Jens Schrader

List of Publications by Year
in descending order

84 papers	3,893 citations	109137 35 h-index	128067 60 g-index
88 all docs	88 docs citations	88 times ranked	4196 citing authors

#	Article	IF	Citations
1	Methanol-based industrial biotechnology: current status and future perspectives of methylotrophic bacteria. Trends in Biotechnology, 2009, 27, 107-115.	4.9	245
2	Biotechnological production of astaxanthin with Phaffia rhodozyma/Xanthophyllomyces dendrorhous. Applied Microbiology and Biotechnology, 2011, 89, 555-571.	1.7	225
3	Electroactive bacteriaâ€"molecular mechanisms and genetic tools. Applied Microbiology and Biotechnology, 2014, 98, 8481-8495.	1.7	194
4	Microbial Cell Factories for the Production of Terpenoid Flavor and Fragrance Compounds. Journal of Agricultural and Food Chemistry, 2018, 66, 2247-2258.	2.4	148
5	Biotechnological production of limonene in microorganisms. Applied Microbiology and Biotechnology, 2016, 100, 2927-2938.	1.7	136
6	Reactor concepts for bioelectrochemical syntheses and energy conversion. Trends in Biotechnology, 2014, 32, 645-655.	4.9	134
7	Cell factory applications of the yeast Kluyveromyces marxianus for the biotechnological production of natural flavour and fragrance molecules. Yeast, 2015, 32, 3-16.	0.8	122
8	Substrate promiscuity of RdCCD1, a carotenoid cleavage oxygenase from Rosa damascena. Phytochemistry, 2009, 70, 457-464.	1.4	121
9	Microparticleâ€enhanced cultivation of filamentous microorganisms: Increased chloroperoxidase formation by Caldariomyces fumago as an example. Biotechnology and Bioengineering, 2008, 99, 491-498.	1.7	117
10	Methylobacterium extorquens: methylotrophy and biotechnological applications. Applied Microbiology and Biotechnology, 2015, 99, 517-534.	1.7	116
11	An aqueousâ€"organic two-phase bioprocess for efficient production of the natural aroma chemicals 2-phenylethanol and 2-phenylethylacetate with yeast. Applied Microbiology and Biotechnology, 2006, 71, 440-443.	1.7	112
12	Gas diffusion electrode as novel reaction system for an electro-enzymatic process with chloroperoxidase. Green Chemistry, 2011, 13, 2686.	4.6	91
13	Engineering Methylobacterium extorquens for de novo synthesis of the sesquiterpenoid Î±-humulene from methanol. Metabolic Engineering, 2015, 32, 82-94.	3.6	91
14	Production of 2-phenylethanol and 2-phenylethylacetate fromL-phenylalanine by coupling whole-cell biocatalysis with organophilic pervaporation. Biotechnology and Bioengineering, 2005, 92, 624-634.	1.7	77
15	Immobilized redox mediators for electrochemical NAD(P)+ regeneration. Applied Microbiology and Biotechnology, 2012, 93, 2251-2264.	1.7	75
16	Immobilization of histidine-tagged proteins on electrodes. Colloids and Surfaces B: Biointerfaces, 2011, 88, 539-551.	2.5	74
17	De novo production of the monoterpenoid geranic acid by metabolically engineered Pseudomonas putida. Microbial Cell Factories, 2014, 13, 170.	1.9	73
18	Enzymatic halogenation of the phenolic monoterpenes thymol and carvacrol with chloroperoxidase. Green Chemistry, 2014, 16, 1104-1108.	4.6	69

