Volkmar Passoth

List of Publications by Year
in descending order

89 papers	3,251 citations	136885 32 h-index	161767 54 g-index
94 all docs	94 docs citations	94 times ranked	3269 citing authors

#	Article	IF	Citations
1	Near Chromosome-Level Genome Assembly and Annotation of Rhodotorula babjevae Strains Reveals High Intraspecific Divergence. Journal of Fungi (Basel, Switzerland), 2022, 8, 323.	1.5	1
2	Identification, Quantification and Kinetic Study of Carotenoids and Lipids in Rhodotorula toruloides CBS 14 Cultivated on Wheat Straw Hydrolysate. Fermentation, 2022, 8, 300.	1.4	16
3	Insertional tagging of the Scheffersomyces stipitis gene HEM25 involved in regulation of glucose and xylose alcoholic fermentation. Cell Biology International, 2021, 45, 507-517.	1.4	0
4	Microbial lipid production from crude glycerol and hemicellulosic hydrolysate with oleaginous yeasts. Biotechnology for Biofuels, 2021, 14, 65.	6.2	41
5	Oleaginous yeasts respond differently to carbon sources present in lignocellulose hydrolysate. Biotechnology for Biofuels, 2021, 14, 124.	6.2	37
6	Yeasts of the Blastobotrys genus are promising platform for lipid-based fuels and oleochemicals production. Applied Microbiology and Biotechnology, 2021, 105, 4879-4897.	1.7	4
7	Chromosome-level genome assembly and transcriptome-based annotation of the oleaginous yeast Rhodotorula toruloides CBS 14. Genomics, 2021, 113, 4022-4027.	1.3	9
8	Growth performance, nutrient digestibility and intestinal morphology of rainbow trout () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (Wickerhamomyces anomalus. Aquaculture Nutrition, 2020, 26, 275-286.	1.1	25
9	Spruce sugars and poultry hydrolysate as growth medium in repeated fed-batch fermentation processes for production of yeast biomass. Bioprocess and Biosystems Engineering, 2020, 43, 723-736.	1.7	26
10	Production and characterization of yeasts grown on media composed of spruce-derived sugars and protein hydrolysates from chicken by-products. Microbial Cell Factories, 2020, 19, 19.	1.9	30
11	FT-NIR: a tool for rapid intracellular lipid quantification in oleaginous yeasts. Biotechnology for Biofuels, 2019, 12, 169.	6.2	12
12	Assembly and Analysis of the Genome Sequence of the Yeast Brettanomyces naardenensis CBS 7540. Microorganisms, 2019, 7, 489.	1.6	8
13	Biochemical profiling, prediction of total lipid content and fatty acid profile in oleaginous yeasts by FTIR spectroscopy. Biotechnology for Biofuels, 2019, 12, 140.	6.2	70
14	Biofuel production from straw hydrolysates: current achievements and perspectives. Applied Microbiology and Biotechnology, 2019, 103, 5105-5116.	1.7	112
15	Chromosomal genome assembly of the ethanol production strain CBS 11270 indicates a highly dynamic genome structure in the yeast species Brettanomyces bruxellensis. PLoS ONE, 2019, 14, e0215077.	1.1	8
16	Yeasts and bacteria associated with kocho, an Ethiopian fermented food produced from enset (Ensete) Tj ETQq0 0 0 rgBT /Overlock 10	0.7	21
17	Oleaginous yeast as a component in fish feed. Scientific Reports, 2018, 8, 15945.	1.6	45
18	Bioethanol and lipid production from the enzymatic hydrolysate of wheat straw after furfural extraction. Applied Microbiology and Biotechnology, 2018, 102, 6269-6277.	1.7	46

