Uwe T Bornscheuer

List of Publications by Year in Descending Order

578 papers	22,508 citations	73 h-index	127 g-index
656 ext. papers	25,373 ext. citations	6.4 avg, IF	7.52 L-index

#	Paper	IF	Citations
578	Algorithm-aided engineering of aliphatic halogenase WelO5* for the asymmetric late-stage functionalization of soraphens.. *Nature Communications*, **2022**, 13, 371	17.4	8
577	Engineering and evaluation of thermostable PETase variants for PET degradation.. *Engineering in Life Sciences*, **2022**, 22, 192-203	3.4	9
576	Mechanism-Based Design of Efficient PET Hydrolases.. *ACS Catalysis*, **2022**, 12, 3382-3396	13.1	11
575	Biosensor and chemo-enzymatic one-pot cascade applications to detect and transform PET-derived terephthalic acid in living cells. *IScience*, **2022**, 104326	6.1	1
574	Enzymatic Photometric Assays for the Selective Detection of Halides. *Methods in Molecular Biology*, **2022**, 361-375	1.4	
573	A chemoenzymatic cascade with the potential to feed the world and allow humans to live in space. *Engineering Microbiology*, **2021**, 2, 100006		0
572	Pinene-Based Oxidative Synthetic Toolbox for Scalable Polyester Synthesis. *Jacs Au*, **2021**, 1, 1949-1960		4
571	Biotechnological Production and Sensory Evaluation of □-Unsaturated Aldehydes. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 345-353	5.7	3
570	Droplet microfluidics: From simple activity screening to sophisticated kinetics. *CheM*, **2021**, 7, 835-838	16.2	1
569	From Natural Methylation to Versatile Alkylations Using Halide Methyltransferases. *ChemBioChem*, **2021**, 22, 2584-2590	3.8	6
568	Fettsäuren und Fettsäurederivate als nachwachsende Plattformmoleküle für die chemische Industrie. *Angewandte Chemie*, **2021**, 133, 20304-20326	3.6	1
567	Promiscuous Dehalogenase Activity of the Epoxide Hydrolase CorEH from Corynebacterium sp. C12. *ACS Catalysis*, **2021**, 11, 6113-6120	13.1	1
566	An ADH toolbox for raspberry ketone production from natural resources via a biocatalytic cascade. *Applied Microbiology and Biotechnology*, **2021**, 105, 4189-4197	5.7	1
565	Marine Polysaccharides: Occurrence, Enzymatic Degradation and Utilization. *ChemBioChem*, **2021**, 22, 2247-2256	3.8	13
564	Fatty Acids and their Derivatives as Renewable Platform Molecules for the Chemical Industry. *Angewandte Chemie - International Edition*, **2021**, 60, 20144-20165	16.4	33
563	Engineering the protein dynamics of an ancestral luciferase. *Nature Communications*, **2021**, 12, 3616	17.4	9
562	Entdeckung neuer bakterieller Chalconisomerasen durch eine Sequenz-Struktur-Funktions-Evolutions-Strategie für die enzymatische Synthese von (S)-Flavanonen. *Angewandte Chemie*, **2021**, 133, 17011-17016	3.6	0

561	Discovery of Novel Bacterial Chalcone Isomerases by a Sequence-Structure-Function-Evolution Strategy for Enzymatic Synthesis of (S)-Flavanones. *Angewandte Chemie - International Edition*, **2021**, 60, 16874-16879	16.4	1
560	Enzymatic degradation of polyethylene terephthalate nanoplastics analyzed in real time by isothermal titration calorimetry. *Science of the Total Environment*, **2021**, 773, 145111	10.2	14
559	Thermophilic whole-cell degradation of polyethylene terephthalate using engineered Clostridium thermocellum. *Microbial Biotechnology*, **2021**, 14, 374-385	6.3	46
558	Biocatalysis: Enzymatic Synthesis for Industrial Applications. *Angewandte Chemie - International Edition*, **2021**, 60, 88-119	16.4	226
