

Volkmar Passoth

List of Publications by Year in descending order

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89
papers

3,251
citations

136885

32
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all docs

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docs citations

94
times ranked

3269
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequence of the lignocellulose-bioconverting and xylose-fermenting yeast <i>Pichia stipitis</i> . <i>Nature Biotechnology</i> , 2007, 25, 319-326.	9.4	449
2	Biotechnology, physiology and genetics of the yeast <i>Pichia anomala</i> . <i>FEMS Yeast Research</i> , 2006, 6, 3-13.	1.1	134
3	Oxygen- and Glucose-Dependent Regulation of Central Carbon Metabolism in <i>Pichia anomala</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 5905-5911.	1.4	114
4	Improved bio-energy yields via sequential ethanol fermentation and biogas digestion of steam exploded oat straw. <i>Bioresource Technology</i> , 2011, 102, 4449-4455.	4.8	112
5	Biofuel production from straw hydrolysates: current achievements and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5105-5116.	1.7	112
6	<i>Dekkera bruxellensis</i> and <i>Lactobacillus vini</i> Form a Stable Ethanol-Producing Consortium in a Commercial Alcohol Production Process. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4354-4356.	1.4	93
7	Fermentation characteristics of <i>Dekkera bruxellensis</i> strains. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1487-1497.	1.7	87
8	Nutrient Effects on Biocontrol of <i>Penicillium roqueforti</i> by <i>Pichia anomala</i> J121 during Airtight Storage of Wheat. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1865-1869.	1.4	80
9	Biochemical profiling, prediction of total lipid content and fatty acid profile in oleaginous yeasts by FTIR spectroscopy. <i>Biotechnology for Biofuels</i> , 2019, 12, 140.	6.2	70
10	Screening of yeast strains for phytase activity. <i>FEMS Yeast Research</i> , 2009, 9, 478-488.	1.1	69
11	Effects of dietary inclusion of the yeasts <i>Saccharomyces cerevisiae</i> and <i>Wickerhamomyces anomalus</i> on gut microbiota of rainbow trout. <i>Aquaculture</i> , 2017, 473, 528-537.	1.7	66
12	Peculiarities of the regulation of fermentation and respiration in the crabtree-negative, xylose-fermenting yeast <i>Pichia stipitis</i> . <i>Applied Biochemistry and Biotechnology</i> , 1996, 57-58, 201-212.	1.4	65
13	Lipid production from hemicellulose with <i>Lipomyces starkeyi</i> in a pH regulated fed-batch cultivation. <i>Yeast</i> , 2016, 33, 451-462.	0.8	56
14	A systems analysis of biodiesel production from wheat straw using oleaginous yeast: process design, mass and energy balances. <i>Biotechnology for Biofuels</i> , 2016, 9, 229.	6.2	55
15	Past, present and future research directions with <i>Pichia anomala</i> . <i>Antonie Van Leeuwenhoek</i> , 2011, 99, 121-125.	0.7	54
16	Molecular cloning of alcohol dehydrogenase genes of the yeast <i>Pichia stipitis</i> and identification of the fermentative ADH. <i>Yeast</i> , 1998, 14, 1311-1325.	0.8	50
17	Population Diversity of Yeasts and Lactic Acid Bacteria in Pig Feed Fermented with Whey, Wet Wheat Distillers' Grains, or Water at Different Temperatures. <i>Applied and Environmental Microbiology</i> , 2008, 74, 1696-1703.	1.4	49
18	Physiological requirements for growth and competitiveness of <i>Dekkera bruxellensis</i> under oxygen-limited or anaerobic conditions. <i>Yeast</i> , 2012, 29, 265-274.	0.8	48

