Ruud A Weusthuis

List of Publications by Year
in descending order

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66 papers	3,512 citations	201385 27 h-index	138251 58 g-index
67 all docs	67 docs citations	67 times ranked	4261 citing authors

#	Article	IF	Citations
1	Utilisation of biomass for the supply of energy carriers. Applied Microbiology and Biotechnology, 1999, 52, 741-755.	1.7	458
2	Mannitol production by lactic acid bacteria: a review. International Dairy Journal, 2002, 12, 151-161.	1.5	309
3	NADPH-generating systems in bacteria and archaea. Frontiers in Microbiology, 2015, 6, 742.	1.5	254
4	Bio-Refinery as the Bio-Inspired Process to Bulk Chemicals. Macromolecular Bioscience, 2007, 7, 105-117.	2.1	226
5	Kinetics of growth and sugar consumption in yeasts. Antonie Van Leeuwenhoek, 1993, 63, 343-352.	0.7	173
6	Controlling Ethanol Use in Chain Elongation by CO₂ Loading Rate. Environmental Science & Technology, 2018, 52, 1496-1505.	4.6	127
7	Lactic acid production from lime-treated wheat straw by Bacillus coagulans: neutralization of acid by fed-batch addition of alkaline substrate. Applied Microbiology and Biotechnology, 2008, 78, 751-758.	1.7	113
8	Ethyl acetate production by the elusive alcohol acetyltransferase from yeast. Metabolic Engineering, 2017, 41, 92-101.	3.6	106
9	Metabolic Engineering of TCA Cycle for Production of Chemicals. Trends in Biotechnology, 2016, 34, 191-197.	4.9	104
10	Microbial production of bulk chemicals: development of anaerobic processes. Trends in Biotechnology, 2011, 29, 153-158.	4.9	97
11	Metabolic engineering of Rhizopus oryzae for the production of platform chemicals. Applied Microbiology and Biotechnology, 2012, 94, 875-886.	1.7	90
12	Energetics and kinetics of maltose transport in Saccharomyces cerevisiae: a continuous culture study. Applied and Environmental Microbiology, 1993, 59, 3102-3109.	1.4	81
13	Development of an Effective Chain Elongation Process From Acidified Food Waste and Ethanol Into n-Caproate. Frontiers in Bioengineering and Biotechnology, 2018, 6, 50.	2.0	79
14	Lactic acid production from xylose by the fungus Rhizopus oryzae. Applied Microbiology and Biotechnology, 2006, 72, 861-868.	1.7	77
15	Microbial production of short and medium chain esters: Enzymes, pathways, and applications. Biotechnology Advances, 2019, 37, 107407.	6.0	75
16	Metabolic engineering of itaconate production in Escherichia coli. Applied Microbiology and Biotechnology, 2015, 99, 221-228.	1.7	64
17	Development of environmentally friendly coatings and paints using medium-chain-length poly(3-hydroxyalkanoates) as the polymer binder. International Journal of Biological Macromolecules, 1999, 25, 123-128.	3.6	63
18	Production of l(+)-lactic acid from acid pretreated sugarcane bagasse using Bacillus coagulans DSM2314 in a simultaneous saccharification and fermentation strategy. Biotechnology for Biofuels, 2016, 9, 248.	6.2	62

