Harald Pichler

List of Publications by Year
in descending order

60 papers	3,710 citations	186265 28 h-index	128289 60 g-index
65 all docs	65 docs citations	65 times ranked	4644 citing authors

#	Article	IF	Citations
1	Nanoscale Structure and Dynamics of Model Membrane Lipid Raft Systems, Studied by Neutron Scattering Methods. Frontiers in Physics, 2022, 10, .	2.1	5
2	Strains and Molecular Tools for Recombinant Protein Production in Pichia pastoris. Methods in Molecular Biology, 2022, , 79-112.	0.9	2
3	Apolipoprotein E Binding Drives Structural and Compositional Rearrangement of mRNA-Containing Lipid Nanoparticles. ACS Nano, 2021, 15, 6709-6722.	14.6	138
4	ApoE and ApoE Nascent-Like HDL Particles at Model Cellular Membranes: Effect of Protein Isoform and Membrane Composition. Frontiers in Chemistry, 2021, 9, 630152.	3.6	6
5	Metabolic fluxes for nutritional flexibility of <i>Mycobacterium tuberculosis</i>. Molecular Systems Biology, 2021, 17, e10280.	7.2	19
6	SARS-CoV-2 spike protein removes lipids from model membranes and interferes with the capacity of high density lipoprotein to exchange lipids. Journal of Colloid and Interface Science, 2021, 602, 732-739.	9.4	18
7	Engineering of <i>Saccharomyces cerevisiae</i> for the production of (+)â€ambrein. Yeast, 2020, 37, 163-172.	1.7	8
8	Secretion ofPseudomonas aeruginosaLipoxygenase byPichia pastorisupon Glycerol Feed. Biotechnology Journal, 2020, 15, 2000089.	3.5	3
9	Lipoprotein ability to exchange and remove lipids from model membranes as a function of fatty acid saturation and presence of cholesterol. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158769.	2.4	12
10	A recommendation for suitable technologies for an indoor farming framework. Elektrotechnik Und Informationstechnik, 2020, 137, 370-374.	1.1	6
11	Photobiocatalytic synthesis of chiral secondary fatty alcohols from renewable unsaturated fatty acids. Nature Communications, 2020, 11, 2258.	12.8	58
12	Recombinant Lipoxygenases and Hydroperoxide Lyases for the Synthesis of Green Leaf Volatiles. Journal of Agricultural and Food Chemistry, 2019, 67, 13367-13392.	5.2	39
13	Towards a secure and self-adapting smart indoor farming framework. Elektrotechnik Und Informationstechnik, 2019, 136, 341-344.	1.1	16
14	Identifying and engineering the ideal microbial terpenoid production host. Applied Microbiology and Biotechnology, 2019, 103, 5501-5516.	3.6	114
15	<i>Pichia pastoris</i> proteaseâ€deficient and auxotrophic strains generated by a novel, userâ€friendly vector toolbox for gene deletion. Yeast, 2019, 36, 557-570.	1.7	17
16	Exploring Castellaniella defragrans Linalool (De)hydratase-Isomerase for Enzymatic Hydration of Alkenes. Molecules, 2019, 24, 2092.	3.8	4
17	The Production of Matchout-Deuterated Cholesterol and the Study of Bilayer-Cholesterol Interactions. Scientific Reports, 2019, 9, 5118.	3.3	22
18	Evolving the Promiscuity of Elizabethkingia meningoseptica Oleate Hydratase for the Regioâ€•and Stereoselective Hydration of Oleic Acid Derivatives. Angewandte Chemie - International Edition, 2019, 58, 7480-7484.	13.8	27

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19	Weiterentwicklung der Substrattoleranz von Elizabethkingia meningoseptica Oleathydratase zur regioâ€•und stereoselektiven Hydratisierung von Ã–lsÃ¤urederivaten. Angewandte Chemie, 2019, 131, 7558-7563.	2.0	8
20	Membrane Protein Production in Yeast: Modification of Yeast Membranes for Human Membrane Protein Production. Methods in Molecular Biology, 2019, 1923, 265-285.	0.9	7
21	The impact of deuteration on natural and synthetic lipids: A neutron diffraction study. Colloids and Surfaces B: Biointerfaces, 2018, 168, 126-133.	5.0	27
22	Localization of Cholesterol within Supported Lipid Bilayers Made of a Natural Extract of Tailor-Deuterated Phosphatidylcholine. Langmuir, 2018, 34, 472-479.	3.5	36
23	Perdeuteration of cholesterol for neutron scattering applications using recombinant Pichia pastoris. Chemistry and Physics of Lipids, 2018, 212, 80-87.	3.2	27
24	On the current role of hydratases in biocatalysis. Applied Microbiology and Biotechnology, 2018, 102, 5841-5858.	3.6	50
25	Modification of membrane lipid compositions in single-celled organisms â€“ From basics to applications. Methods, 2018, 147, 50-65.	3.8	29
26	Whole-cell (+)-ambrein production in the yeast Pichia pastoris. Metabolic Engineering Communications, 2018, 7, e00077.	3.6	24
27	Recombinant expression, purification and biochemical characterization of kievitone hydratase from Nectria haematococca. PLoS ONE, 2018, 13, e0192653.	2.5	6
28	Screening for improved isoprenoid biosynthesis in microorganisms. Journal of Biotechnology, 2016, 235, 112-120.	3.8	30
29	Enhancing cytochrome P450-mediated conversions in P. pastoris through RAD52 over-expression and optimizing the cultivation conditions. Fungal Genetics and Biology, 2016, 89, 114-125.	2.1	22
30	Production of Aromatic Plant Terpenoids in Recombinant Bakerâ€™s Yeast. Methods in Molecular Biology, 2016, 1405, 79-89.	0.9	4
31	Structureâ€Based Mechanism of Oleate Hydratase from <i>Elizabethkingia meningoseptica</i>. ChemBioChem, 2015, 16, 1730-1734.	2.6	66
32	Sphingolipids regulate telomere clustering by affecting transcriptional levels of genes involved in telomere homeostasis. Journal of Cell Science, 2015, 128, 2454-67.	2.0	11
33	The influence of residual water on the solid-state properties of freeze-dried fibrinogen. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 91, 1-8.	4.3	7
34	Overâ€expression of <i>ICE2</i> stabilizes cytochrome P450 reductase in <i>Saccharomyces cerevisiae</i> and <i>Pichia pastoris</i>. Biotechnology Journal, 2015, 10, 623-635.	3.5	34
35	Pichia pastoris Aft1 - a novel transcription factor, enhancing recombinant protein secretion. Microbial Cell Factories, 2014, 13, 120.	4.0	33
36	Production of the sesquiterpenoid (+)-nootkatone by metabolic engineering of Pichia pastoris. Metabolic Engineering, 2014, 24, 18-29.	7.0	155