#	Article	IF	Citations
19	Screening of intact yeasts and cell extracts to reduce Scrapie prions during biotransformation of food waste. Acta Veterinaria Scandinavica, 2018, 60, 9.	0.5	8
20	Effect of solid-state fermentation with Arxula adeninivorans or Hypocrea jecorina (anamorph) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 animals. Livestock Science, 2017, 199, 14-21.	0.6	7
21	Conventional and Non-conventional Yeasts for the Production of Biofuels. , 2017, , 385-416.		3
22	Lipids of Yeasts and Filamentous Fungi and Their Importance for Biotechnology. , 2017, , 149-204.		19
23	Effects of dietary inclusion of the yeasts Saccharomyces cerevisiae and Wickerhamomyces anomalus on gut microbiota of rainbow trout. Aquaculture, 2017, 473, 528-537.	1.7	66
24	Greenhouse gas performance of biochemical biodiesel production from straw: soil organic carbon changes and time-dependent climate impact. Biotechnology for Biofuels, 2017, 10, 217.	6.2	28
25	A systems analysis of biodiesel production from wheat straw using oleaginous yeast: process design, mass and energy balances. Biotechnology for Biofuels, 2016, 9, 229.	6.2	55
26	Lipid production from hemicellulose with Lipomyces starkeyi in a pH regulated fedâ€batch cultivation. Yeast, 2016, 33, 451-462.	0.8	56
27	A new sterilization and inoculation method in silage research. Grass and Forage Science, 2015, 70, 668-673.	1.2	1
28	De novo assembly of Dekkera bruxellensis: a multi technology approach using short and long-read sequencing and optical mapping. GigaScience, 2015, 4, 56.	3.3	26
29	Combined moist airtight storage and feed fermentation of barley by the yeast Wickerhamomyces anomalus and a lactic acid bacteria consortium. Frontiers in Plant Science, 2015, 6, 270.	1.7	12
30	Dekkera bruxellensisâ€"spoilage yeast with biotechnological potential, and a model for yeast evolution, physiology and competitiveness. FEMS Yeast Research, 2015, 15, fov021.	1.1	32
31	The effect of a combined biological and thermo-mechanical pretreatment of wheat straw on energy yields in coupled ethanol and methane generation. Bioresource Technology, 2015, 194, 7-13.	4.8	28
32	Interaction of Lactobacillus vini with the ethanolâ€producing yeasts Dekkera bruxellensis and Saccharomyces cerevisiae. Biotechnology and Applied Biochemistry, 2014, 61, 40-44.	1.4	28
33	Temperatureâ€dependent changes in the microbial storage flora of birch and spruce sawdust. Biotechnology and Applied Biochemistry, 2014, 61, 58-64.	1.4	3
34	Adaptation of Dekkera bruxellensis to lignocelluloseâ€based substrate. Biotechnology and Applied Biochemistry, 2014, 61, 51-57.	1.4	17
35	Strainâ€and temperatureâ€dependent changes of fatty acid composition in Wickerhamomyces anomalus and Blastobotrys adeninivorans. Biotechnology and Applied Biochemistry, 2014, 61, 45-50.	1.4	12
36	Molecular Mechanisms in Yeast Carbon Metabolism: Bioethanol and Other Biofuels. , 2014, , 217-259.		8