557	Biokatalyse: Enzymatische Synthese f□ industrielle Anwendungen. *Angewandte Chemie*, **2021**, 133, 89-123	3.6	29
556	Entdeckung und Design promiskuitiver Acyltransferase-Aktivit□ in Carboxylesterasen der Familie VIII. *Angewandte Chemie*, **2021**, 133, 2041-2045	3.6	
555	Discovery and Design of Family VIII Carboxylesterases as Highly Efficient Acyltransferases. *Angewandte Chemie - International Edition*, **2021**, 60, 2013-2017	16.4	11
554	Modifikation der Regioselektivit□ einer P450-Monooxygenase erm□glicht die Synthese von Ursodeoxychols□re durch die 7□-Hydroxylierung von Lithochols□re. *Angewandte Chemie*, **2021**, 133, 764-768	3.6	0
553	Engineering Regioselectivity of a P450 Monooxygenase Enables the Synthesis of Ursodeoxycholic Acid via 7□-Hydroxylation of Lithocholic Acid. *Angewandte Chemie - International Edition*, **2021**, 60, 753-757	16.4	10
552	Repositioning microbial biotechnology against COVID-19: the case of microbial production of flavonoids. *Microbial Biotechnology*, **2021**, 14, 94-110	6.3	11
551	Kinetics Modeling of a Convergent Cascade Catalyzed by Monooxygenase□Alcohol Dehydrogenase Coupled Enzymes. *Organic Process Research and Development*, **2021**, 25, 411-420	3.9	0
550	Die gerichtete Evolution einer Halogenid-Methyltransferase erlaubt die biokatalytische Synthese diverser SAM-Analoga. *Angewandte Chemie*, **2021**, 133, 1547-1551	3.6	9
549	Directed Evolution of a Halide Methyltransferase Enables Biocatalytic Synthesis of Diverse SAM Analogs. *Angewandte Chemie - International Edition*, **2021**, 60, 1524-1527	16.4	23
548	Recent advances in (chemo)enzymatic cascades for upgrading bio-based resources. *Chemical Communications*, **2021**, 57, 10661-10674	5.8	3
547	Fluorimetric high-throughput screening method for polyester hydrolase activity using polyethylene terephthalate nanoparticles. *Methods in Enzymology*, **2021**, 648, 253-270	1.7	6
546	Recent trends in biocatalysis. *Chemical Society Reviews*, **2021**, 50, 8003-8049	58.5	38
545	Efficient Acylation of Sugars and Oligosaccharides in Aqueous Environment Using Engineered Acyltransferases. *ACS Catalysis*, **2021**, 11, 2831-2836	13.1	7
544	Biocatalysis in the Recycling Landscape for Synthetic Polymers and Plastics towards Circular Textiles. *ChemSusChem*, **2021**, 14, 4028-4040	8.3	11

543	Directed evolution of an amine transaminase for the synthesis of an Apremilast intermediate via kinetic resolution. *Bioorganic and Medicinal Chemistry*, **2021**, 43, 116271	3.4	1
542	LuxAB-Based Microbial Cell Factories for the Sensing, Manufacturing and Transformation of Industrial Aldehydes. *Catalysts*, **2021**, 11, 953	4	2
541	Rational Design for Enhanced Acyltransferase Activity in Water Catalyzed by the VA1 Esterase. *Microorganisms*, **2021**, 9,	4.9	1
540	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. *Environmental Sciences Europe*, **2021**, 33, 99	5	10
539	Chemo-Biological Upcycling of Poly(ethylene terephthalate) to Multifunctional Coating Materials. *ChemSusChem*, **2021**, 14, 4251-4259	8.3	7
538	Asymmetric Cation-Olefin Monocyclization by Engineered Squalene-Hopene Cyclases. *Angewandte Chemie - International Edition*, **2021**, 60, 26080-26086	16.4	4
537	Asymmetric Cation-Olefin Monocyclization by Engineered Squalene□Hopene Cyclases. *Angewandte Chemie*, **2021**, 133, 26284	3.6	1
