

Jens Schrader

List of Publications by Year in descending order

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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	Biotechnological Production of Odor-Active Methyl-Branched Aldehydes by a Novel $\hat{\pm}$ -Dioxygenase from <i>Crocospheara subtropica</i> . Journal of Agricultural and Food Chemistry, 2020, 68, 10432-10440.	2.4	14
2	Investigation of monoterpenoid resistance mechanisms in <i>Pseudomonas putida</i> and their consequences for biotransformations. Applied Microbiology and Biotechnology, 2020, 104, 5519-5533.	1.7	7
3	Investigation of fatty aldehyde and alcohol synthesis from fatty acids by $\hat{\pm}$ Dox- or CAR-expressing <i>Escherichia coli</i> . Journal of Biotechnology, 2019, 305, 11-17.	1.9	10
4	Bioflavour Conference 2018â€”Biotechnology for Flavors, Fragrances, and Functional Ingredients. Journal of Agricultural and Food Chemistry, 2019, 67, 13363-13366.	2.4	1
5	Expanding the Isoprenoid Building Block Repertoire with an IPP Methyltransferase from <i>Streptomyces monomycini</i> . ACS Synthetic Biology, 2019, 8, 1303-1313.	1.9	36
6	Partial secretome analysis of <i>Caldariomyces fumago</i> reveals extracellular production of the CPO co-substrate H ₂ O ₂ and provides a coproduction concept for CPO and glucose oxidase. World Journal of Microbiology and Biotechnology, 2018, 34, 24.	1.7	3
7	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
8	Replacing the Ethylmalonyl-CoA Pathway with the Glyoxylate Shunt Provides Metabolic Flexibility in the Central Carbon Metabolism of <i>Methylobacterium extorquens</i> AM1. ACS Synthetic Biology, 2018, 7, 86-97.	1.9	31
9	Heterologous expression of 2-methylisoborneol / 2-methylenebornane biosynthesis genes in <i>Escherichia coli</i> yields novel C ₁₁ -terpenes. PLoS ONE, 2018, 13, e0196082.	1.1	30
10	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
11	Directed evolution of P450cin for mediated electron transfer. Protein Engineering, Design and Selection, 2017, 30, 119-127.	1.0	19
12	Microtiter plateâ€”based cultivation to investigate the growth of filamentous fungi. Engineering in Life Sciences, 2017, 17, 1064-1070.	2.0	8
13	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
14	High concentrations of biotechnologically produced astaxanthin by lowering pH in a <i>Phaffia rhodozyma</i> bioprocess. Biotechnology and Bioprocess Engineering, 2017, 22, 319-326.	1.4	25
15	A simplified process design for P450 driven hydroxylation based on surface displayed enzymes. Biotechnology and Bioengineering, 2016, 113, 1225-1233.	1.7	19
16	Efficient hydroxylation of 1,8-cineole with monoterpenoid-resistant recombinant <i>Pseudomonas putida</i> GS1. World Journal of Microbiology and Biotechnology, 2016, 32, 112.	1.7	13
17	Investigation of plasmid-induced growth defect in <i>Pseudomonas putida</i> . Journal of Biotechnology, 2016, 231, 167-173.	1.9	28
18	Biotechnological production of limonene in microorganisms. Applied Microbiology and Biotechnology, 2016, 100, 2927-2938.	1.7	136

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19	Methanol als alternative Kohlenstoffquelle für mikrobielle Produktionsprozesse. BioSpektrum, 2015, 21, 672-674.	0.0	0
20	Bioprocess Engineering for Microbial Synthesis and Conversion of Isoprenoids. Advances in Biochemical Engineering/Biotechnology, 2015, 148, 251-286.	0.6	12
21	High-level production of ethylmalonyl-CoA pathway-derived dicarboxylic acids by <i>Methylobacterium extorquens</i> under cobalt-deficient conditions and by polyhydroxybutyrate negative strains. Applied Microbiology and Biotechnology, 2015, 99, 3407-3419.	1.7	44
22	<i>Caldariomyces fumago</i> DSM1256 Contains Two Chloroperoxidase Genes, Both Encoding Secreted and Active Enzymes. Journal of Molecular Microbiology and Biotechnology, 2015, 25, 237-243.	1.0	4
23	4-[2-O-11Z-Octadecenoyl- β -glucopyranosyl]-4,4-diapolycopene-4,4-dioic acid and 4-[2-O-9Z-hexadecenoyl- β -glucopyranosyl]-4,4-diapolycopene-4,4-dioic acid: new C30-carotenoids produced by <i>Methylobacterium</i> . Tetrahedron Letters, 2015, 56, 2791-2794.	0.7	10
24	Engineering <i>Methylobacterium extorquens</i> for de novo synthesis of the sesquiterpenoid \pm -humulene from methanol. Metabolic Engineering, 2015, 32, 82-94.	3.6	91
25	<i>Methylobacterium extorquens</i> : methylotrophy and biotechnological applications. Applied Microbiology and Biotechnology, 2015, 99, 517-534.	1.7	116
26	Cell factory applications of the yeast <i>Kluyveromyces marxianus</i> for the biotechnological production of natural flavour and fragrance molecules. Yeast, 2015, 32, 3-16.	0.8	122
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	De novo production of the monoterpenoid geranic acid by metabolically engineered <i>Pseudomonas putida</i> . Microbial Cell Factories, 2014, 13, 170.	1.9	73
29	Improving 2-phenylethanol and 6-pentyl- \pm -pyrone production with fungi by microparticle-enhanced cultivation (MPEC). Yeast, 2014, 32, n/a-n/a.	0.8	46
30	Light-Accelerated Biocatalytic Oxidation Reactions. ChemPlusChem, 2014, 79, 1554-1557.	1.3	19
31	Biotechnological Production of Fatty Aldehydes. , 2014, , 195-199.		1
32	Thioesterases for ethylmalonyl-CoA pathway derived dicarboxylic acid production in <i>Methylobacterium extorquens</i> AM1. Applied Microbiology and Biotechnology, 2014, 98, 4533-4544.	1.7	55
33	Reactor concepts for bioelectrochemical syntheses and energy conversion. Trends in Biotechnology, 2014, 32, 645-655.	4.9	134
34	Electroactive bacteria's molecular mechanisms and genetic tools. Applied Microbiology and Biotechnology, 2014, 98, 8481-8495.	1.7	194
35	Mediated electron transfer with monooxygenases' Insight in interactions between reduced mediators and the co-substrate oxygen. Journal of Molecular Catalysis B: Enzymatic, 2014, 108, 51-58.	1.8	23
36	Enzymatic halogenation of the phenolic monoterpenes thymol and carvacrol with chloroperoxidase. Green Chemistry, 2014, 16, 1104-1108.	4.6	69

