Anton Glieder

List of Publications by Year
in descending order

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138 papers	7,563 citations	43973 48 h-index	56606 83 g-index
154 all docs	154 docs citations	154 times ranked	6053 citing authors

#	Article	IF	Citations
1	Natural Product Diversification by Oneâ€Step Biocatalysis using Human P450 3A4. ChemCatChem, 2022, 14, .	1.8	7
2	Preparative Production of Functionalized (N- and O-Heterocyclic) Polycyclic Aromatic Hydrocarbons by Human Cytochrome P450 3A4 in a Bioreactor. Biomolecules, 2022, 12, 153.	1.8	1
3	Regiospecific 7-hydroxylation of ten-carbon monoterpenes by detoxifying CYP5035S7 monooxygenase of the white-rot fungus Polyporus arcularius. Biochemical and Biophysical Research Communications, 2022, 595, 35-40.	1.0	1
4	Bioengineering a glucose oxidase nanosensor for near-infrared continuous glucose monitoring. Nanoscale Advances, 2022, 4, 2420-2427.	2.2	8
5	Racemization-free and scalable amidation of <scp>l</scp>-proline in organic media using ammonia and a biocatalyst only. Green Chemistry, 2022, 24, 5171-5180.	4.6	2
6	Bioprocess performance analysis of novel methanol-independent promoters for recombinant protein production with Pichia pastoris. Microbial Cell Factories, 2021, 20, 74.	1.9	16
7	Scalable production and application of Pichia pastoris whole cell catalysts expressing human cytochrome P450 2C9. Microbial Cell Factories, 2021, 20, 90.	1.9	8
8	Novel molecular biological tools for the efficient expression of fungal lytic polysaccharide monooxygenases in Pichia pastoris. Biotechnology for Biofuels, 2021, 14, 122.	6.2	10
9	Evolution and enrichment of CYP5035 in Polyporales: functionality of an understudied P450 family. Applied Microbiology and Biotechnology, 2021, 105, 6779-6792.	1.7	11
10	Structural and Biochemical Studies Enlighten the Unspecific Peroxygenase from Hypoxylon sp. EC38 as an Efficient Oxidative Biocatalyst. ACS Catalysis, 2021, 11, 11511-11525.	5.5	39
11	Late-Stage Functionalisation of Polycyclic (N-Hetero-) Aromatic Hydrocarbons by Detoxifying CYP5035S7 Monooxygenase of the White-Rot Fungus Polyporus arcularius. Biomolecules, 2021, 11, 1708.	1.8	3
12	Evolved Peroxygenaseâ€“Aryl Alcohol Oxidase Fusions for Self-Sufficient Oxyfunctionalization Reactions. ACS Catalysis, 2020, 10, 13524-13534.	5.5	32
13	Preparativeâ€Scale Production of Testosterone Metabolites by Human Liver Cytochrome P450 Enzyme 3A4. Advanced Synthesis and Catalysis, 2020, 362, 2725-2738.	2.1	17
14	Orthologous promoters from related methylotrophic yeasts surpass expression of endogenous promoters of Pichia pastoris. AMB Express, 2020, 10, 38.	1.4	23
15	Current advances in engineering tools for Pichia pastoris. Current Opinion in Biotechnology, 2019, 59, 175-181.	3.3	66
16	Methanol Independent Expression by Pichia Pastoris Employing De-repression Technologies. Journal of Visualized Experiments, 2019, , .	0.2	8
17	Single-Cell Approach to Monitor the Unfolded Protein Response During Biotechnological Processes With Pichia pastoris. Frontiers in Microbiology, 2019, 10, 335.	1.5	11
18	Cytochrome P450 mediated hydroxylation of ibuprofen using Pichia pastoris as biocatalyst. Biocatalysis and Agricultural Biotechnology, 2019, 17, 525-528.	1.5	9

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19	Parallelized biocatalytic scanning probe lithography for the additive fabrication of conjugated polymer structures. Nanoscale, 2018, 10, 7185-7193.	2.8	11
20	Methanol independent induction in Pichia pastoris by simple derepressed overexpression of single transcription factors. Biotechnology and Bioengineering, 2018, 115, 1037-1050.	1.7	64