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19	Influence of ethyl acetate production and ploidy on the anti-mould activity of. FEMS Microbiology Letters, 2004, 238, 133-137.	0.7	46
20	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
21	Analysis of the hypoxia-induced ADH2 promoter of the respiratory yeast <i>Pichia stipitis</i> reveals a new mechanism for sensing of oxygen limitation in yeast. Yeast, 2003, 20, 39-51.	0.8	45
22	Oleaginous yeast as a component in fish feed. Scientific Reports, 2018, 8, 15945.	1.6	45
23	Description of <i>Holtermanniella</i> gen. nov., including <i>Holtermanniella takashimae</i> 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
24	Microbial lipid production from crude glycerol and hemicellulosic hydrolysate with oleaginous yeasts. Biotechnology for Biofuels, 2021, 14, 65.	6.2	41
25	Genome sequence of <i>Wickerhamomyces anomalus</i> DSM 6766 reveals genetic basis of biotechnologically important antimicrobial activities. FEMS Yeast Research, 2012, 12, 382-386.	1.1	40
26	Aerobic induction of respiro-fermentative growth by decreasing oxygen tensions in the respiratory yeast <i>Pichia stipitis</i> . Applied Microbiology and Biotechnology, 2005, 67, 247-253.	1.7	39
27	Nonhomologous end joining and homologous recombination DNA repair pathways in integration mutagenesis in the xylose-fermenting yeast <i>Pichia stipitis</i> . FEMS Yeast Research, 2008, 8, 735-743.	1.1	37
28	<i>Pichia anomala</i> 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
29	Oleaginous yeasts respond differently to carbon sources present in lignocellulose hydrolysate. Biotechnology for Biofuels, 2021, 14, 124.	6.2	37
30	Influence of ethyl acetate production and ploidy on the anti-mould activity of <i>Pichia anomala</i> . FEMS Microbiology Letters, 2004, 238, 133-137.	0.7	36
31	Transcriptome of the Alternative Ethanol Production Strain <i>Dekkera bruxellensis</i> CBS 11270 in Sugar Limited, Low Oxygen Cultivation. PLoS ONE, 2013, 8, e58455.	1.1	36
32	Fermentation of lignocellulosic hydrolysate by the alternative industrial ethanol yeast <i>Dekkera bruxellensis</i> . Letters in Applied Microbiology, 2011, 53, 73-78.	1.0	34
33	C ¹³ - and N ¹⁵ -catabolic utilization of tricarboxylic acid cycle-related amino acids by <i>Scheffersomyces stipitis</i> and other yeasts. Yeast, 2011, 28, 375-390.	0.8	34
34	Production of a heterologous endo-1,4-β-xylanase in the yeast <i>Pichia stipitis</i> with an O ₂ -regulated promoter. Enzyme and Microbial Technology, 2000, 26, 781-784.	1.6	32
35	<i>Pichia anomala</i> in grain biopreservation. Antonie Van Leeuwenhoek, 2011, 99, 57-62.	0.7	32
36	<i>Dekkera bruxellensis</i> "spoilage yeast with biotechnological potential, and a model for yeast evolution, physiology and competitiveness. FEMS Yeast Research, 2015, 15, fov021.	1.1	32

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37	Characterization of the genetic system of the xylose-fermenting yeast <i>Pichia stipitis</i> . <i>Current Microbiology</i> , 1996, 33, 237-242.	1.0	31
38	Microfluidic biosensing systems : Part II. Monitoring the dynamic production of glucose and ethanol from microchip-immobilised yeast cells using enzymatic chemiluminescent μ -biosensors. <i>Lab on A Chip</i> , 2004, 4, 488-494.	3.1	31
39	Amino acid supplementation, controlled oxygen limitation and sequential double induction improves heterologous xylanase production by. <i>FEMS Yeast Research</i> , 2005, 5, 677-683.	1.1	31
40	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 distillers' grain. <i>Journal of Applied Microbiology</i> , 2010, 108, 129-138.	1.4	31
41	Microbial changes during storage of moist crimped cereal barley grain under Swedish farm conditions. <i>Animal Feed Science and Technology</i> , 2010, 156, 37-46.	1.1	31
42	Production and characterization of yeasts grown on media composed of spruce-derived sugars and protein hydrolysates from chicken by-products. <i>Microbial Cell Factories</i> , 2020, 19, 19.	1.9	30
43	<i>Rhizopus oligosporus</i> and yeast co-cultivation during barley tempeh fermentation – Nutritional impact and real-time PCR quantification of fungal growth dynamics. <i>Food Microbiology</i> , 2007, 24, 393-402.	2.1	29
44	The electrophoretic banding pattern of the chromosomes of <i>Pichia stipitis</i> and <i>Candida shehatae</i> . <i>Current Genetics</i> , 1992, 22, 429-431.	0.8	28
45	Interaction of <i>Lactobacillus vini</i> with the ethanol-producing yeasts <i>Dekkera bruxellensis</i> and <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 40-44.	1.4	28
46	The effect of a combined biological and thermo-mechanical pretreatment of wheat straw on energy yields in coupled ethanol and methane generation. <i>Bioresource Technology</i> , 2015, 194, 7-13.	4.8	28
47	Greenhouse gas performance of biochemical biodiesel production from straw: soil organic carbon changes and time-dependent climate impact. <i>Biotechnology for Biofuels</i> , 2017, 10, 217.	6.2	28
48	Biochemical and microbiological properties of a cereal mix fermented with whey, wet wheat distillers' grain or water at different temperatures. <i>Animal Feed Science and Technology</i> , 2008, 144, 137-148.	1.1	27
49	Enhanced ethanol production from wheat straw by integrated storage and pre-treatment (ISP). <i>Enzyme and Microbial Technology</i> , 2013, 52, 105-110.	1.6	26
50	De novo assembly of <i>Dekkera bruxellensis</i> : a multi technology approach using short and long-read sequencing and optical mapping. <i>GigaScience</i> , 2015, 4, 56.	3.3	26
51	Spruce sugars and poultry hydrolysate as growth medium in repeated fed-batch fermentation processes for production of yeast biomass. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 723-736.	1.7	26
52	Growth performance, nutrient digestibility and intestinal morphology of rainbow trout (<i>Oncorhynchus mykiss</i>) fed with <i>Wickerhamomyces anomalus</i> . <i>Aquaculture Nutrition</i> , 2020, 26, 275-286.	1.1	25
53	The influence of nitrate on the physiology of the yeast <i>Dekkera bruxellensis</i> grown under oxygen limitation. <i>Yeast</i> , 2013, 30, 111-117.	0.8	22
54	Yeasts and bacteria associated with kocho, an Ethiopian fermented food produced from enset (<i>Ensete</i>)	0.78	21