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19	Identifying inhibitory effects of lignocellulosic by-products on growth of lactic acid producing micro-organisms using a rapid small-scale screening method. Bioresource Technology, 2016, 209, 297-304.	4.8	58
20	Xylose metabolism in the fungus Rhizopus oryzae: effect of growth and respiration on l(+)-lactic acid production. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 569-578.	1.4	52
21	Genetic engineering of microalgae for enhanced lipid production. Biotechnology Advances, 2021, 52, 107836.	6.0	52
22	Spontaneous Formation of a Mannitol-Producing Variant of Leuconostoc pseudomesenteroides Grown in the Presence of Fructose. Applied and Environmental Microbiology, 2001, 67, 2867-2870.	1.4	50
23	A navigation guide of synthetic biology tools for Pseudomonas putida. Biotechnology Advances, 2021, 49, 107732.	6.0	48
24	Effect of n-Caproate Concentration on Chain Elongation and Competing Processes. ACS Sustainable Chemistry and Engineering, 2018, 6, 7499-7506.	3.2	42
25	Improved DNA/protein delivery in microalgae â€“ A simple and reliable method for the prediction of optimal electroporation settings. Algal Research, 2018, 33, 448-455.	2.4	39
26	Pilot-scale conversion of lime-treated wheat straw into bioethanol: quality assessment of bioethanol and valorization of side streams by anaerobic digestion and combustion. Biotechnology for Biofuels, 2008, 1, 14.	6.2	35
27	Effect of Single and Combined Expression of Lysophosphatidic Acid Acyltransferase, Glycerol-3-Phosphate Acyltransferase, and Diacylglycerol Acyltransferase on Lipid Accumulation and Composition in Neochloris oleoabundans. Frontiers in Plant Science, 2019, 10, 1573.	1.7	31
28	From biofuel to bioproduct: is bioethanol a suitable fermentation feedstock for synthesis of bulk chemicals?. Biofuels, Bioproducts and Biorefining, 2011, 5, 486-494.	1.9	25
29	Contribution of Eat1 and Other Alcohol Acyltransferases to Ester Production in Saccharomyces cerevisiae. Frontiers in Microbiology, 2018, 9, 3202.	1.5	25
30	Dilute H2SO4-catalyzed hydrothermal pretreatment to enhance enzymatic digestibility of Jatropha curcas fruit hull for ethanol fermentation. International Journal of Energy and Environmental Engineering, 2012, 3, 15.	1.3	24
31	Stable transformation of the green algae Acutodesmus obliquus and Neochloris oleoabundans based on E. coli conjugation. Algal Research, 2019, 39, 101453.	2.4	23
32	The transition of Rhodobacter sphaeroides into a microbial cell factory. Biotechnology and Bioengineering, 2021, 118, 531-541.	1.7	23
33	Characterization of heterotrophic growth and sesquiterpene production by Rhodobacter sphaeroides on a defined medium. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1179-1190.	1.4	21
34	Cultivation of the oleaginous yeast Cryptococcus curvatus in a new reactor with improved mixing and mass transfer characteristics (SurerÂ®). Biotechnology Letters, 1996, 10, 277-282.	0.5	20
35	Metabolic engineering of the mixed-acid fermentation pathway of Escherichia coli for anaerobic production of glutamate and itaconate. AMB Express, 2015, 5, 61.	1.4	20
36	Alcohol Acetyltransferase Eat1 Is Located in Yeast Mitochondria. Applied and Environmental Microbiology, 2018, 84, .	1.4	20

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37	Efficient Cas9-based genome editing of Rhodobacter sphaeroides for metabolic engineering. Microbial Cell Factories, 2019, 18, 204.	1.9	20
38	Monascus ruber as cell factory for lactic acid production at low pH. Metabolic Engineering, 2017, 42, 66-73.	3.6	19
39	Application of AlkBGT and AlkL from Pseudomonas putida GPo1 for Selective Alkyl Ester Ï‰-Oxyfunctionalization in Escherichia coli. Applied and Environmental Microbiology, 2016, 82, 3801-3807.	1.4	18
40	Transient responses ofCandida utilis to oxygen limitation: Regulation of the Kluyver effect for maltose. Yeast, 1995, 11, 317-325.	0.8	16
41	Overexpression of delta-12 desaturase in the yeast Schwanniomyces occidentalis enhances the production of linoleic acid. Bioresource Technology, 2019, 289, 121672.	4.8	16
42	Precultivation of Bacillus coagulans DSM2314 in the presence of furfural decreases inhibitory effects of lignocellulosic by-products during l(+)-lactic acid fermentation. Applied Microbiology and Biotechnology, 2016, 100, 10307-10319.	1.7	15
43	Growth-uncoupled isoprenoid synthesis in Rhodobacter sphaeroides. Biotechnology for Biofuels, 2020, 13, 123.	6.2	15
44	Multilevel optimisation of anaerobic ethyl acetate production in engineered Escherichia coli. Biotechnology for Biofuels, 2020, 13, 65.	6.2	15
45	Identification of the Maltose Transport Protein of Saccharomyces cerevisiae. Biochemical and Biophysical Research Communications, 1994, 200, 45-51.	1.0	14
46	Biocatalytic, one-pot diterminal oxidation and esterification of n-alkanes for production of Î±,Ï‰-diol and Î±,Ï‰-dicarboxylic acid esters. Metabolic Engineering, 2017, 44, 134-142.	3.6	14
47	Functional replacement of isoprenoid pathways in Rhodobacter sphaeroides. Microbial Biotechnology, 2020, 13, 1082-1093.	2.0	14
48	Production of cyanophycin in Rhizopus oryzae through the expression of a cyanophycin synthetase encoding gene. Applied Microbiology and Biotechnology, 2012, 93, 1167-1174.	1.7	13
49	High-cell-density cultivation of yeasts on disaccharides in oxygen-limited batch cultures. , 2000, 49, 621-628.		12
50	Expansion of the Ï‰â€oxidation system AlkBGTL of <scp>P</scp>seudomonas putida GPo1 with AlkJ and AlkH results in exclusive monoâ€esterified dicarboxylic acid production in E.Âcoli. Microbial Biotechnology, 2017, 10, 594-603.	2.0	12
51	From Eat to trEat: engineering the mitochondrial Eat1 enzyme for enhanced ethyl acetate production in Escherichia coli. Biotechnology for Biofuels, 2020, 13, 76.	6.2	12
52	Metabolic energy conservation for fermentative product formation. Microbial Biotechnology, 2021, 14, 829-858.	2.0	12
53	Heterologous expression of Mus musculus immunoresponsive gene 1 (irg1) in Escherichia coli results in itaconate production. Frontiers in Microbiology, 2015, 6, 849.	1.5	11
54	Applying Non-canonical Redox Cofactors in Fermentation Processes. IScience, 2020, 23, 101471.	1.9	11