21	Implementing CRISPR-Cas technologies in conventional and non-conventional yeasts: Current state and future prospects. Biotechnology Advances, 2018, 36, 641-665.	6.0	120
22	Humane Enzyme fÃ¼r die organische Synthese. Angewandte Chemie, 2018, 130, 13592-13610.	1.6	6
23	Human Enzymes for Organic Synthesis. Angewandte Chemie - International Edition, 2018, 57, 13406-13423.	7.2	40
24	Expanding the CRISPR/Cas9 toolkit for Pichia pastoris with efficient donor integration and alternative resistance markers. Journal of Cellular Biochemistry, 2018, 119, 3183-3198.	1.2	96
25	Cloning and upscale production of monoamine oxidase N (MAO-N D5) by Pichia pastoris. Biotechnology Letters, 2018, 40, 127-133.	1.1	5
26	Construction of a cellulose-metabolizing Komagataella phaffii (Pichia pastoris) by co-expressing glucanases and Î²-glucosidase. Applied Microbiology and Biotechnology, 2018, 102, 1297-1306.	1.7	12
27	Pichia pastoris Alcohol Oxidase 1 (AOX1) Core Promoter Engineering by High Resolution Systematic Mutagenesis. Biotechnology Journal, 2018, 13, e1700340.	1.8	39
28	Production of Hydroxynitrile Lyase from Davallia tyermannii (DtHNL) in Komagataella phaffii and Its Immobilization as a CLEA to Generate a Robust Biocatalyst. ChemBioChem, 2018, 19, 312-316.	1.3	12
29	The Extreme Structural Plasticity in the CYP153 Subfamily of P450s Directs Development of Designer Hydroxylases. Biochemistry, 2018, 57, 6701-6714.	1.2	14
30	Engineered bidirectional promoters enable rapid multi-gene co-expression optimization. Nature Communications, 2018, 9, 3589.	5.8	73
31	Aliphatic hydroxylation and epoxidation of capsaicin by cytochrome P450 CYP505X. Tetrahedron, 2018, 74, 6199-6204.	1.0	9
32	Enzyme discovery beyond homology: a unique hydroxynitrile lyase in the Bet v1 superfamily. Scientific Reports, 2017, 7, 46738.	1.6	21
33	Synthetic Core Promoters as Universal Parts for Fine-Tuning Expression in Different Yeast Species. ACS Synthetic Biology, 2017, 6, 471-484.	1.9	80
34	Refined Pichia pastoris reference genome sequence. Journal of Biotechnology, 2016, 235, 121-131.	1.9	84
35	Biotechnological advances towards an enhanced peroxidase production in Pichia pastoris. Journal of Biotechnology, 2016, 233, 181-189.	1.9	23
36	Pichia pastoris mutants as host strains for efficient secretion of recombinant branched chain aminotransferase (BCAT). Journal of Biotechnology, 2016, 235, 84-91.	1.9	8

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37	Synergism of proteomics and mRNA sequencing for enzyme discovery. Journal of Biotechnology, 2016, 235, 132-138.	1.9	13
38	Combinatorial optimization of CRISPR/Cas9 expression enables precision genome engineering in the methylotrophic yeast Pichia pastoris. Journal of Biotechnology, 2016, 235, 139-149.	1.9	198
39	Recombinant production of a peroxidase-protein G fusion protein in Pichia pastoris. Journal of Biotechnology, 2016, 219, 24-27.	1.9	12
40	A Toolbox of Diverse Promoters Related to Methanol Utilization: Functionally Verified Parts for Heterologous Pathway Expression in Pichia pastoris. ACS Synthetic Biology, 2016, 5, 172-186.	1.9	127
41	Novel DNA and RNA Elements. , 2016, , 65-99.		1
42	Chapter 14. Synthetic Biology for Organic Syntheses. RSC Green Chemistry, 2016, , 165-179.	0.0	0
43	Restriction site free cloning (RSFC) plasmid family for seamless, sequence independent cloning in Pichia pastoris. Microbial Cell Factories, 2015, 14, 103.	1.9	25
44	Bioprospecting for Hydroxynitrile Lyases by Blue Native PAGE Coupled HCN Detection. Current Biotechnology, 2015, 4, 111-117.	0.2	4
