of 5-phenyloxazolidine-2-thiones, in watercress types with contrasting chromosome numbers. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 9586-96	5.7	27
296	Sequestration, tissue distribution and developmental transmission of cyanogenic glucosides in a specialist insect herbivore. <i>Insect Biochemistry and Molecular Biology</i> , 2014 , 44, 44-53	4.5	26
295	The evolutionary appearance of non-cyanogenic hydroxynitrile glucosides in the <i>Lotus</i> genus is accompanied by the substrate specialization of paralogous glucosidases resulting from a crucial amino acid substitution. <i>Plant Journal</i> , 2014 , 79, 299-311	6.9	13
294	Synthesis of the allelochemical alliarinose present in garlic mustard (<i>Alliaria petiolata</i>), an invasive plant species in North America. <i>Carbohydrate Research</i> , 2014 , 394, 13-6	2.9	5
293	Transcriptional regulation of de novo biosynthesis of cyanogenic glucosides throughout the life-cycle of the burnet moth <i>Zygaena filipendulae</i> (Lepidoptera). <i>Insect Biochemistry and Molecular Biology</i> , 2014 , 49, 80-9	4.5	16
292	Elucidating the role of transport processes in leaf glucosinolate distribution. <i>Plant Physiology</i> , 2014 , 166, 1450-62	6.6	48
291	Vanillin formation from ferulic acid in <i>Vanilla planifolia</i> is catalysed by a single enzyme. <i>Nature Communications</i> , 2014 , 5, 4037	17.4	112
290	Anchoring a plant cytochrome P450 via PsaM to the thylakoids in <i>Synechococcus</i> sp. PCC 7002: evidence for light-driven biosynthesis. <i>PLoS ONE</i> , 2014 , 9, e102184	3.7	37
289	De novo genetic engineering of the camalexin biosynthetic pathway. <i>Journal of Biotechnology</i> , 2013 , 167, 296-301	3.7	21
288	Male-to-female transfer of 5-hydroxytryptophan glucoside during mating in <i>Zygaena filipendulae</i> (Lepidoptera). <i>Insect Biochemistry and Molecular Biology</i> , 2013 , 43, 1037-44	4.5	10
287	Redirecting photosynthetic reducing power toward bioactive natural product synthesis. <i>ACS Synthetic Biology</i> , 2013 , 2, 308-15	5.7	69
286	Design and synthesis of LNA-based mercaptoacetamido-linked nucleoside dimers. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2013 , 32, 256-72	1.4	7

285	Chemoenzymatic synthesis of 3-Deoxy-3-(4-substituted-triazol-1-yl)-5-methyluridine. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2013 , 32, 646-59	1.4	9
284	Integration of biosynthesis and long-distance transport establish organ-specific glucosinolate profiles in vegetative Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 3133-45	11.6	109
283	Biosynthesis of rhodiocyanosides in Lotus japonicus: rhodiocyanoside A is synthesized from (Z)-2-methylbutanal oxime via 2-methyl-2-butenitrile. <i>Phytochemistry</i> , 2012 , 77, 260-7	4	23
282	Glucosinolate structures in evolution. <i>Phytochemistry</i> , 2012 , 77, 16-45	4	345
281	Microbial production of indolylglucosinolate through engineering of a multi-gene pathway in a versatile yeast expression platform. <i>Metabolic Engineering</i> , 2012 , 14, 104-11	9.7	157
280	Engineering of benzylglucosinolate in tobacco provides proof-of-concept for dead-end trap crops genetically modified to attract <i>Plutella xylostella</i> (diamondback moth). <i>Plant Biotechnology Journal</i> , 2012 , 10, 435-42	11.6	43
279	Design, synthesis and biological activity evaluation of regioisomeric spiro-(indoline-isoxazolidines) in the inhibition of TNF- α -induced ICAM-1 expression on human endothelial cells. <i>MedChemComm</i> , 2012 , 3, 1536	5	10
278	UDP-glycosyltransferases from the UGT73C subfamily in <i>Barbarea vulgaris</i> catalyze sapogenin 3-O-glucosylation in saponin-mediated insect resistance. <i>Plant Physiology</i> , 2012 , 160, 1881-95	6.6	96
277	Chalcone inhibitors of the NorA efflux pump in <i>Staphylococcus aureus</i> whole cells and enriched everted membrane vesicles. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 4514-21	3.4	47
276	Selective biocatalytic acylation studies on 5'-O-(4,4'-dimethoxytrityl)-2'-deoxyuridine: an efficient synthesis of UNA monomer. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2012 , 31, 831-40	1.4	4