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55	Gut ecology, feed digestion and performance in weaned piglets fed liquid diets. <i>Livestock Science</i> , 2009, 125, 232-237.	0.6	20
56	Oxygen and carbon source-regulated expression of PDC and ADH genes in the respiratory yeast <i>Pichia anomala</i> . <i>Yeast</i> , 2006, 23, 1137-1149.	0.8	19
57	Lipids of Yeasts and Filamentous Fungi and Their Importance for Biotechnology. , 2017, , 149-204.		19
58	Non-conventional yeasts in antifungal application. <i>Topics in Current Genetics</i> , 2003, , 297-329.	0.7	17
59	Airtight storage of moist wheat grain improves bioethanol yields. <i>Biotechnology for Biofuels</i> , 2009, 2, 16.	6.2	17
60	Adaptation of <i>Dekkera bruxellensis</i> to lignocellulose-based substrate. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 51-57.	1.4	17
61	Identification, Quantification and Kinetic Study of Carotenoids and Lipids in <i>Rhodotorula toruloides</i> CBS 14 Cultivated on Wheat Straw Hydrolysate. <i>Fermentation</i> , 2022, 8, 300.	1.4	16
62	Physiology and gene expression profiles of <i>Dekkera bruxellensis</i> in response to carbon and nitrogen availability. <i>Antonie Van Leeuwenhoek</i> , 2013, 104, 855-868.	0.7	15
63	Peculiarities of the Regulation of Fermentation and Respiration in the Crabtree-Negative, Xylose-Fermenting Yeast <i>Pichia stipitis</i> . , 1996, , 201-212.		14
64	Growth Inhibition of Various Enterobacteriaceae Species by the Yeast <i>Hansenula anomala</i> during Storage of Moist Cereal Grain. <i>Applied and Environmental Microbiology</i> , 2012, 78, 292-294.	1.4	13
65	Strain- and temperature-dependent changes of fatty acid composition in <i>Wickerhamomyces anomalus</i> and <i>Blastobotrys adenivorans</i> . <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 45-50.	1.4	12
66	Combined moist airtight storage and feed fermentation of barley by the yeast <i>Wickerhamomyces anomalus</i> and a lactic acid bacteria consortium. <i>Frontiers in Plant Science</i> , 2015, 6, 270.	1.7	12
67	FT-NIR: a tool for rapid intracellular lipid quantification in oleaginous yeasts. <i>Biotechnology for Biofuels</i> , 2019, 12, 169.	6.2	12
68	<i>Cryptococcus cerealis</i> sp. nov. a psychrophilic yeast species isolated from fermented cereals. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 635-643.	0.7	10
69	Chromosome-level genome assembly and transcriptome-based annotation of the oleaginous yeast <i>Rhodotorula toruloides</i> CBS 14. <i>Genomics</i> , 2021, 113, 4022-4027.	1.3	9
70	Screening of intact yeasts and cell extracts to reduce Scrapie prions during biotransformation of food waste. <i>Acta Veterinaria Scandinavica</i> , 2018, 60, 9.	0.5	8
71	Assembly and Analysis of the Genome Sequence of the Yeast <i>Brettanomyces naardenensis</i> CBS 7540. <i>Microorganisms</i> , 2019, 7, 489.	1.6	8
72	Chromosomal genome assembly of the ethanol production strain CBS 11270 indicates a highly dynamic genome structure in the yeast species <i>Brettanomyces bruxellensis</i> . <i>PLoS ONE</i> , 2019, 14, e0215077.	1.1	8

