

Jules Beekwilder

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.

126
papers

6,465
citations

44
h-index

77
g-index

127
ext. papers

7,596
ext. citations

6.1
avg. IF

5.65
L-index

#	Paper	IF	Citations
126	Integrating structure-based machine learning and co-evolution to investigate specificity in plant sesquiterpene synthases. <i>PLoS Computational Biology</i> , 2021 , 17, e1008197	5	1
125	Several geranylgeranyl diphosphate synthase isoforms supply metabolic substrates for carotenoid biosynthesis in tomato. <i>New Phytologist</i> , 2021 , 231, 255-272	9.8	14
124	Inactivation of the germacrene A synthase genes by CRISPR/Cas9 eliminates the biosynthesis of sesquiterpene lactones in <i>Cichorium intybus</i> L. <i>Plant Biotechnology Journal</i> , 2021 , 19, 2442-2453	11.6	2
123	The transition of <i>Rhodobacter sphaeroides</i> into a microbial cell factory. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 531-541	4.9	7
122	The application of a biostimulant based on tannins affects root architecture and improves tolerance to salinity in tomato plants. <i>Scientific Reports</i> , 2021 , 11, 354	4.9	26
121	The santalene synthase from <i>Cinnamomum camphora</i> : Reconstruction of a sesquiterpene synthase from a monoterpene synthase. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 695, 108647	4.1	5
120	MYB5-like and bHLH influence flavonoid composition in pomegranate. <i>Plant Science</i> , 2020 , 298, 110563	5.3	12
119	Functional replacement of isoprenoid pathways in <i>Rhodobacter sphaeroides</i> . <i>Microbial Biotechnology</i> , 2020 , 13, 1082-1093	6.3	9
118	Novel routes towards bioplastics from plants: elucidation of the methylperillate biosynthesis pathway from <i>Salvia dorisiana</i> trichomes. <i>Journal of Experimental Botany</i> , 2020 , 71, 3052-3065	7	7
117	Plant Aromatic Prenyltransferases: Tools for Microbial Cell Factories. <i>Trends in Biotechnology</i> , 2020 , 38, 917-934	15.1	17
116	Analysis of wild tomato introgression lines elucidates the genetic basis of transcriptome and metabolome variation underlying fruit traits and pathogen response. <i>Nature Genetics</i> , 2020 , 52, 1111-1121	36.3	35
115	Silencing of germacrene A synthase genes reduces guaianolide oxalate content in L. <i>GM Crops and Food</i> , 2020 , 11, 54-66	2.7	4
114	Metabolic flux ratio analysis by parallel C labeling of isoprenoid biosynthesis in <i>Rhodobacter sphaeroides</i> . <i>Metabolic Engineering</i> , 2020 , 57, 228-238	9.7	7
113	Growth-uncoupled isoprenoid synthesis in. <i>Biotechnology for Biofuels</i> , 2020 , 13, 123	7.8	9
112	Glucosinolate variability between turnip organs during development. <i>PLoS ONE</i> , 2019 , 14, e0217862	3.7	6
111	Toward Developing a Yeast Cell Factory for the Production of Prenylated Flavonoids. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 13478-13486	5.7	27
110	A MYB Triad Controls Primary and Phenylpropanoid Metabolites for Pollen Coat Patterning. <i>Plant Physiology</i> , 2019 , 180, 87-108	6.6	21