275	O-Aryl β -D-ribofuranosides: synthesis & highly efficient biocatalytic separation of anomers and evaluation of their Src kinase inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 6821-30	3.4	15
274	NRT/PTR transporters are essential for translocation of glucosinolate defence compounds to seeds. <i>Nature</i> , 2012 , 488, 531-4	50.4	312
273	Occurrence of sarmentosin and other hydroxynitrile glucosides in <i>Parnassius</i> (papilionidae) butterflies and their food plants. <i>Journal of Chemical Ecology</i> , 2012 , 38, 525-37	2.7	12
272	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	11.6	89
271	6-O-methylkrigeine, a new amaryllidaceae alkaloid from <i>Nerine huttoniae</i> Schönbland. <i>Natural Product Research</i> , 2012 , 26, 56-60	2.3	6
270	Polymorphism for novel tetraglycosylated flavonols in an Eco-model crucifer, <i>Barbarea vulgaris</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 6947-56	5.7	19
269	Biocatalytic deacylation studies on tetra-O-acyl- β -D-xylofuranosyl nucleosides: synthesis of xylo-LNA monomers. <i>Journal of Organic Chemistry</i> , 2011 , 76, 7556-62	4.2	17
268	O-glycosylated cell wall proteins are essential in root hair growth. <i>Science</i> , 2011 , 332, 1401-3	33.3	220

267	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, 273-86	6.9	130
266	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	6.9	46
265	Phenylalanine derived cyanogenic diglucosides from <i>Eucalyptus camphora</i> and their abundances in relation to ontogeny and tissue type. <i>Phytochemistry</i> , 2011 , 72, 2325-34	4	33
264	Novel natural product-based cinnamates and their thio and thiono analogs as potent inhibitors of cell adhesion molecules on human endothelial cells. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 5498-511	6.8	12
263	Synthesis and biological activity evaluation of N-protected isatin derivatives as inhibitors of ICAM-1 expression on human endothelial cells. <i>MedChemComm</i> , 2011 , 2, 743	5	18
262	Modulation of sulfur metabolism enables efficient glucosinolate engineering. <i>BMC Biotechnology</i> , 2011 , 11, 12	3.5	37
261	Isoferuloyl derivatives of five seed glucosinolates in the crucifer genus <i>Barbarea</i> . <i>Phytochemistry</i> , 2011 , 72, 610-23	4	31
260	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, 282-92	6.6	66
259	Convergent evolution in biosynthesis of cyanogenic defence compounds in plants and insects. <i>Nature Communications</i> , 2011 , 2, 273	17.4	92
258	Metabolic engineering in <i>Nicotiana benthamiana</i> reveals key enzyme functions in Arabidopsis indole glucosinolate modification. <i>Plant Cell</i> , 2011 , 23, 716-29	11.6	139
257	Cytosolic γ -glutamyl peptidases process glutathione conjugates in the biosynthesis of glucosinolates and camalexin in Arabidopsis. <i>Plant Cell</i> , 2011 , 23, 2456-69	11.6	91
256	Enantioselective biocatalytic reactions on (\pm)-aryl alkyl ketones with native and modified porcine pancreatic lipase. <i>Biocatalysis and Biotransformation</i> , 2010 , 28, 172-184	2.5	2
255	Metabolomic, transcriptional, hormonal, and signaling cross-talk in superroot2. <i>Molecular Plant</i> , 2010 , 3, 192-211	14.4	29
254	Genetic screening identifies cyanogenesis-deficient mutants of <i>Lotus japonicus</i> and reveals enzymatic specificity in hydroxynitrile glucoside metabolism. <i>Plant Cell</i> , 2010 , 22, 1605-19	11.6	52
253	Variable glucosinolate profiles of <i>Cardamine pratensis</i> (Brassicaceae) with equal chromosome numbers. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 4693-700	5.7	27
252	Complex metabolism of aromatic glucosinolates in <i>Pieris rapae</i> caterpillars involving nitrile formation, hydroxylation, demethylation, sulfation, and host plant dependent carboxylic acid formation. <i>Insect Biochemistry and Molecular Biology</i> , 2010 , 40, 126-37	4.5	29
251	Synthesis, Src kinase inhibitory and anticancer activities of 1-substituted 3-(N-alkyl-N-phenylamino)propane-2-ols. <i>Biochimie</i> , 2010 , 92, 1164-72	4.6	10
250	Biocatalytic separation of N-7/N-9 guanine nucleosides. <i>Journal of Organic Chemistry</i> , 2010 , 75, 7932-5	4.2	12

249	Production of the cancer-preventive glucoraphanin in tobacco. <i>Molecular Plant</i> , 2010 , 3, 751-9	14.4	60