536	A new carbohydrate-active oligosaccharide dehydratase is involved in the degradation of ulvan. *Journal of Biological Chemistry*, **2021**, 297, 101210	5.4	0
535	The metabolic potential of plastics as biotechnological carbon sources - Review and targets for the future.. *Metabolic Engineering*, **2021**,	9.7	6
534	Two novel cyanobacterial □dioxygenases for the biosynthesis of fatty aldehydes. *Applied Microbiology and Biotechnology*, **2021**, 106, 197	5.7	0
533	Bakterielle Mechanismen der marinen Polysaccharidverwertung. *BioSpektrum*, **2020**, 26, 800-802	0.1	
532	A Biocatalytic Cascade Reaction to Access a Valuable Long-Chain □Hydroxy Fatty Acid. *ChemCatChem*, **2020**, 12, 4084-4089	5.2	2
531	Protein Engineering for Enhanced Acyltransferase Activity, Substrate Scope, and Selectivity of the Mycobacterium smegmatis Acyltransferase MsAcT. *ACS Catalysis*, **2020**, 10, 7552-7562	13.1	22
530	Glycoside hydrolase (PelA) immobilization prevents Pseudomonas aeruginosa biofilm formation on cellulose-based wound dressing. *Carbohydrate Polymers*, **2020**, 246, 116625	10.3	12
529	Highly selective bile acid hydroxylation by the multifunctional bacterial P450 monooxygenase CYP107D1 (OleP). *Biotechnology Letters*, **2020**, 42, 819-824	3	6
528	Whole-Cell Photoenzymatic Cascades to Synthesize Long-Chain Aliphatic Amines and Esters from Renewable Fatty Acids. *Angewandte Chemie - International Edition*, **2020**, 59, 7024-7028	16.4	34
527	Whole-Cell Photoenzymatic Cascades to Synthesize Long-Chain Aliphatic Amines and Esters from Renewable Fatty Acids. *Angewandte Chemie*, **2020**, 132, 7090-7094	3.6	15
526	Creation of ()-Amine Transaminase Activity within an □Amino Acid Transaminase Scaffold. *ACS Chemical Biology*, **2020**, 15, 416-424	4.9	12

525	Folding Assessment of Incorporation of Noncanonical Amino Acids Facilitates Expansion of Functional-Group Diversity for Enzyme Engineering. *Chemistry - A European Journal*, **2020**, 26, 12338-12342	4.8	5
524	Sequence-Based Prediction of Promiscuous Acyltransferase Activity in Hydrolases. *Angewandte Chemie*, **2020**, 132, 11704-11709	3.6	9
523	Sequence-Based Prediction of Promiscuous Acyltransferase Activity in Hydrolases. *Angewandte Chemie - International Edition*, **2020**, 59, 11607-11612	16.4	25
522	Influence of Substrate Binding Residues on the Substrate Scope and Regioselectivity of a Plant O-Methyltransferase against Flavonoids. *ChemCatChem*, **2020**, 12, 3721-3727	5.2	2
521	Jeffamine® ED-600: a polyether amine donor for enzymatic transamination in organic solvent/solvent-free medium with membrane-assisted product extraction. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 604-613	3.5	3
520	A whole-cell process for the production of ε-caprolactone in aqueous media. *Process Biochemistry*, **2020**, 88, 22-30	4.8	8
519	Design and engineering of whole-cell biocatalytic cascades for the valorization of fatty acids. *Catalysis Science and Technology*, **2020**, 10, 46-64	5.5	26
518	An Ultrasensitive Fluorescence Assay for the Detection of Halides and Enzymatic Dehalogenation. *ChemCatChem*, **2020**, 12, 2032-2039	5.2	5
517	Three-liquid-phase Spinning Reactor for the Transaminase-catalyzed Synthesis and Recovery of a Chiral Amine. *ChemCatChem*, **2020**, 12, 1288-1291	5.2	1
516	Baeyer-Villiger monooxygenases: From protein engineering to biocatalytic applications. *The Enzymes*, **2020**, 47, 231-281	2.3	7