45	Engineering Pichia pastoris for improved NADH regeneration: A novel chassis strain for whole-cell catalysis. Beilstein Journal of Organic Chemistry, 2015, 11, 1741-1748.	1.3	18
46	An updated view on horseradish peroxidases: recombinant production and biotechnological applications. Applied Microbiology and Biotechnology, 2015, 99, 1611-1625.	1.7	163
47	Optimizing cofactor availability for the production of recombinant heme peroxidase in Pichia pastoris. Microbial Cell Factories, 2015, 14, 4.	1.9	33
48	A toolbox of endogenous and heterologous nuclear localization sequences for the methylotrophic yeastPichia pastoris. FEMS Yeast Research, 2015, 15, fov082.	1.1	21
49	Recombinant Expression of Trichoderma reesei Cel61A in Pichia pastoris: Optimizing Yield and N-terminal Processing. Molecular Biotechnology, 2015, 57, 1010-1017.	1.3	57
50	Compact multi-enzyme pathways in P. pastoris. Chemical Communications, 2015, 51, 1643-1646.	2.2	64
51	Combinatorial pathway assembly in yeast. AIMS Bioengineering, 2015, 2, 423-436.	0.6	3
52	Purification and basic biochemical characterization of 19 recombinant plant peroxidase isoenzymes produced in Pichia pastoris. Protein Expression and Purification, 2014, 95, 104-112.	0.6	40
53	Thermostability improvement of endoglucanase Cel7B from Hypocrea pseudokoningii. Journal of Molecular Catalysis B: Enzymatic, 2014, 103, 16-23.	1.8	10
54	Carbon source dependent promoters in yeasts. Microbial Cell Factories, 2014, 13, 5.	1.9	147

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55	Towards improved membrane protein production in Pichia pastoris: General and specific transcriptional response to membrane protein overexpression. New Biotechnology, 2014, 31, 538-552.	2.4	37
56	Microbials for the production of monoclonal antibodies and antibody fragments. Trends in Biotechnology, 2014, 32, 54-60.	4.9	192
57	Enantioselective trans-Dihydroxylation of Aryl Olefins by Cascade Biocatalysis with Recombinant Escherichia coli Coexpressing Monooxygenase and Epoxide Hydrolase. ACS Catalysis, 2014, 4, 409-420.	5.5	93
58	Synergistic modular promoter and gene optimization to push cellulase secretion by Pichia pastoris beyond existing benchmarks. Journal of Biotechnology, 2014, 191, 187-195.	1.9	41
59	Synthetic Core Promoters for Pichia pastoris. ACS Synthetic Biology, 2014, 3, 188-191.	1.9	84
60	Extracellular transaminases for biocatalysis. New Biotechnology, 2014, 31, S198.	2.4	0
61	Human flavin monooxygenase 2: Heterologous expression in E. coli and API modification. New Biotechnology, 2014, 31, S82.	2.4	0
62	COFACTOR SPECIFICITY ENGINEERING OF STREPTOCOCCUS MUTANS NADH OXIDASE 2 FOR NAD(P) + REGENERATION IN BIOCATALYTIC OXIDATIONS. Computational and Structural Biotechnology Journal, 2014, 9, e201402005.	1.9	46
63	Peroxidase gene discovery from the horseradish transcriptome. BMC Genomics, 2014, 15, 227.	1.2	22
64	Production of Recombinant Human Aldehyde Oxidase in Escherichia coli and Optimization of Its Application for the Preparative Synthesis of Oxidized Drug Metabolites. ChemCatChem, 2014, 6, 1028-1042.	1.8	10
65	Regulation of Pichia pastoris promoters and its consequences for protein production. New Biotechnology, 2013, 30, 385-404.	2.4	223
66	Screening for cytochrome P450 expression in Pichia pastoris whole cells by P450â€carbon monoxide complex determination. Biotechnology Journal, 2013, 8, 146-152.	1.8	12
67	Double site saturation mutagenesis of the human cytochrome P450 2D6 results in regioselective steroid hydroxylation. FEBS Journal, 2013, 280, 3094-3108.	2.2	20