248	Leaf and floral parts feeding by orange tip butterfly larvae depends on larval position but not on glucosinolate profile or nitrogen level. <i>Journal of Chemical Ecology</i> , 2010 , 36, 1335-45	2.7	17
247	Initial Stages in the Rhodium(III)-Catalyzed C-H Bond Activation of Primary Alcohols in Aqueous Solution. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4938-4944	2.3	
246	Elucidation of the topography of the thapsigargin binding site in the sarco-endoplasmic calcium ATPase. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 5634-46	3.4	17
245	Neolignans, cyclohexanes and alkaloids from <i>Piper wightii</i> . <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 2010 , 115, 9-12		8
244	19 α -Hydroxy-3-oxo-ursa-1,12-dien-28-oic acid, an antiplasmodial triterpenoid isolated from <i>Canthium multiflorum</i> . <i>Natural Product Research</i> , 2009 , 23, 1108-11	2.3	7
243	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	14.4	133
242	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, 2765-74	4.8	250
241	Towards engineering glucosinolates into non-cruciferous plants. <i>Planta</i> , 2009 , 229, 261-70	4.7	63
240	Controlled indole-3-acetaldoxime production through ethanol-induced expression of CYP79B2. <i>Planta</i> , 2009 , 229, 1209-17	4.7	13
239	Glucosinolate engineering identifies a gamma-glutamyl peptidase. <i>Nature Chemical Biology</i> , 2009 , 5, 575-7	11.7	122
238	Identification of defense compounds in <i>Barbarea vulgaris</i> against the herbivore <i>Phyllotreta nemorum</i> by an ecometabolomic approach. <i>Plant Physiology</i> , 2009 , 151, 1977-90	6.6	88
237	The beta-glucosidases responsible for bioactivation of hydroxynitrile glucosides in <i>Lotus japonicus</i> . <i>Plant Physiology</i> , 2008 , 147, 1072-91	6.6	52
236	Bitterness in almonds. <i>Plant Physiology</i> , 2008 , 146, 1040-52	6.6	89
235	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, 1295-308	6.6	71
234	A new oxygenated ursane derivative from <i>Canthium multiflorum</i> . <i>Planta Medica</i> , 2008 , 74, 560-2	3.1	7
233	<i>Sinapis</i> phylogeny and evolution of glucosinolates and specific nitrile degrading enzymes. <i>Phytochemistry</i> , 2008 , 69, 2937-49	4	57
232	Diversification of an ancient theme: hydroxynitrile glucosides. <i>Phytochemistry</i> , 2008 , 69, 1507-16	4	60

231	Synthesis and antimicrobial activity of 3-arylamino-1-chloropropan-2-ols. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2156-61	2.9	7
230	Acid-catalysed rearrangement of glycosyl trichloroacetimidates: a novel route to glycosylamines. <i>Carbohydrate Research</i> , 2008 , 343, 383-7	2.9	15
229	Novel carbohydrate-based chiral ammonium ionic liquids derived from isomannide. <i>Tetrahedron: Asymmetry</i> , 2008 , 19, 664-671		52
228	Cytotoxic kurubasch aldehyde from <i>Trichilia emetica</i> . <i>Natural Product Research</i> , 2007 , 21, 13-7	2.3	25
227	Selective biocatalytic deacylation studies on furanose triesters: a novel and efficient approach towards bicyclonucleosides. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 3524-30	3.9	18
226	Synthesis and applications of novel bis(ammonium) chiral ionic liquids derived from isomannide. <i>Organic Letters</i> , 2007 , 9, 3905-8	6.2	62
225	Lessons learned from metabolic engineering of cyanogenic glucosides. <i>Metabolomics</i> , 2007 , 3, 383-398	4.7	32
224	<i>Arabidopsis</i> cytochrome P450 monooxygenase 71A13 catalyzes the conversion of indole-3-acetaldoxime in camalexin synthesis. <i>Plant Cell</i> , 2007 , 19, 2039-52	11.6	259
223	Rate of hydrolysis and degradation of the cyanogenic glycoside - dhurrin - in soil. <i>Chemosphere</i> , 2007 , 67, 259-66	8.4	14
222	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, 10-8	4.5	52
221	Host plant-dependent metabolism of 4-hydroxybenzylglucosinolate in <i>Pieris rapae</i> : substrate specificity and effects of genetic modification and plant nitrile hydratase. <i>Insect Biochemistry and Molecular Biology</i> , 2007 , 37, 1119-30	4.5	20
220	Intimate roles for cyanogenic glucosides in the life cycle of <i>Zygaena filipendulae</i> (Lepidoptera, Zygaenidae). <i>Insect Biochemistry and Molecular Biology</i> , 2007 , 37, 1189-97	4.5	46
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