515	Enhancement of Lipase CAL-A Selectivity by Protein Engineering for the Hydrolysis of Erucic Acid from Crambe Oil. *European Journal of Lipid Science and Technology*, **2020**, 122, 1900115	3	5
514	Targeted Enzyme Engineering Unveiled Unexpected Patterns of Halogenase Stabilization. *ChemCatChem*, **2020**, 12, 818-831	5.2	16
513	A multi-enzyme cascade reaction for the production of 6-hydroxyhexanoic acid. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2019**, 74, 71-76	1.7	16
512	A Novel High-Throughput Assay Enables the Direct Identification of Acyltransferases. *Catalysts*, **2019**, 9, 64	4	12
511	Gerichtete Evolution ermöglicht das Design von maßgeschneiderten Proteinen zur nachhaltigen Produktion von Chemikalien und Pharmazeutika. *Angewandte Chemie*, **2019**, 131, 36-41	3.6	18
510	Specific Residues Expand the Substrate Scope and Enhance the Regioselectivity of a Plant O-Methyltransferase. *ChemCatChem*, **2019**, 11, 3227-3233	5.2	3
509	Random Mutagenesis-Driven Improvement of Carboxylate Reductase Activity using an Amino Benzamidoxime-Mediated High-Throughput Assay. *Advanced Synthesis and Catalysis*, **2019**, 361, 2544	5.6	18
508	Substrate-Independent High-Throughput Assay for the Quantification of Aldehydes. *Advanced Synthesis and Catalysis*, **2019**, 361, 2538	5.6	18

507	Structure of the plastic-degrading Ideonella sakaiensis MHETase bound to a substrate. *Nature Communications*, **2019**, 10, 1717	17.4	146
506	Application of novel High Molecular Weight amine donors in chiral amine synthesis facilitates integrated downstream processing and provides in situ product recovery opportunities. *Process Biochemistry*, **2019**, 80, 17-25	4.8	4
505	A Retro-biosynthesis-Based Route to Generate Pinene-Derived Polyesters. *ChemBioChem*, **2019**, 20, 1664-1671	3.8	12
504	Maghemite nanoparticles stabilize the protein corona formed with transferrin presenting different iron-saturation levels. *Nanoscale*, **2019**, 11, 16063-16070	7.7	13
503	A marine bacterial enzymatic cascade degrades the algal polysaccharide ulvan. *Nature Chemical Biology*, **2019**, 15, 803-812	11.7	52
502	Maßgeschneiderte Proteine. *Chemie in Unserer Zeit*, **2019**, 53, 382-385	0.2	
501	Strategies for enriching erucic acid from Crambe abyssinica oil by improved Candida antarctica lipase A variants. *Process Biochemistry*, **2019**, 79, 65-73	4.8	14
500	How To Break the Janus Effect of H2O2 in Biocatalysis? Understanding Inactivation Mechanisms To Generate more Robust Enzymes. *ACS Catalysis*, **2019**, 9, 2916-2921	13.1	15
499	Enrichment of Erucic and Gondoic Fatty Acids from Crambe and Camelina Oils Catalyzed by Geotrichum candidum Lipases I and II. *JAOCS, Journal of the American Oil Chemistsj Society*, **2019**, 96, 1327-1335	1.8	4
498	Conformational fitting of a flexible oligomeric substrate does not explain the enzymatic PET degradation. *Nature Communications*, **2019**, 10, 5581	17.4	48
497	One-Pot Bioconversion of l-Arabinose to l-Ribulose in an Enzymatic Cascade. *Angewandte Chemie - International Edition*, **2019**, 58, 2428-2432	16.4	21
496	Biocatalytic Production of Amino Carbohydrates through Oxidoreductase and Transaminase Cascades. *ChemSusChem*, **2019**, 12, 848-857	8.3	21
495	Enzyme Cascade Reactions for the Biosynthesis of Long Chain Aliphatic Amines from Renewable Fatty Acids. *Advanced Synthesis and Catalysis*, **2019**, 361, 1359-1367	5.6	21