68	New opportunities by synthetic biology for biopharmaceutical production in Pichia pastoris. Current Opinion in Biotechnology, 2013, 24, 1094-1101.	3.3	159
69	Knockout of an endogenous mannosyltransferase increases the homogeneity of glycoproteins produced in Pichia pastoris. Scientific Reports, 2013, 3, 3279.	1.6	62
70	Mini-Review: Recent Developments in Hydroxynitrile Lyases for Industrial Biotechnology. Recent Patents on Biotechnology, 2013, 7, 197-206.	0.4	29
71	MuteinDB: the mutein database linking substrates, products and enzymatic reactions directly with genetic variants of enzymes. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas028-bas028.	1.4	8
72	Hydroxylation of polypropylene using the monooxygenase mutant 139-3 fromBacillus megaterium BM3. Biocatalysis and Biotransformation, 2012, 30, 57-62.	1.1	1

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73	Deletion of the Pichia pastoris KU70 Homologue Facilitates Platform Strain Generation for Gene Expression and Synthetic Biology. PLoS ONE, 2012, 7, e39720.	1.1	198
74	Simple and efficient expression of Agaricus meleagris pyranose dehydrogenase in Pichia pastoris. Applied Microbiology and Biotechnology, 2012, 94, 695-704.	1.7	29
75	Production of human cytochrome P450 2D6 drug metabolites with recombinant microbes â€“ a comparative study. Biotechnology Journal, 2012, 7, 1346-1358.	1.8	41
76	Expression of recombinant human flavin monooxygenase and moclobemide-N-oxide synthesis on multi-mg scale. Chemical Communications, 2012, 48, 6001.	2.2	37
77	A novel multi-enzymatic high throughput assay for transaminase activity. Tetrahedron, 2012, 68, 7586-7590.	1.0	17
78	Steroid biotransformations in biphasic systems with Yarrowia lipolytica expressing human liver cytochrome P450 genes. Microbial Cell Factories, 2012, 11, 106.	1.9	44
79	Expression of lignocellulolytic enzymes in Pichia pastoris. Microbial Cell Factories, 2012, 11, 61.	1.9	71
80	Nitrile Reductase from Geobacillus kaustophilus: A Potential Catalyst for a New Nitrile Biotransformation Reaction. Advanced Synthesis and Catalysis, 2012, 354, 2191-2198.	2.1	31
81	Recombinant protein expression in Pichia pastoris strains with an engineered methanol utilization pathway. Microbial Cell Factories, 2012, 11, 22.	1.9	151
82	Sensitive highâ€throughput screening for the detection of reducing sugars. Biotechnology Journal, 2012, 7, 155-162.	1.8	19
83	High-level expression of Rhodotorula gracilis d-amino acid oxidase in Pichia pastoris. Biotechnology Letters, 2011, 33, 557-563.	1.1	12
84	Old Yellow Enzymeâ€Catalyzed Dehydrogenation of Saturated Ketones. Advanced Synthesis and Catalysis, 2011, 353, 268-274.	2.1	54
85	High-quality genome sequence of Pichia pastoris CBS7435. Journal of Biotechnology, 2011, 154, 312-320.	1.9	146
86	Improved Fitness of Arabidopsis thaliana Nitrilaseâ€…2. ChemCatChem, 2010, 2, 263-267.	1.8	9
87	Realâ€time PCRâ€based determination of gene copy numbers in Pichia pastoris. Biotechnology Journal, 2010, 5, 413-420.	1.8	115
88	Variable production windows for porcine trypsinogen employing synthetic inducible promoter variants in Pichia pastoris. Systems and Synthetic Biology, 2010, 4, 181-191.	1.0	35
89	Perspectives on Synthetic Promoters for Biocatalysis and Biotransformation. ChemBioChem, 2010, 11, 761-765.	1.3	15
90	Monooxygenases as biocatalysts: Classification, mechanistic aspects and biotechnological applications. Journal of Biotechnology, 2010, 146, 9-24.	1.9	227