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19	Integrated bioprocess for the oxidation of limonene to perillic acid with Pseudomonas putida DSM 12264. Process Biochemistry, 2009, 44, 764-771.	1.8	63
20	P450BM-3-catalyzed whole-cell biotransformation of Î±-pinene with recombinant Escherichia coli in an aqueousâ€“organic two-phase system. Applied Microbiology and Biotechnology, 2009, 83, 849-857.	1.7	62
21	Integrated bioprocess for enhanced production of natural flavors and fragrances by Ceratocystis moniliformis. New Biotechnology, 2001, 17, 137-142.	2.7	61
22	Improvement of P450BM-3 whole-cell biocatalysis by integrating heterologous cofactor regeneration combining glucose facilitator and dehydrogenase in E. coli. Applied Microbiology and Biotechnology, 2008, 78, 55-65.	1.7	61
23	Multiple improvement of astaxanthin biosynthesis in Xanthophyllomyces dendrorhous by a combination of conventional mutagenesis and metabolic pathway engineering. Biotechnology Letters, 2013, 35, 565-569.	1.1	58
24	Synthesis of (-)-menthol fatty acid esters in and from (-)-menthol and fatty acids â€“ novel concept for lipase catalyzed esterification based on eutectic solvents. Molecular Catalysis, 2018, 458, 67-72.	1.0	57
25	Thioesterases for ethylmalonylâ€“CoA pathway derived dicarboxylic acid production in Methylobacterium extorquens AM1. Applied Microbiology and Biotechnology, 2014, 98, 4533-4544.	1.7	55
26	Synthesis of green note aroma compounds by biotransformation of fatty acids using yeast cells coexpressing lipoxygenase and hydroperoxide lyase. Applied Microbiology and Biotechnology, 2012, 93, 159-168.	1.7	53
27	Partial Methylation at Am100 in 18S rRNA of Baker's Yeast Reveals Ribosome Heterogeneity on the Level of Eukaryotic rRNA Modification. PLoS ONE, 2014, 9, e89640.	1.1	49
28	Improving 2-phenylethanol and 6-pentyl-Î±-pyrone production with fungi by microparticle-enhanced cultivation (MPEC). Yeast, 2014, 32, n/a-n/a.	0.8	46
29	Fungal Biotransformation of (Â±)-Linalool. Journal of Agricultural and Food Chemistry, 2008, 56, 3287-3296.	2.4	44
30	High-level production of ethylmalonyl-CoA pathway-derived dicarboxylic acids by Methylobacterium extorquens under cobalt-deficient conditions and by polyhydroxybutyrate negative strains. Applied Microbiology and Biotechnology, 2015, 99, 3407-3419.	1.7	44
31	Microbial Flavour Production. , 2007, , 507-574.		42
32	Production of the aroma chemicals 3-(methylthio)-1-propanol and 3-(methylthio)-propylacetate with yeasts. Applied Microbiology and Biotechnology, 2008, 80, 579-587.	1.7	42
33	Biooxidation of monoterpenes with bacterial monooxygenases. Process Biochemistry, 2011, 46, 1885-1899.	1.8	40
34	Microparticle based morphology engineering of filamentous microorganisms for industrial bio-production. Biotechnology Letters, 2012, 34, 1975-1982.	1.1	38
35	Electroenzymatic process to overcome enzyme instabilities. Catalysis Communications, 2014, 51, 82-85.	1.6	38
36	Electrochemical regeneration of oxidised nicotinamide cofactors in a scalable reactor. Journal of Molecular Catalysis B: Enzymatic, 2014, 103, 94-99.	1.8	38