494	One-Pot Bioconversion of l-Arabinose to l-Ribulose in an Enzymatic Cascade. *Angewandte Chemie*, **2019**, 131, 2450-2454	3.6	5
493	Directed Evolution Empowered Redesign of Natural Proteins for the Sustainable Production of Chemicals and Pharmaceuticals. *Angewandte Chemie - International Edition*, **2019**, 58, 36-40	16.4	112
492	Biocatalytic Cascade Reaction for the Asymmetric Synthesis of L- and D-Homoalanine. *ChemCatChem*, **2019**, 11, 407-411	5.2	12
491	Oxidative demethylation of algal carbohydrates by cytochrome P450 monooxygenases. *Nature Chemical Biology*, **2018**, 14, 342-344	11.7	34
490	Getting Momentum: From Biocatalysis to Advanced Synthetic Biology. *Trends in Biochemical Sciences*, **2018**, 43, 180-198	10.3	58

489	Enzymes in Lipid Modification. *Annual Review of Food Science and Technology*, **2018**, 9, 85-103	14.7	47
488	Enzymatically Modified Shea Butter and Palm Kernel Oil as Potential Lipid Drug Delivery Matrices. *European Journal of Lipid Science and Technology*, **2018**, 120, 1700332	3	3
487	Opportunities and challenges for combining chemo- and biocatalysis. *Nature Catalysis*, **2018**, 1, 12-22	36.5	333
486	Asymmetric Synthesis of Chiral Halogenated Amines using Amine Transaminases. *ChemCatChem*, **2018**, 10, 951-955	5.2	14
485	Library Growth and Protein Expression: Optimal and Reproducible Microtiter Plate Expression of Recombinant Enzymes in E. coli Using MTP Shakers. *Methods in Molecular Biology*, **2018**, 1685, 145-156	1.4	
484	Solid-Phase Agar Plate Assay for Screening Amine Transaminases. *Methods in Molecular Biology*, **2018**, 1685, 283-296	1.4	1
483	Normalized Screening of Protein Engineering Libraries by Split-GFP Crude Cell Extract Quantification. *Methods in Molecular Biology*, **2018**, 1685, 157-170	1.4	2
482	Baeyer-Villiger monooxygenases from Yarrowia lipolytica catalyze preferentially sulfoxidations. *Enzyme and Microbial Technology*, **2018**, 109, 31-42	3.8	18
481	Co-expression of an alcohol dehydrogenase and a cyclohexanone monooxygenase for cascade reactions facilitates the regeneration of the NADPH cofactor. *Enzyme and Microbial Technology*, **2018**, 108, 53-58	3.8	34
480	Enzymes in Lipid Modification: An Overview **2018**, 1-9		5
479	Protein Engineering of the Progesterone Hydroxylating P450-Monooxygenase CYP17A1 Alters Its Regioselectivity. *ChemBioChem*, **2018**, 19, 1954-1958	3.8	6
478	□Phenylalanine Ester Synthesis from Stable □Keto Ester Substrate Using Engineered □Transaminases. *Molecules*, **2018**, 23,	4.8	9
477	Alteration of Chain Length Selectivity of Lipase A by Semi-Rational Design for the Enrichment of Erucic and Gondoic Fatty Acids. *Advanced Synthesis and Catalysis*, **2018**, 360, 4115-4131	5.6	20
476	Biochemical characterization of an ulvan lyase from the marine flavobacterium Formosa agariphila KMM 3901. *Applied Microbiology and Biotechnology*, **2018**, 102, 6987-6996	5.7	24
475	Program-Guided Design of High-Throughput Enzyme Screening Experiments and Automated Data Analysis/Evaluation. *Methods in Molecular Biology*, **2018**, 1685, 269-282	1.4	
474	Hot spots for the protein engineering of Baeyer-Villiger monooxygenases. *Biotechnology Advances*, **2018**, 36, 247-263	17.8	51
473	Simultaneous detection of NADPH consumption and HO production using the Amplifl□Red assay for screening of P450 activities and uncoupling. *Applied Microbiology and Biotechnology*, **2018**, 102, 985-994	5.7	29