#	Article	IF	Citations
37	Physiology and gene expression profiles of Dekkera bruxellensis in response to carbon and nitrogen availability. Antonie Van Leeuwenhoek, 2013, 104, 855-868.	0.7	15
38	The influence of nitrate on the physiology of the yeast Dekkera bruxellensis grown under oxygen limitation. Yeast, 2013, 30, 111-117.	0.8	22
39	Enhanced ethanol production from wheat straw by integrated storage and pre-treatment (ISP). Enzyme and Microbial Technology, 2013, 52, 105-110.	1.6	26
40	Transcriptome of the Alternative Ethanol Production Strain Dekkera bruxellensis CBS 11270 in Sugar Limited, Low Oxygen Cultivation. PLoS ONE, 2013, 8, e58455.	1.1	36
41	Growth Inhibition of Various Enterobacteriaceae Species by the Yeast Hansenula anomala during Storage of Moist Cereal Grain. Applied and Environmental Microbiology, 2012, 78, 292-294.	1.4	13
42	Comment on â€œPretreatment of lignocellulosic material with fungi capable of higher lignin degradation and lower carbohydrate degradation improves substrate acid hydrolysis and the eventual conversion to ethanolâ€¹Original article by Kuhar et al. appears in Can. J. Microbiol. 54(4): 305â€“313 and is available at http://www.nrcresearchpress.com/doi/full/10.1139/W08-003. Reply by Kuhad appears in Can. J. Microbiol. 58: this issue, and is available at http://www.nrcresearchpress.com/doi/ful. Canadian Journal o	0.8	0
43	Physiological requirements for growth and competitiveness of Dekkera bruxellensis under oxygenâ€limited or anaerobic conditions. Yeast, 2012, 29, 265-274.	0.8	48
44	Genome sequence of Wickerhamomyces anomalus DSM 6766 reveals genetic basis of biotechnologically important antimicrobial activities. FEMS Yeast Research, 2012, 12, 382-386.	1.1	40
45	Description of Holtermanniella gen. nov., including Holtermanniella takashimae sp. nov. and four new combinations, and proposal of the order Holtermanniales to accommodate tremellomycetous yeasts of the Holtermannia clade. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 680-689.	0.8	44
46	Fermentation of lignocellulosic hydrolysate by the alternative industrial ethanol yeast Dekkera bruxellensis. Letters in Applied Microbiology, 2011, 53, 73-78.	1.0	34
47	Pichia anomala in grain biopreservation. Antonie Van Leeuwenhoek, 2011, 99, 57-62.	0.7	32
48	Past, present and future research directions with Pichia anomala. Antonie Van Leeuwenhoek, 2011, 99, 121-125.	0.7	54
49	Editorial 1st international Pichia anomala mini-symposium. Antonie Van Leeuwenhoek, 2011, 99, 1-3.	0.7	2
50	Improved bio-energy yields via sequential ethanol fermentation and biogas digestion of steam exploded oat straw. Bioresource Technology, 2011, 102, 4449-4455.	4.8	112
51	A mutation in the COX5 gene of the yeast Scheffersomyces stipitis alters utilization of amino acids as carbon source, ethanol formation and activity of cyanide insensitive respiration. Yeast, 2011, 28, 309-320.	0.8	6
52	Câ€•and Nâ€catabolic utilization of tricarboxylic acid cycleâ€related amino acids by Scheffersomyces stipitis and other yeasts. Yeast, 2011, 28, 375-390.	0.8	34
53	Bacterial Diversity at Different Sites of the Digestive Tract of Weaned Piglets Fed Liquid Diets. Asian-Australasian Journal of Animal Sciences, 2011, 24, 834-843.	2.4	6
54	Fermentation characteristics of Dekkera bruxellensis strains. Applied Microbiology and Biotechnology, 2010, 87, 1487-1497.	1.7	87

#	Article	IF	Citations
55	Effect of starter culture inoculation on feed hygiene and microbial population development in fermented pig feed composed of a cereal grain mix with wet wheat distillersÃ¢Â€Â™ grain. Journal of Applied Microbiology, 2010, 108, 129-138.	1.4	31
56	Microbial changes during storage of moist crimped cereal barley grain under Swedish farm conditions. Animal Feed Science and Technology, 2010, 156, 37-46.	1.1	31
57	Pichia anomala yeast improves feed hygiene during storage of moist crimped barley grain under Swedish farm conditions. Animal Feed Science and Technology, 2010, 156, 47-56.	1.1	37
58	Cryptococcus cerealis sp. nov. a psychrophilic yeast species isolated from fermented cereals. Antonie Van Leeuwenhoek, 2009, 96, 635-643.	0.7	10
59	Airtight storage of moist wheat grain improves bioethanol yields. Biotechnology for Biofuels, 2009, 2, 16.	6.2	17
60	Screening of yeast strains for phytase activity. FEMS Yeast Research, 2009, 9, 478-488.	1.1	69
61	Gut ecology, feed digestion and performance in weaned piglets fed liquid diets. Livestock Science, 2009, 125, 232-237.	0.6	20
62	Nonhomologous end joining and homologous recombination DNA repair pathways in integration mutagenesis in the xylose-fermenting yeastPichia stipitis. FEMS Yeast Research, 2008, 8, 735-743.	1.1	37
63	Biochemical and microbiological properties of a cereal mix fermented with whey, wet wheat distillersâ€™ grain or water at different temperatures. Animal Feed Science and Technology, 2008, 144, 137-148.	1.1	27
64	Population Diversity of Yeasts and Lactic Acid Bacteria in Pig Feed Fermented with Whey, Wet Wheat Distillers' Grains, or Water at Different Temperatures. Applied and Environmental Microbiology, 2008, 74, 1696-1703.	1.4	49
65	Dekkera bruxellensis and Lactobacillus vini Form a Stable Ethanol-Producing Consortium in a Commercial Alcohol Production Process. Applied and Environmental Microbiology, 2007, 73, 4354-4356.	1.4	93
66	Genome sequence of the lignocellulose-bioconverting and xylose-fermenting yeast Pichia stipitis. Nature Biotechnology, 2007, 25, 319-326.	9.4	449
67	Rhizopus oligosporus and yeast co-cultivation during barley tempeh fermentationâ€”Nutritional impact and real-time PCR quantification of fungal growth dynamics. Food Microbiology, 2007, 24, 393-402.	2.1	29
68	Oxygen and carbon source-regulated expression ofPDC andADH genes in the respiratory yeastPichia anomala. Yeast, 2006, 23, 1137-1149.	0.8	19
69	Biotechnology, physiology and genetics of the yeastPichia anomala. FEMS Yeast Research, 2006, 6, 3-13.	1.1	134
70	Amino acid supplementation, controlled oxygen limitation and sequential double induction improves heterologous xylanase production by. FEMS Yeast Research, 2005, 5, 677-683.	1.1	31
71	Aerobic induction of respiro-fermentative growth by decreasing oxygen tensions in the respiratory yeast Pichia stipitis. Applied Microbiology and Biotechnology, 2005, 67, 247-253.	1.7	39
72	Nutrient Effects on Biocontrol of Penicillium roqueforti by Pichia anomala J121 during Airtight Storage of Wheat. Applied and Environmental Microbiology, 2005, 71, 1865-1869.	1.4	80