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37	Protein expression in Pichia pastoris: recent achievements and perspectives for heterologous protein production. Applied Microbiology and Biotechnology, 2014, 98, 5301-5317.	3.6	744
38	Overexpression of membrane proteins from higher eukaryotes in yeasts. Applied Microbiology and Biotechnology, 2014, 98, 7671-7698.	3.6	27
39	Strains and Molecular Tools for Recombinant Protein Production in Pichia pastoris. Methods in Molecular Biology, 2014, 1152, 87-111.	0.9	7
40	Yeast metabolic engineering â€“ Targeting sterol metabolism and terpenoid formation. Progress in Lipid Research, 2013, 52, 277-293.	11.6	76
41	A novel cholesterol-producing Pichia pastoris strain is an ideal host for functional expression of human Na,K-ATPase Î±3Î²1 isoform. Applied Microbiology and Biotechnology, 2013, 97, 9465-9478.	3.6	42
42	Enzymatic Aerobic Alkene Cleavage Catalyzed by a Mn³⁺â€Dependent Proteinase A Homologue. ChemBioChem, 2013, 14, 2427-2430.	2.6	18
43	Production of human cytochrome P450 2D6 drug metabolites with recombinant microbes â€“ a comparative study. Biotechnology Journal, 2012, 7, 1346-1358.	3.5	41
44	Pichia pastoris as a cell factoryâ€"examining the secretory capabilities. New Biotechnology, 2012, 29, S92-S93.	4.4	0
45	A stable yeast strain efficiently producing cholesterol instead of ergosterol is functional for tryptophan uptake, but not weak organic acid resistance. Metabolic Engineering, 2011, 13, 555-569.	7.0	95
46	Application of Designed Enzymes in Organic Synthesis. Chemical Reviews, 2011, 111, 4141-4164.	47.7	144
47	High-quality genome sequence of Pichia pastoris CBS7435. Journal of Biotechnology, 2011, 154, 312-320.	3.8	146
48	Functional Interactions between Sphingolipids and Sterols in Biological Membranes Regulating Cell Physiology. Molecular Biology of the Cell, 2009, 20, 2083-2095.	2.1	196
49	Tuning microbial hosts for membrane protein production. Microbial Cell Factories, 2009, 8, 69.	4.0	64
50	Alternative pig liver esterase (APLE) â€“ Cloning, identification and functional expression in Pichia pastoris of a versatile new biocatalyst. Journal of Biotechnology, 2008, 133, 301-310.	3.8	33
51	Yeast<i>ARV1</i>Is Required for Efficient Delivery of an Early GPI Intermediate to the First Mannosyltransferase during GPI Assembly and Controls Lipid Flow from the Endoplasmic Reticulum. Molecular Biology of the Cell, 2008, 19, 2069-2082.	2.1	97
52	Lipid requirements for endocytosis in yeast. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 442-454.	2.4	24
53	Alternative pig liver esterase (APLE): Discovery and functional expression of a high-value biocatalyst. Journal of Biotechnology, 2007, 131, S215.	3.8	1
54	Multiple lipid transport pathways to the plasma membrane in yeast. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1687, 130-140.	2.4	38

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55	Where sterols are required for endocytosis. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1666, 51-61.	2.6	87
56	Subcellular localization of yeast Sec14 homologues and their involvement in regulation of phospholipid turnover. FEBS Journal, 2003, 270, 3133-3145.	0.2	57
57	Multiple Functions of Sterols in Yeast Endocytosis. Molecular Biology of the Cell, 2002, 13, 2664-2680.	2.1	151
58	A subfraction of the yeast endoplasmic reticulum associates with the plasma membrane and has a high capacity to synthesize lipids. FEBS Journal, 2001, 268, 2351-2361.	0.2	237
59	PDR16 and PDR17, Two Homologous Genes ofSaccharomyces cerevisiae, Affect Lipid Biosynthesis and Resistance to Multiple Drugs. Journal of Biological Chemistry, 1999, 274, 1934-1941.	3.4	142
60	Specific Sterols Required for the Internalization Step of Endocytosis in Yeast. Molecular Biology of the Cell, 1999, 10, 3943-3957.	2.1	151