109	Tissue specific expression and genomic organization of bitter sesquiterpene lactone biosynthesis in <i>Cichorium intybus</i> L. (Asteraceae). <i>Industrial Crops and Products</i> , 2019 , 129, 253-260	5.9	4
108	An analysis of characterized plant sesquiterpene synthases. <i>Phytochemistry</i> , 2019 , 158, 157-165	4	19
107	β-galactosidase A1.1 can functionally complement human β-galactosidase A deficiency associated with Fabry disease. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10042-10058	5.4	11
106	Engineering storage capacity for volatile sesquiterpenes in <i>Nicotiana benthamiana</i> leaves. <i>Plant Biotechnology Journal</i> , 2018 , 16, 1997-2006	11.6	12
105	Methyl Perillate as a Highly Functionalized Natural Starting Material for Terephthalic Acid. <i>ChemistryOpen</i> , 2018 , 7, 201-203	2.3	4
104	The effect of isabelin, a sesquiterpene lactone from <i>Ambrosia artemisiifolia</i> on soil microorganisms and human pathogens. <i>FEMS Microbiology Letters</i> , 2018 , 365,	2.9	3
103	Effect of dietary fiber (inulin) addition on phenolics and in vitro bioaccessibility of tomato sauce. <i>Food Research International</i> , 2018 , 106, 129-135	7	31
102	Engineering de novo anthocyanin production in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2018 , 17, 103	6.4	41
101	Transcription Factor-Mediated Control of Anthocyanin Biosynthesis in Vegetative Tissues. <i>Plant Physiology</i> , 2018 , 176, 1862-1878	6.6	27
100	Identification of the Bisabolol Synthase in the Endangered Candeia Tree (DC) McLeisch). <i>Frontiers in Plant Science</i> , 2018 , 9, 1340	6.2	8
99	Fungal volatile compounds induce production of the secondary metabolite Sodorifen in <i>Serratia plymuthica</i> PRI-2C. <i>Scientific Reports</i> , 2017 , 7, 862	4.9	65
98	Identification of major loci and genomic regions controlling acid and volatile content in tomato fruit: implications for flavor improvement. <i>New Phytologist</i> , 2017 , 215, 624-641	9.8	39
97	Prunus Fruit Juices 2017 , 59-77		
96	Industrial processing versus home processing of tomato sauce: Effects on phenolics, flavonoids and in vitro bioaccessibility of antioxidants. <i>Food Chemistry</i> , 2017 , 220, 51-58	8.5	44
95	Processing black mulberry into jam: effects on antioxidant potential and in vitro bioaccessibility. <i>Journal of the Science of Food and Agriculture</i> , 2017 , 97, 3106-3113	4.3	30
94	A Review on the Effect of Drying on Antioxidant Potential of Fruits and Vegetables. <i>Critical Reviews in Food Science and Nutrition</i> , 2016 , 56 Suppl 1, S110-29	11.5	112
93	Biotechnological production of limonene in microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2927-38	5.7	80
92	Fruit Antioxidants during Vinegar Processing: Changes in Content and in Vitro Bio-Accessibility. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	32

91	Genome-Wide Identification of BAHD Acyltransferases and Characterization of HQT-like Enzymes Involved in Caffeoylquinic Acid Synthesis in Globe Artichoke. <i>Frontiers in Plant Science</i> , 2016 , 7, 1424	6.2	23
90	A Single Arabidopsis Gene Encodes Two Differentially Targeted Geranylgeranyl Diphosphate Synthase Isoforms. <i>Plant Physiology</i> , 2016 , 172, 1393-1402	6.6	24
89	Accumulation of cynaropicrin in globe artichoke and localization of enzymes involved in its biosynthesis. <i>Plant Science</i> , 2015 , 239, 128-36	5.3	30
88	Evaluation of the bioactive properties of avenanthramide analogs produced in recombinant yeast. <i>BioFactors</i> , 2015 , 41, 15-27	6.1	32
87	(+)-Valencene production in <i>Nicotiana benthamiana</i> is increased by down-regulation of competing pathways. <i>Biotechnology Journal</i> , 2015 , 10, 180-9	5.6	37
86	Exploring the genomic traits of fungus-feeding bacterial genus <i>Collimonas</i> . <i>BMC Genomics</i> , 2015 , 16, 1103	4.5	39
85	The effects of juice processing on black mulberry antioxidants. <i>Food Chemistry</i> , 2015 , 186, 277-84	8.5	47
84	Capturing of the monoterpene olefin limonene produced in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2015 , 32, 159-71	3.4	53
83	Cytochrome P450s from <i>Cynara cardunculus</i> L. CYP71AV9 and CYP71BL5, catalyze distinct hydroxylations in the sesquiterpene lactone biosynthetic pathway. <i>Plant Science</i> , 2014 , 223, 59-68	5.3	39
82	Production of (+)-valencene in the mushroom-forming fungus <i>S. commune</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5059-68	5.7	20
81	Orientation of llama antibodies strongly increases sensitivity of biosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 130-6	11.8	31
80	An O-methyltransferase modifies accumulation of methylated anthocyanins in seedlings of tomato. <i>Plant Journal</i> , 2014 , 80, 695-708	6.9	19
79	Metabolic diversity in apple germplasm. <i>Plant Breeding</i> , 2014 , 133, 281-290	2.4	4
78	Valencene synthase from the heartwood of Nootka cypress (<i>Callitropsis nootkatensis</i>) for biotechnological production of valencene. <i>Plant Biotechnology Journal</i> , 2014 , 12, 174-82	11.6	80
77	Production of the sesquiterpene (+)-valencene by metabolically engineered <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2014 , 191, 205-13	3.7	65
76	IdsA is the major geranylgeranyl pyrophosphate synthase involved in carotenogenesis in <i>Corynebacterium glutamicum</i> . <i>FEBS Journal</i> , 2014 , 281, 4906-20	5.7	22
75	Control of anthocyanin and non-flavonoid compounds by anthocyanin-regulating MYB and bHLH transcription factors in <i>Nicotiana benthamiana</i> leaves. <i>Frontiers in Plant Science</i> , 2014 , 5, 519	6.2	28
74	Polycistronic expression of a β -carotene biosynthetic pathway in <i>Saccharomyces cerevisiae</i> coupled to β -ionone production. <i>Journal of Biotechnology</i> , 2014 , 192 Pt B, 383-92	3.7	75