472	The fourth wave of biocatalysis is approaching. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376,	3	82

471	Biocompatible metal-assisted C-C cross-coupling combined with biocatalytic chiral reductions in a concurrent tandem cascade. *Chemical Communications*, **2018**, 54, 12978-12981	5.8	18
470	Specificity and mechanism of carbohydrate demethylation by cytochrome P450 monooxygenases. *Biochemical Journal*, **2018**, 475, 3875-3886	3.8	7
469	In Silico Based Engineering Approach to Improve Transaminases for the Conversion of Bulky Substrates. *ACS Catalysis*, **2018**, 8, 11524-11533	13.1	18
468	Combination of the Suzuki-Miyaura Cross-Coupling Reaction with Engineered Transaminases. *Chemistry - A European Journal*, **2018**, 24, 16009-16013	4.8	30
467	Isopropylamine as Amine Donor in Transaminase-Catalyzed Reactions: Better Acceptance through Reaction and Enzyme Engineering. *ChemCatChem*, **2018**, 10, 3943-3949	5.2	22
466	Fusion proteins of an enoate reductase and a Baeyer-Villiger monooxygenase facilitate the synthesis of chiral lactones. *Biological Chemistry*, **2017**, 398, 31-37	4.5	24
465	From waste to value □direct utilization of limonene from orange peel in a biocatalytic cascade reaction towards chiral carvolactone. *Green Chemistry*, **2017**, 19, 367-371	10	51
464	Kinetic insights into ?-caprolactone synthesis: Improvement of an enzymatic cascade reaction. *Biotechnology and Bioengineering*, **2017**, 114, 1215-1221	4.9	37
463	An alternative approach towards poly-□caprolactone through a chemoenzymatic synthesis: combined hydrogenation, bio-oxidations and polymerization without the isolation of intermediates. *Green Chemistry*, **2017**, 19, 1286-1290	10	28
462	Enzyme Technology: History and Current Trends **2017**, 11-46		3
461	Controlling the Regioselectivity of Baeyer-Villiger Monooxygenases by Mutation of Active-Site Residues. *ChemBioChem*, **2017**, 18, 1627-1638	3.8	29
460	NewProt - a protein engineering portal. *Protein Engineering, Design and Selection*, **2017**, 30, 441-447	1.9	11
459	Diastereoselective Hydrolysis of Branched Malonate Diesters by Porcine Liver Esterase: Synthesis of 5-Benzyl-Substituted C□Methyl-□proline and Catalytic Evaluation. *European Journal of Organic Chemistry*, **2017**, 2017, 3009-3016	3.2	2
458	Kinetic Modeling of an Enzymatic Redox Cascade In Vivo Reveals Bottlenecks Caused by Cofactors. *ChemCatChem*, **2017**, 9, 3420-3427	5.2	22
457	A Microtiter Plate-Based Assay to Screen for Active and Stereoselective Hydrolytic Enzymes in Enzyme Libraries. *Methods in Molecular Biology*, **2017**, 1539, 197-204	1.4	1
456	A Retrosynthesis Approach for Biocatalysis in Organic Synthesis. *Chemistry - A European Journal*, **2017**, 23, 12040-12063	4.8	126
455	Multiple States of Nitrile Hydratase from Rhodococcus equi TG328-2: Structural and Mechanistic Insights from Electron Paramagnetic Resonance and Density Functional Theory Studies. *Biochemistry*, **2017**, 56, 3068-3077	3.2	8
454	Amine Transaminase Engineering for Spatially Bulky Substrate Acceptance. *ChemBioChem*, **2017**, 18, 1022-1026	3.8	30

453	First chemo-enzymatic synthesis of the ()-Taniguchi lactone and substrate profiles of CAMO and OTEMO, two new Baeyer-Villiger monooxygenases. *Monatshefte F Chemie*, **2017**, 148, 157-165	1.4	15
452	Biotransformation and reduction of estrogenicity of bisphenol A by the biphenyl-degrading Cupriavidus basilensis. *Applied Microbiology and Biotechnology*, **2017**, 101, 3743-3758	5.7	9