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91	Engineering the Pichia pastoris methanol oxidation pathway for improved NADH regeneration during whole-cell biotransformation. Metabolic Engineering, 2010, 12, 8-17.	3.6	59
92	Directed evolution of Alcaligenes faecalis nitrilase. Enzyme and Microbial Technology, 2010, 47, 140-146.	1.6	38
93	Combined Use of Fluorescent Dyes and Flow Cytometry To Quantify the Physiological State ofPichia pastorisduring the Production of Heterologous Proteins in High-Cell-Density Fed-Batch Cultures. Applied and Environmental Microbiology, 2010, 76, 4486-4496.	1.4	30
94	Stepwise engineering of a Pichia pastoris D-amino acid oxidase whole cell catalyst. Microbial Cell Factories, 2010, 9, 24.	1.9	47
95	A Diversified Library of Bacterial and Fungal Bifunctional Cytochrome P450 Enzymes for Drug Metabolite Synthesis. Advanced Synthesis and Catalysis, 2009, 351, 2140-2146.	2.1	46
96	Enrichment of new alkane oxidizing bacterial strains for human drug metabolite production. Journal of Molecular Catalysis B: Enzymatic, 2009, 57, 72-77.	1.8	2
97	Investigation of lipase-catalyzed Michael-type carbonâ€“carbon bond formations. Tetrahedron, 2009, 65, 5663-5668.	1.0	58
98	Substrate Binding in the FAD-Dependent Hydroxynitrile Lyase from Almond Provides Insight into the Mechanism of Cyanohydrin Formation and Explains the Absence of Dehydrogenation Activity,. Biochemistry, 2009, 48, 3370-3377.	1.2	34
99	Tuning microbial hosts for membrane protein production. Microbial Cell Factories, 2009, 8, 69.	1.9	64
100	Laboratory Evolved Biocatalysts for Stereoselective Syntheses of Substituted Benzaldehyde Cyanohydrins. ChemBioChem, 2008, 9, 58-61.	1.3	56
101	An Exceptionally DMSOâ€Tolerant Alcohol Dehydrogenase for the Stereoselective Reduction of Ketones. ChemSusChem, 2008, 1, 431-436.	3.6	51
102	Efficient Biocatalytic Synthesis of (R)â€Pantolactone. Advanced Synthesis and Catalysis, 2008, 350, 1943-1948.	2.1	34
103	Asymmetric anti-Prelog reduction of ketones catalysed by Paracoccus pantotrophus and Comamonas sp. cells via hydrogen transfer. Tetrahedron: Asymmetry, 2008, 19, 1954-1958.	1.8	21
104	Screening hydroxynitrile lyases for (R)-pantolactone synthesis. Journal of Molecular Catalysis B: Enzymatic, 2008, 52-53, 183-188.	1.8	20
105	Yeast cell factories for fine chemical and API production. Microbial Cell Factories, 2008, 7, 25.	1.9	98
106	Random tag insertions by Transposon Integration mediated Mutagenesis (TIM). Journal of Microbiological Methods, 2008, 75, 251-257.	0.7	11
107	Promoter library designed for fine-tuned gene expression in Pichia pastoris. Nucleic Acids Research, 2008, 36, e76-e76.	6.5	245
108	One-Way Biohydrogen Transfer for Oxidation of sec-Alcohols. Organic Letters, 2008, 10, 2155-2158.	2.4	121

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109	Stereoselective Bioreduction of Bulky-Bulky Ketones by a Novel ADH from Ralstonia sp.. Journal of Organic Chemistry, 2008, 73, 6003-6005.	1.7	114
110	Pichia pastoris â€˜just in timeâ€™ alternative respiration. Microbiology (United Kingdom), 2007, 153, 1250-1260.	0.7	44
111	Random strand transfer recombination (RSTR) for homology-independent nucleic acid recombination. Journal of Biotechnology, 2007, 129, 39-49.	1.9	5
112	Engineering primary metabolic pathways of industrial micro-organisms. Journal of Biotechnology, 2007, 129, 6-29.	1.9	95
113	Serine scanningâ€”A tool to prove the consequences of N-glycosylation of proteins. Journal of Biotechnology, 2007, 129, 50-61.	1.9	26
114	Counteracting expression deficiencies by anticipating posttranslational modification of PaHNL5-L1Q-A111G by genetic engineering. Journal of Biotechnology, 2007, 129, 30-38.	1.9	16