73	Valencene oxidase CYP706M1 from Alaska cedar (<i>Callitropsis nootkatensis</i>). <i>FEBS Letters</i> , 2014 , 588, 1001-7	3.8	37
72	Evidence for a hydrogen-sink mechanism of (+)catechin-mediated emission reduction of the ruminant greenhouse gas methane. <i>Metabolomics</i> , 2014 , 10, 179-189	4.7	32
71	Metabolic engineering for the microbial production of carotenoids and related products with a focus on the rare C50 carotenoids. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 4355-68	5.7	68
70	Investigating the transport dynamics of anthocyanins from unprocessed fruit and processed fruit juice from sour cherry (<i>Prunus cerasus</i> L.) across intestinal epithelial cells. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 11434-41	5.7	23
69	Biosynthesis of antinutritional alkaloids in solanaceous crops is mediated by clustered genes. <i>Science</i> , 2013 , 341, 175-9	33.3	342
68	Antibody orientation on biosensor surfaces: a minireview. <i>Analyst, The</i> , 2013 , 138, 1619-27	5	291
67	The metabolite chemotype of <i>Nicotiana benthamiana</i> transiently expressing artemisinin biosynthetic pathway genes is a function of CYP71AV1 type and relative gene dosage. <i>New Phytologist</i> , 2013 , 199, 352-366	9.8	55
66	Differences in acidity of apples are probably mainly caused by a malic acid transporter gene on LG16. <i>Tree Genetics and Genomes</i> , 2013 , 9, 475-487	2.1	40
65	Changes in polyphenol content during production of grape juice concentrate. <i>Food Chemistry</i> , 2013 , 139, 521-6	8.5	57
64	Construction of a multifunctional enzyme complex via the strain-promoted azide-alkyne cycloaddition. <i>Bioconjugate Chemistry</i> , 2013 , 24, 987-96	6.3	28
63	Industrial processing effects on phenolic compounds in sour cherry (<i>Prunus cerasus</i> L.) fruit. <i>Food Research International</i> , 2013 , 53, 218-225	7	48
62	Changes in sour cherry (<i>Prunus cerasus</i> L.) antioxidants during nectar processing and in vitro gastrointestinal digestion. <i>Journal of Functional Foods</i> , 2013 , 5, 1402-1413	5.1	47
61	The effect of uniform capture molecule orientation on biosensor sensitivity: dependence on analyte properties. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 219-26	11.8	59
60	Evaluation of glucosinolate variation in a collection of turnip (<i>Brassica rapa</i>) germplasm by the analysis of intact and desulfo glucosinolates. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 3984-93	5.7	44
59	In vitro callus-induction in globe artichoke (<i>Cynara cardunculus</i> L. var. <i>scolymus</i>) as a system for the production of caffeoylquinic acids. <i>Journal of Horticultural Science and Biotechnology</i> , 2013 , 88, 537-542	1.9	13
58	Non-smoky glycosyltransferase1 prevents the release of smoky aroma from tomato fruit. <i>Plant Cell</i> , 2013 , 25, 3067-78	11.6	64
57	16 kDa heat shock protein from heat-inactivated <i>Mycobacterium tuberculosis</i> is a homodimer - suitability for diagnostic applications with specific llama VHH monoclonals. <i>PLoS ONE</i> , 2013 , 8, e64040	3.7	7
56	The flavonoid pathway in tomato seedlings: transcript abundance and the modeling of metabolite dynamics. <i>PLoS ONE</i> , 2013 , 8, e68960	3.7	9