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37	Electroenzymatic process to overcome enzyme instabilities. <i>Catalysis Communications</i> , 2014, 51, 82-85.	1.6	38
38	Enantioselective enzymatic synthesis of the $\hat{1}\pm$ -hydroxy ketone (R)-acetoin from meso-2,3-butanediol. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 103, 61-66.	1.8	25
39	Electrochemical regeneration of oxidised nicotinamide cofactors in a scalable reactor. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 103, 94-99.	1.8	38
40	P-Link: A method for generating multicomponent cytochrome P450 fusions with variable linker length. <i>BioTechniques</i> , 2014, 57, 13-20.	0.8	20
41	Microbial Electrosynthesis. , 2014, , 1268-1275.		10
42	Multiple improvement of astaxanthin biosynthesis in <i>Xanthophyllomyces dendrorhous</i> by a combination of conventional mutagenesis and metabolic pathway engineering. <i>Biotechnology Letters</i> , 2013, 35, 565-569.	1.1	58
43	In Situ Product Recovery of $\hat{1}^2$ -Ionone by Organophilic Pervaporation. <i>ACS Symposium Series</i> , 2013, , 183-190.	0.5	2
44	Design of Aqueous Micellar Reaction Systems for Aroma Production with Carotenoid Cleavage Dioxygenase. <i>ACS Symposium Series</i> , 2013, , 169-181.	0.5	1
45	Oxidation of fatty aldehydes to fatty acids by <i>Escherichia coli</i> cells expressing the <i>Vibrio harveyi</i> fatty aldehyde dehydrogenase (FALDH). <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 569-575.	1.7	3
46	Coupling of electrochemical and optical measurements in a microtiter plate for the fast development of electro enzymatic processes with P450s. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 92, 71-78.	1.8	23
47	A computational protocol to predict suitable redox mediators for substitution of NAD(P)H in P450 monooxygenases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 88, 47-51.	1.8	16
48	Effect of Linoleic Acids on the Release of $\hat{1}^2$ -Carotene from Carotenoid-Producing <i>Saccharomyces cerevisiae</i> into Sunflower Oil. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2013, 23, 233-238.	1.0	6
49	Identification of a <i>Caldariomyces fumago</i> Mutant Secreting an Inactive Form of Chloroperoxidase Lacking the Heme Group and N-Glycans. <i>PLoS ONE</i> , 2013, 8, e67857.	1.1	3
50	White Mutants of Chloroperoxidase-Secreting <i>Caldariomyces fumago</i> as Superior Production Strains, Revealing an Interaction between Pigmentation and Enzyme Secretion. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5923-5925.	1.4	8
51	Integrated bioprocess for the stereospecific production of linalool oxides from linalool with <i>Corynespora cassiicola</i> DSM 62475. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1761-1769.	1.4	14
52	Enzymatic production and inÂsitu separation of natural $\hat{1}^2$ -ionone from $\hat{1}^2$ -carotene. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1771-1778.	1.4	29
53	Microparticle based morphology engineering of filamentous microorganisms for industrial bio-production. <i>Biotechnology Letters</i> , 2012, 34, 1975-1982.	1.1	38
54	Micelle based delivery of carotenoid substrates for enzymatic conversion in aqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 77, 67-73.	1.8	10