#	Article	IF	Citations
73	Influence of ethyl acetate production and ploidy on the anti-mould activity ofPichia anomala. FEMS Microbiology Letters, 2004, 238, 133-137.	0.7	36
74	Identification of bacteria and yeasts from in vitro and surface-sterilized field samples of Ensete ventricosum by rDNA analysis. Biotechnology Letters, 2004, 26, 1867-1872.	1.1	7
75	Microfluidic biosensing systems : Part II. Monitoring the dynamic production of glucose and ethanol from microchip-immobilised yeast cells using enzymatic chemiluminescent Âµ-biosensors. Lab on A Chip, 2004, 4, 488-494.	3.1	31
76	Oxygen- and Glucose-Dependent Regulation of Central Carbon Metabolism in Pichia anomala. Applied and Environmental Microbiology, 2004, 70, 5905-5911.	1.4	114
77	Influence of ethyl acetate production and ploidy on the anti-mould activity of. FEMS Microbiology Letters, 2004, 238, 133-137.	0.7	46
78	Analysis of the hypoxia-inducedADH2promoter of the respiratory yeastPichia stipitisreveals a new mechanism for sensing of oxygen limitation in yeast. Yeast, 2003, 20, 39-51.	0.8	45
79	Non-conventional yeasts in antifungal application. Topics in Current Genetics, 2003, , 297-329.	0.7	17
80	Investigation of Transcriptional Regulation of the Fermentative ADH in Pichia stipitis Using an EGFP Reporter Gene. , 2003, , 241-244.		1
81	Mating and Segregation in Pichia stipitis. , 2003, , 215-219.		0
82	Freeze Transformation, Plasmid Reisolation and Stability in Pichia stipitis. , 2003, , 253-259.		0
83	Regulation of Fermentation and Respiration. , 2003, , 235-240.		0
84	Production of a heterologous endo-1,4-Î²-xylanase in the yeast Pichia stipitis with an O2-regulated promoter. Enzyme and Microbial Technology, 2000, 26, 781-784.	1.6	32
85	Molecular cloning of alcohol dehydrogenase genes of the yeastPichia stipitis and identification of the fermentative ADH. Yeast, 1998, 14, 1311-1325.	0.8	50
86	Peculiarities of the regulation of fermentation and respiration in the crabtree-negative, xylose-fermenting yeastPichia stipitis. Applied Biochemistry and Biotechnology, 1996, 57-58, 201-212.	1.4	65
87	Characterization of the genetic system of the xylose-fermenting yeast Pichia stipitis. Current Microbiology, 1996, 33, 237-242.	1.0	31
88	Peculiarities of the Regulation of Fermentation and Respiration in the Crabtree-Negative, Xylose-Fermenting Yeast Pichia stipitis. , 1996, , 201-212.		14
89	The electrophoretic banding pattern of the chromosomes of Pichia stipitis and Candida shehatae. Current Genetics, 1992, 22, 429-431.	0.8	28