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37	Metabolite Profiling Uncovers Plasmid-Induced Cobalt Limitation under Methylotrophic Growth Conditions. PLoS ONE, 2009, 4, e7831.	1.1	36
38	Expanding the Isoprenoid Building Block Repertoire with an IPP Methyltransferase from Streptomyces monomycini. ACS Synthetic Biology, 2019, 8, 1303-1313.	1.9	36
39	Monoterpenes as novel substrates for oxidation and halo-hydroxylation with chloroperoxidase from Caldariomyces fumago. Applied Microbiology and Biotechnology, 2007, 73, 1087-1096.	1.7	34
40	Mediated electron transfer with P450cin. Electrochemistry Communications, 2010, 12, 1547-1550.	2.3	34
41	Entrapment of cytochrome P450 BM-3 in polypyrrole for electrochemically-driven biocatalysis. Biotechnology Letters, 2009, 31, 765-770.	1.1	32
42	Replacing the Ethylmalonyl-CoA Pathway with the Glyoxylate Shunt Provides Metabolic Flexibility in the Central Carbon Metabolism of Methylobacterium extorquens AM1. ACS Synthetic Biology, 2018, 7, 86-97.	1.9	31
43	Heterologous expression of 2-methylisoborneol / 2 methylenebornane biosynthesis genes in Escherichia coli yields novel C11-terpenes. PLoS ONE, 2018, 13, e0196082.	1.1	30
44	Enzymatic production and inÂsitu separation of natural Î²-ionone from Î²-carotene. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1771-1778.	1.4	29
45	Investigation of plasmid-induced growth defect in Pseudomonas putida. Journal of Biotechnology, 2016, 231, 167-173.	1.9	28
46	Influence of solubility-enhancing fusion proteins and organic solvents on the in vitro biocatalytic performance of the carotenoid cleavage dioxygenase AtCCD1 in a micellar reaction system. Applied Microbiology and Biotechnology, 2007, 75, 829-836.	1.7	26
47	Improved monoterpene biotransformation with Penicillium sp. by use of a closed gas loop bioreactor. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 827-836.	1.4	25
48	Enantioselective enzymatic synthesis of the Î±-hydroxy ketone (R)-acetoin from meso-2,3-butanediol. Journal of Molecular Catalysis B: Enzymatic, 2014, 103, 61-66.	1.8	25
49	High concentrations of biotechnologically produced astaxanthin by lowering pH in a Phaffia rhodozyma bioprocess. Biotechnology and Bioprocess Engineering, 2017, 22, 319-326.	1.4	25
50	A recombinant Î±-dioxygenase from rice to produce fatty aldehydes using E. coli. Applied Microbiology and Biotechnology, 2011, 90, 989-995.	1.7	24
51	Simulation of the current generation of a microbial fuel cell in a laboratory wastewater treatment plant. Applied Energy, 2017, 195, 942-949.	5.1	24
52	Coupling of electrochemical and optical measurements in a microtiter plate for the fast development of electro enzymatic processes with P450s. Journal of Molecular Catalysis B: Enzymatic, 2013, 92, 71-78.	1.8	23
53	Mediated electron transfer with monooxygenasesâ€"Insight in interactions between reduced mediators and the co-substrate oxygen. Journal of Molecular Catalysis B: Enzymatic, 2014, 108, 51-58.	1.8	23
54	P-LinK: A method for generating multicomponent cytochrome P450 fusions with variable linker length. BioTechniques, 2014, 57, 13-20.	0.8	20