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55	High-cell-density cultivation of yeasts on disaccharides in oxygen-limited batch cultures. , 1996, 49, 621.		11
56	Enhancing Jatropha oil extraction yield from the kernels assisted by a xylan-degrading bacterium to preserve protein structure. Applied Microbiology and Biotechnology, 2011, 90, 2027-2036.	1.7	10
57	Metabolic flux ratio analysis by parallel 13C labeling of isoprenoid biosynthesis in Rhodobacter sphaeroides. Metabolic Engineering, 2020, 57, 228-238.	3.6	9
58	Co-production of hydrogen and ethyl acetate in Escherichia coli. Biotechnology for Biofuels, 2021, 14, 192.	6.2	8
59	Purification and characterization of an NAD+-linked formaldehyde dehydrogenase from the facultative RuMP cycle methylotrophArthrobacter P1. Antonie Van Leeuwenhoek, 1992, 62, 201-207.	0.7	7
60	Coconut oil extraction by the traditional Java method: An investigation of its potential application in aqueous Jatropha oil extraction. Biomass and Bioenergy, 2010, 34, 1141-1148.	2.9	7
61	Eat1-Like Alcohol Acyl Transferases From Yeasts Have High Alcoholysis and Thiolysis Activity. Frontiers in Microbiology, 2020, 11, 579844.	1.5	7
62	When metabolic prowess is too much of a good thing: how carbon catabolite repression and metabolic versatility impede production of esterified Î±,Ï‰-diols in Pseudomonas putida KT2440. Biotechnology for Biofuels, 2021, 14, 218.	6.2	7
63	Metabolic regulation in the yeastHansenula polymorpha. Growth of dihydroxyacetone kinase/glycerol kinase-negative mutants on mixtures of methanol and xylose in continuous cultures. Yeast, 1990, 6, 107-115.	0.8	6
64	Methanol-dependent production of dihydroxyacetone and glycerol by mutants of the methylotrophic yeast Hansenula polymorpha blocked in dihydroxyacetone kinase and glycerol kinase. Applied Microbiology and Biotechnology, 1990, 32, 693-698.	1.7	5
65	Microbial production of medium-chain-length Î±, Ï‰-diols via two-stage process under mild conditions. Bioresource Technology, 2022, 352, 127111.	4.8	4
66	Combination of ester biosynthesis and Ï‰-oxidation for production of mono-ethyl dicarboxylic acids and di-ethyl esters in a whole-cell biocatalytic setup with Escherichia coli. Microbial Cell Factories, 2017, 16, 185.	1.9	2