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55	Synthesis of green note aroma compounds by biotransformation of fatty acids using yeast cells coexpressing lipoxygenase and hydroperoxide lyase. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 159-168.	1.7	53
56	Immobilized redox mediators for electrochemical NAD(P)+ regeneration. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2251-2264.	1.7	75
57	Gas diffusion electrode as novel reaction system for an electro-enzymatic process with chloroperoxidase. <i>Green Chemistry</i> , 2011, 13, 2686.	4.6	91
58	Liposome based solubilisation of carotenoid substrates for enzymatic conversion in aqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 71, 133-138.	1.8	13
59	Biooxidation of monoterpenes with bacterial monooxygenases. <i>Process Biochemistry</i> , 2011, 46, 1885-1899.	1.8	40
60	Immobilization of histidine-tagged proteins on electrodes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 539-551.	2.5	74
61	Over-expression of chloroperoxidase in <i>Caldariomyces fumago</i> . <i>Biotechnology Letters</i> , 2011, 33, 2225-2231.	1.1	12
62	Biotechnological production of astaxanthin with <i>Phaffia rhodozyma</i> / <i>Xanthophyllomyces dendrorhous</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 555-571.	1.7	225
63	A recombinant $\hat{\pm}$ -dioxygenase from rice to produce fatty aldehydes using <i>E. coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 989-995.	1.7	24
64	A biocatalytic route towards rose oxide using chloroperoxidase. <i>Food Chemistry</i> , 2011, 129, 1025-1029.	4.2	13
65	Mediated electron transfer with P450cin. <i>Electrochemistry Communications</i> , 2010, 12, 1547-1550.	2.3	34
66	Metabolite Profiling Uncovers Plasmid-Induced Cobalt Limitation under Methylo-trophic Growth Conditions. <i>PLoS ONE</i> , 2009, 4, e7831.	1.1	36
67	Methanol-based industrial biotechnology: current status and future perspectives of methylo-trophic bacteria. <i>Trends in Biotechnology</i> , 2009, 27, 107-115.	4.9	245
68	Improved monoterpene biotransformation with <i>Penicillium</i> sp. by use of a closed gas loop bioreactor. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 827-836.	1.4	25
69	Entrapment of cytochrome P450 BM-3 in polypyrrole for electrochemically-driven biocatalysis. <i>Biotechnology Letters</i> , 2009, 31, 765-770.	1.1	32
70	P450BM-3-catalyzed whole-cell biotransformation of $\hat{\pm}$ -pinene with recombinant <i>Escherichia coli</i> in an aqueous "organic two-phase system. <i>Applied Microbiology and Biotechnology</i> , 2009, 83, 849-857.	1.7	62
71	Folding reporter tags can deliver misleading results upon chaperone coexpression. <i>Journal of Biotechnology</i> , 2009, 144, 268-271.	1.9	1
72	Substrate promiscuity of RdCCD1, a carotenoid cleavage oxygenase from <i>Rosa damascena</i> . <i>Phytochemistry</i> , 2009, 70, 457-464.	1.4	121

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73	Integrated bioprocess for the oxidation of limonene to perillic acid with <i>Pseudomonas putida</i> DSM 12264. <i>Process Biochemistry</i> , 2009, 44, 764-771.	1.8	63
74	Improvement of P450BM-3 whole-cell biocatalysis by integrating heterologous cofactor regeneration combining glucose facilitator and dehydrogenase in <i>E. coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 55-65.	1.7	61
75	Production of the aroma chemicals 3-(methylthio)-1-propanol and 3-(methylthio)-propylacetate with yeasts. <i>Applied Microbiology and Biotechnology</i> , 2008, 80, 579-587.	1.7	42
76	Microparticle-enhanced cultivation of filamentous microorganisms: Increased chloroperoxidase formation by <i>Caldariomyces fumago</i> as an example. <i>Biotechnology and Bioengineering</i> , 2008, 99, 491-498.	1.7	117
77	Fungal Biotransformation of (±)-Linalool. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 3287-3296.	2.4	44
78	Microbial Flavour Production. , 2007, , 507-574.		42
79	Monoterpenes as novel substrates for oxidation and halo-hydroxylation with chloroperoxidase from <i>Caldariomyces fumago</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1087-1096.	1.7	34
80	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. <i>Applied Microbiology and Biotechnology</i> , 2007, 75, 829-836.	1.7	26
81	An aqueous-organic two-phase bioprocess for efficient production of the natural aroma chemicals 2-phenylethanol and 2-phenylethylacetate with yeast. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 440-443.	1.7	112
82	Regio- and Stereoselective Fungal Oxyfunctionalisation of Limonenes. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005, 60, 459-466.	0.6	18
83	Production of 2-phenylethanol and 2-phenylethylacetate from L-phenylalanine by coupling whole-cell biocatalysis with organophilic pervaporation. <i>Biotechnology and Bioengineering</i> , 2005, 92, 624-634.	1.7	77
84	Integrated bioprocess for enhanced production of natural flavors and fragrances by <i>Ceratocystis moniliformis</i> . <i>New Biotechnology</i> , 2001, 17, 137-142.	2.7	61