55	Correlation of rutin accumulation with 3-O-glucosyl transferase and phenylalanine ammonia-lyase activities during the ripening of tomato fruit. <i>Plant Foods for Human Nutrition</i> , 2012 , 67, 371-6	3.9	4
54	Genetic mapping and characterization of the globe artichoke (+)-germacrene A synthase gene, encoding the first dedicated enzyme for biosynthesis of the bitter sesquiterpene lactone cynaropicrin. <i>Plant Science</i> , 2012 , 190, 1-8	5.3	35
53	De novo production of the flavonoid naringenin in engineered <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2012 , 11, 155	6.4	235
52	The mQTL hotspot on linkage group 16 for phenolic compounds in apple fruits is probably the result of a leucoanthocyanidin reductase gene at that locus. <i>BMC Research Notes</i> , 2012 , 5, 618	2.3	11
51	Genetic analysis of metabolites in apple fruits indicates an mQTL hotspot for phenolic compounds on linkage group 16. <i>Journal of Experimental Botany</i> , 2012 , 63, 2895-908	7	59
50	Polyphenol identification based on systematic and robust high-resolution accurate mass spectrometry fragmentation. <i>Analytical Chemistry</i> , 2011 , 83, 409-16	7.8	92
49	Procyanidins in fruit from Sour cherry (<i>Prunus cerasus</i>) differ strongly in chainlength from those in Laurel cherry (<i>Prunus lauracerasus</i>) and Cornelian cherry (<i>Cornus mas</i>). <i>Journal of Berry Research</i> , 2011 , 1, 137-146	2	28
48	Reconstitution of the costunolide biosynthetic pathway in yeast and <i>Nicotiana benthamiana</i> . <i>PLoS ONE</i> , 2011 , 6, e23255	3.7	70
47	A broad set of different llama antibodies specific for a 16 kDa heat shock protein of <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2011 , 6, e26754	3.7	17
46	Affinity of Avr2 for tomato cysteine protease Rcr3 correlates with the Avr2-triggered Cf-2-mediated hypersensitive response. <i>Molecular Plant Pathology</i> , 2011 , 12, 21-30	5.7	19
45	Biosynthesis and localization of parthenolide in glandular trichomes of feverfew (<i>Tanacetum parthenium</i> L. Schulz Bip.). <i>Phytochemistry</i> , 2011 , 72, 1739-50	4	74
44	A chicory cytochrome P450 mono-oxygenase CYP71AV8 for the oxidation of (+)-valencene. <i>FEBS Letters</i> , 2011 , 585, 178-82	3.8	69
43	Self-assembled functional organic monolayers on oxide-free copper. <i>Langmuir</i> , 2011 , 27, 8126-33	4	14
42	Co-evolution of insect proteases and plant protease inhibitors. <i>Current Protein and Peptide Science</i> , 2011 , 12, 437-47	2.8	40
41	GLYCOALKALOID METABOLISM1 is required for steroidal alkaloid glycosylation and prevention of phytotoxicity in tomato. <i>Plant Cell</i> , 2011 , 23, 4507-25	11.6	154
40	<i>Nicotiana benthamiana</i> as a production platform for artemisinin precursors. <i>PLoS ONE</i> , 2010 , 5, e14222	3.7	119
39	The effect of industrial food processing on potentially health-beneficial tomato antioxidants. <i>Critical Reviews in Food Science and Nutrition</i> , 2010 , 50, 919-30	11.5	82
38	Production of novel antioxidative phenolic amides through heterologous expression of the plant's chlorogenic acid biosynthesis genes in yeast. <i>Metabolic Engineering</i> , 2010 , 12, 223-32	9.7	30