115	Enzyme stabilizer DTT catalyzes nitrilase analogue hydrolysis of nitriles. Chemical Communications, 2006, , 1298.	2.2	18
116	Regulation of methanol utilisation pathway genes in yeasts. Microbial Cell Factories, 2006, 5, 39.	1.9	192
117	Biochemical Evidence That Berberine Bridge Enzyme Belongs to a Novel Family of Flavoproteins Containing a Bi-covalently Attached FAD Cofactor. Journal of Biological Chemistry, 2006, 281, 21276-21285.	1.6	107
118	Targeting Posttranslational Modifications â€“ Perspectives for Biocatalyst Engineering. Chimia, 2005, 59, 727-731.	0.3	0
119	Carving the Active Site of AlmondR-HNL for Increased Enantioselectivity. Angewandte Chemie - International Edition, 2005, 44, 4700-4704.	7.2	47
120	Stereoselective Hydroxylation of an Achiral Cyclopentanecarboxylic Acid Derivative Using Engineered P450s BM-3.. ChemInform, 2005, 36, no.	0.1	0
121	Stereoselective hydroxylation of an achiral cyclopentanecarboxylic acid derivative using engineered P450s BM-3. Chemical Communications, 2005, , 2597.	2.2	56
122	Recombinant Protein Production in Yeast. , 2005, , 1620-1625.		0
123	Biocatalytic conversion of unnatural substrates by recombinant almond R-HNL isoenzyme 5. Journal of Molecular Catalysis B: Enzymatic, 2004, 29, 211-218.	1.8	30
124	Reliable high-throughput screening with by limiting yeast cell death phenomena. FEMS Yeast Research, 2004, 5, 179-189.	1.1	143
125	Esterase EstE from Xanthomonas vesicatoria (Xv_EstE) is an outer membrane protein capable of hydrolyzing long-chain polar esters. Applied Microbiology and Biotechnology, 2003, 61, 479-487.	1.7	23
126	Comprehensive Step-by-Step Engineering of an (R)-Hydroxynitrile Lyase for Large-Scale Asymmetric Synthesis. Angewandte Chemie - International Edition, 2003, 42, 4815-4818.	7.2	109

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127	Regio- and Enantioselective Alkane Hydroxylation with Engineered Cytochromes P450 BM-3. Journal of the American Chemical Society, 2003, 125, 13442-13450.	6.6	316
128	Acetylacetone-cleaving enzyme Dke1: a novel C-C-bond-cleaving enzyme from Acinetobacter johnsonii. Biochemical Journal, 2003, 369, 573-581.	1.7	95
129	High-Throughput Screens Based on NAD(P)H Depletion. , 2003, 230, 157-170.		8
130	Cloning, expression and characterization of a new 2-Cl-propionic acid ester hydrolase from B. subtilis. Journal of Molecular Catalysis B: Enzymatic, 2002, 19-20, 237-245.	1.8	6
131	Laboratory evolution of a soluble, self-sufficient, highly active alkane hydroxylase. Nature Biotechnology, 2002, 20, 1135-1139.	9.4	379
132	Directed Evolution of a Cytochrome P450 Monooxygenase for Alkane Oxidation. Advanced Synthesis and Catalysis, 2001, 343, 601-606.	2.1	148
133	The Hydroxynitrile Lyase from Almond. Structure, 2001, 9, 803-815.	1.6	86
134	Directed Evolution of a Cytochrome P450 Monooxygenase for Alkane Oxidation. , 2001, 343, 601.		3
135	Cloning and characterization of EstC from Burkholderia gladioli , a novel-type esterase related to plant enzymes. Applied Microbiology and Biotechnology, 2000, 54, 778-785.	1.7	26
136	Structure of the xylanase from Penicillium simplicissimum. Protein Science, 1998, 7, 2081-2088.	3.1	86
137	Cloning and characterization of the gene for the thermostable xylanase XynA from Thermomyces lanuginosus. Journal of Biotechnology, 1996, 49, 211-218.	1.9	75
138	Regioselective Hydroxylation of Stilbenes by Whiteâ€Rot Fungal P450s Enables Preparativeâ€Scale Synthesis of Stilbenoids. European Journal of Organic Chemistry, 0, , .	1.2	1