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73	Molecular Mechanisms in Yeast Carbon Metabolism: Bioethanol and Other Biofuels. , 2014, , 217-259.		8
74	Identification of bacteria and yeasts from in vitro and surface-sterilized field samples of <i>Ensete ventricosum</i> by rDNA analysis. <i>Biotechnology Letters</i> , 2004, 26, 1867-1872.	1.1	7
75	Effect of solid-state fermentation with <i>Arxula adenivorans</i> or <i>Hypocrea jecorina</i> (anamorph) Tj ETQq1 1 0.784314 rgBT /Overlock 10 animals. <i>Livestock Science</i> , 2017, 199, 14-21.	0.6	7
76	A mutation in the <i>COX5</i> gene of the yeast <i>Scheffersomyces stipitis</i> alters utilization of amino acids as carbon source, ethanol formation and activity of cyanide insensitive respiration. <i>Yeast</i> , 2011, 28, 309-320.	0.8	6
77	Bacterial Diversity at Different Sites of the Digestive Tract of Weaned Piglets Fed Liquid Diets. <i>Asian-Australasian Journal of Animal Sciences</i> , 2011, 24, 834-843.	2.4	6
78	Yeasts of the <i>Blastobotrys</i> genus are promising platform for lipid-based fuels and oleochemicals production. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 4879-4897.	1.7	4
79	Temperature-dependent changes in the microbial storage flora of birch and spruce sawdust. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 58-64.	1.4	3
80	Conventional and Non-conventional Yeasts for the Production of Biofuels. , 2017, , 385-416.		3
81	Editorial 1st international <i>Pichia anomala</i> mini-symposium. <i>Antonie Van Leeuwenhoek</i> , 2011, 99, 1-3.	0.7	2
82	A new sterilization and inoculation method in silage research. <i>Grass and Forage Science</i> , 2015, 70, 668-673.	1.2	1
83	Investigation of Transcriptional Regulation of the Fermentative ADH in <i>Pichia stipitis</i> Using an EGFP Reporter Gene. , 2003, , 241-244.		1
84	Near Chromosome-Level Genome Assembly and Annotation of <i>Rhodotorula babjevae</i> Strains Reveals High Intraspecific Divergence. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 323.	1.5	1
85	Comment on accepted treatment of lignocellulosic material with fungi capable of higher lignin degradation and lower carbohydrate degradation improves substrate acid hydrolysis and the eventual conversion to ethanol ¹ Original article by Kuhar et al. appears in <i>Can. J. Microbiol.</i> 54(4): 305-313 and is available at http://www.nrcresearchpress.com/doi/full/10.1139/W08-003 . Reply by Kuhar appears in <i>Can. J. Microbiol.</i> 58(4): 589-590, this issue, and is available at http://www.nrcresearchpress.com/doi/full/10.1139/CJM-2010-0101 .	0.8	0
86	Insertional tagging of the <i>Scheffersomyces stipitis</i> gene HEM25 involved in regulation of glucose and xylose alcoholic fermentation. <i>Cell Biology International</i> , 2021, 45, 507-517.	1.4	0
87	Mating and Segregation in <i>Pichia stipitis</i> . , 2003, , 215-219.		0
88	Freeze Transformation, Plasmid Reisolation and Stability in <i>Pichia stipitis</i> . , 2003, , 253-259.		0
89	Regulation of Fermentation and Respiration. , 2003, , 235-240.		0