37	Characterization of Rhamnosidases from <i>Lactobacillus plantarum</i> and <i>Lactobacillus acidophilus</i> . <i>Applied and Environmental Microbiology</i> , 2009 , 75, 3447-54	4.8	62
36	Isolation and mapping of a C3H gene (CYP98A49) from globe artichoke, and its expression upon UV-C stress. <i>Plant Cell Reports</i> , 2009 , 28, 963-74	5.1	35
35	Bioactive compounds in berries relevant to human health. <i>Nutrition Reviews</i> , 2009 , 67 Suppl 1, S145-50	6.4	144
34	Antioxidants, phenolic compounds, and nutritional quality of different strawberry genotypes. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 696-704	5.7	322
33	Stress-induced biosynthesis of dicaffeoylquinic acids in globe artichoke. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 8641-9	5.7	93
32	Changes in antioxidant and metabolite profiles during production of tomato paste. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 964-73	5.7	231
31	The impact of the absence of aliphatic glucosinolates on insect herbivory in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2008 , 3, e2068	3.7	178
30	Stable recombinant alpaca antibodies for detection of Tulip virus X. <i>European Journal of Plant Pathology</i> , 2008 , 121, 477-485	2.1	15
29	Cloning and characterisation of a maize carotenoid cleavage dioxygenase (ZmCCD1) and its involvement in the biosynthesis of apocarotenoids with various roles in mutualistic and parasitic interactions. <i>Planta</i> , 2008 , 228, 789-801	4.7	77
28	Plant Protease Inhibitors: Functional Evolution for Defense 2008 , 235-251		6
27	Metabolism of carotenoids and apocarotenoids during ripening of raspberry fruit. <i>BioFactors</i> , 2008 , 34, 57-66	6.1	21
26	Microbial production of natural raspberry ketone. <i>Biotechnology Journal</i> , 2007 , 2, 1270-9	5.6	69
25	Expression of plant flavor genes in <i>Lactococcus lactis</i> . <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1544-52	4.8	33
24	Production of resveratrol in recombinant microorganisms. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5670-2	4.8	163
23	Isoprenoid biosynthesis in <i>Artemisia annua</i> : cloning and heterologous expression of a germacrene A synthase from a glandular trichome cDNA library. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 448, 3-12	4.1	102
22	Response of the digestive system of <i>Helicoverpa zea</i> to ingestion of potato carboxypeptidase inhibitor and characterization of an uninhibited carboxypeptidase B. <i>Insect Biochemistry and Molecular Biology</i> , 2006 , 36, 654-64	4.5	26
21	Identification and characterization of digestive serine proteases from inhibitor-resistant <i>Helicoverpa zea</i> larval midgut. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 833, 26-32	3.2	11
20	Antioxidants in raspberry: on-line analysis links antioxidant activity to a diversity of individual metabolites. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 3313-20	5.7	151

19	Identification and recombinant expression of a novel chymotrypsin from <i>Spodoptera exigua</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2005 , 35, 1073-82	4.5	37
18	FRUIT FLAVOR FORMATION IN WILD AND CULTIVATED STRAWBERRY. <i>Acta Horticulturae</i> , 2005 , 233-236.	6.3	3
17	Identification and dietary relevance of antioxidants from raspberry. <i>BioFactors</i> , 2005 , 23, 197-205	6.1	79
16	Structural basis of the resistance of an insect carboxypeptidase to plant protease inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 16602-7	11.5	52
15	Functional characterization of enzymes forming volatile esters from strawberry and banana. <i>Plant Physiology</i> , 2004 , 135, 1865-78	6.6	258
14	Properties of purified gut trypsin from <i>Helicoverpa zea</i> , adapted to proteinase inhibitors. <i>FEBS Journal</i> , 2003 , 270, 10-9		84
13	Cloning, functional expression in <i>Pichia pastoris</i> , and purification of potato cystatin and multicystatin. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 118-23	3.3	11
12	Selection by phage display of a variant mustard trypsin inhibitor toxic against aphids. <i>Plant Journal</i> , 2003 , 33, 557-66	6.9	51
11	Effects of cysteine protease inhibitors on oviposition rate of the western flower thrips, <i>Frankliniella occidentalis</i> . <i>Journal of Insect Physiology</i> , 2002 , 48, 701-706	2.4	22
10	Cloning of the chrysanthemum UEP1 promoter and comparative expression in florets and leaves of <i>Dendranthema grandiflora</i> . <i>Transgenic Research</i> , 2002 , 11, 437-45	3.3	26
9	Policy Response to Technological Developments. <i>Journal of New Seeds</i> , 2002 , 4, 89-102		1
8	Phage display selects for amylases with improved low pH starch-binding. <i>Journal of Biotechnology</i> , 2002 , 96, 103-18	3.7	27
7	Functional expression on bacteriophage of the mustard trypsin inhibitor MTI-2. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 280, 813-7	3.4	26
6	Characterization of potato proteinase inhibitor II reactive site mutants. <i>FEBS Journal</i> , 2000 , 267, 1975-84		37
5	A phagemid vector using the E. coli phage shock promoter facilitates phage display of toxic proteins. <i>Gene</i> , 1999 , 228, 23-31	3.8	33
4	Secondary structure model for the first three domains of Q beta RNA. Control of A-protein synthesis. <i>Journal of Molecular Biology</i> , 1996 , 256, 8-19	6.5	24
3	An oligonucleotide hybridization assay for the identification and enumeration of F-specific RNA phages in surface water. <i>Journal of Applied Bacteriology</i> , 1996 , 80, 179-86		48
2	Secondary structure model for the last two domains of single-stranded RNA phage Q beta. <i>Journal of Molecular Biology</i> , 1995 , 247, 903-17	6.5	46

- 1 Interaction of lipophorin with the plasma membrane of locust flight muscles. *Biological Chemistry Hoppe-Seyler*, **1990**, 371, 159-65