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55	Lightâ€Accelerated Biocatalytic Oxidation Reactions. ChemPlusChem, 2014, 79, 1554-1557.	1.3	19
56	A simplified process design for P450 driven hydroxylation based on surface displayed enzymes. Biotechnology and Bioengineering, 2016, 113, 1225-1233.	1.7	19
57	Directed evolution of P450cin for mediated electron transfer. Protein Engineering, Design and Selection, 2017, 30, 119-127.	1.0	19
58	Regio- and Stereoselective Fungal Oxyfunctionalisation of Limonenes. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2005, 60, 459-466.	0.6	18
59	A computational protocol to predict suitable redox mediators for substitution of NAD(P)H in P450 monooxygenases. Journal of Molecular Catalysis B: Enzymatic, 2013, 88, 47-51.	1.8	16
60	Integrated bioprocess for the stereospecific production of linalool oxides from linalool with Corynespora cassiicola DSM 62475. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1761-1769.	1.4	14
61	Biotechnological Production of Odor-Active Methyl-Branched Aldehydes by a Novel Î±-Dioxygenase from Crocosphaera subtropica. Journal of Agricultural and Food Chemistry, 2020, 68, 10432-10440.	2.4	14
62	Liposome based solubilisation of carotenoid substrates for enzymatic conversion in aqueous media. Journal of Molecular Catalysis B: Enzymatic, 2011, 71, 133-138.	1.8	13
63	A biocatalytic route towards rose oxide using chloroperoxidase. Food Chemistry, 2011, 129, 1025-1029.	4.2	13
64	Efficient hydroxylation of 1,8-cineole with monoterpenoid-resistant recombinant Pseudomonas putida GS1. World Journal of Microbiology and Biotechnology, 2016, 32, 112.	1.7	13
65	Over-expression of chloroperoxidase in Caldariomyces fumago. Biotechnology Letters, 2011, 33, 2225-2231.	1.1	12
66	Bioprocess Engineering for Microbial Synthesis and Conversion of Isoprenoids. Advances in Biochemical Engineering/Biotechnology, 2015, 148, 251-286.	0.6	12
67	Micelle based delivery of carotenoid substrates for enzymatic conversion in aqueous media. Journal of Molecular Catalysis B: Enzymatic, 2012, 77, 67-73.	1.8	10
68	4-[2-O-11Z-Octadecenoyl-Î²-glucopyranosyl]-4,4â€²-diapolycopene-4,4â€²-dioic acid and 4-[2-O-9Z-hexadecenoyl-Î²-glucopyranosyl]-4,4â€²-diapolycopene-4,4â€²-dioic acid: new C30-carotenoids produced by Methylobacterium. Tetrahedron Letters, 2015, 56, 2791-2794.	0.7	10
69	Investigation of fatty aldehyde and alcohol synthesis from fatty acids by Î±Dox- or CAR-expressing Escherichia coli. Journal of Biotechnology, 2019, 305, 11-17.	1.9	10
70	Microbial Electrosynthesis. , 2014, , 1268-1275.		10
71	White Mutants of Chloroperoxidase-Secreting Caldariomyces fumago as Superior Production Strains, Revealing an Interaction between Pigmentation and Enzyme Secretion. Applied and Environmental Microbiology, 2012, 78, 5923-5925.	1.4	8
72	Microtiter plateâ€based cultivation to investigate the growth of filamentous fungi. Engineering in Life Sciences, 2017, 17, 1064-1070.	2.0	8

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73	Investigation of monoterpenoid resistance mechanisms in Pseudomonas putida and their consequences for biotransformations. Applied Microbiology and Biotechnology, 2020, 104, 5519-5533.	1.7	7
74	Effect of Linoleic Acids on the Release of Î²-Carotene from Carotenoid-Producing Saccharomyces cerevisiae into Sunflower Oil. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 233-238.	1.0	6
75	Caldariomyces fumago DSM1256 Contains Two Chloroperoxidase Genes, Both Encoding Secreted and Active Enzymes. Journal of Molecular Microbiology and Biotechnology, 2015, 25, 237-243.	1.0	4
76	Oxidation of fatty aldehydes to fatty acids by Escherichia coli cells expressing the Vibrio harveyi fatty aldehyde dehydrogenase (FALDH). World Journal of Microbiology and Biotechnology, 2013, 29, 569-575.	1.7	3
77	Identification of a Caldariomyces fumago Mutant Secreting an Inactive Form of Chloroperoxidase Lacking the Heme Group and N-Glycans. PLoS ONE, 2013, 8, e67857.	1.1	3
78	Partial secretome analysis of Caldariomyces fumago reveals extracellular production of the CPO co-substrate H2O2 and provides a coproduction concept for CPO and glucose oxidase. World Journal of Microbiology and Biotechnology, 2018, 34, 24.	1.7	3
79	In Situ Product Recovery of Î²-Ionone by Organophilic Pervaporation. ACS Symposium Series, 2013, , 183-190.	0.5	2
80	Folding reporter tags can deliver misleading results upon chaperone coexpression. Journal of Biotechnology, 2009, 144, 268-271.	1.9	1
81	Design of Aqueous Micellar Reaction Systems for Aroma Production with Carotenoid Cleavage Dioxygenase. ACS Symposium Series, 2013, , 169-181.	0.5	1
82	Biotechnological Production of Fatty Aldehydes. , 2014, , 195-199.		1
83	Bioflavour Conference 2018â€"Biotechnology for Flavors, Fragrances, and Functional Ingredients. Journal of Agricultural and Food Chemistry, 2019, 67, 13363-13366.	2.4	1
84	Methanol als alternative Kohlenstoffquelle fÃ¼r mikrobielle Produktionsprozesse. BioSpektrum, 2015, 21, 672-674.	0.0	0