451	A Systematic Analysis of the Substrate Scope of (S)- and (R)-Selective Amine Transaminases. *Advanced Synthesis and Catalysis*, **2017**, 359, 4235-4243	5.6	13
450	CorNet: Assigning function to networks of co-evolving residues by automated literature mining. *PLoS ONE*, **2017**, 12, e0176427	3.7	11
449	Evolving Enzymes for Biocatalysis **2017**, 271-287		
448	Asymmetric synthesis of serinol-monoesters catalyzed by amine transaminases. *Tetrahedron: Asymmetry*, **2017**, 28, 1183-1187		4
447	New Ligands **2017**, 809-950		0
446	Bioinformatic analysis of fold-type III PLP-dependent enzymes discovers multimeric racemases. *Applied Microbiology and Biotechnology*, **2017**, 101, 1499-1507	5.7	1
445	Process Development through Solvent Engineering in the Biocatalytic Synthesis of the Heterocyclic Bulk Chemical Caprolactone. *Journal of Heterocyclic Chemistry*, **2017**, 54, 391-396	1.9	17
444	Alkene hydrogenation activity of enoate reductases for an environmentally benign biosynthesis of adipic acid. *Chemical Science*, **2017**, 8, 1406-1413	9.4	58
443	Enzymatic Cleavage of Aryl Acetates. *ChemCatChem*, **2016**, 8, 2853-2857	5.2	1
442	Engineering the Amine Transaminase from Vibrio fluvialis towards Branched-Chain Substrates. *ChemCatChem*, **2016**, 8, 3199-3202	5.2	35
441	Flavonoid Biotechnology New Ways to High-Added-Value Compounds **2016**, 179-198		
440	Identification of (S)-selective transaminases for the asymmetric synthesis of bulky chiral amines. *Nature Chemistry*, **2016**, 8, 1076-1082	17.6	152
439	Structural Basis for Phospholyase Activity of a Class III Transaminase Homologue. *ChemBioChem*, **2016**, 17, 2308-2311	3.8	4
438	A directed mutational approach demonstrates that a putative linoleate isomerase from Lactobacillus acidophilus does not hydrate or isomerize linoleic acid. *European Journal of Lipid Science and Technology*, **2016**, 118, 841-848	3	5
437	Recombinant Pig Liver Esterase-Catalyzed Synthesis of (1S,4R)-4-Hydroxy-2-cyclopentenyl Acetate Combined with Subsequent Enantioselective Crystallization. *Organic Process Research and Development*, **2016**, 20, 1258-1264	3.9	7
436	Engineering and application of enzymes for lipid modification, an update. *Progress in Lipid Research*, **2016**, 63, 153-64	14.3	48

435	Efficient phosphatidylserine synthesis by a phospholipase D from Streptomyces sp. SC734 isolated from soil-contaminated palm oil. *European Journal of Lipid Science and Technology*, **2016**, 118, 803-813	3	13
434	Bacillus anthracis □amino acid:pyruvate transaminase employs a different mechanism for dual substrate recognition than other amine transaminases. *Applied Microbiology and Biotechnology*, **2016**, 100, 4511-21	5.7	8
433	Highly efficient and easy protease-mediated protein purification. *Applied Microbiology and Biotechnology*, **2016**, 100, 1945-1953	5.7	3
432	Protein engineering: Beating the odds. *Nature Chemical Biology*, **2016**, 12, 54-5	11.7	16
431	MICROBIOLOGY. Feeding on plastic. *Science*, **2016**, 351, 1154-5	33.3	72
430	Synthesis of (1R,3R)-1-amino-3-methylcyclohexane by an enzyme cascade reaction. *Tetrahedron*, **2016**, 72, 7207-7211	2.4	17
429	Cellulose as an efficient matrix for lipase and transaminase immobilization. *RSC Advances*, **2016**, 6, 6665-6671	3.7	23
428	Switching the Regioselectivity of a Cyclohexanone Monooxygenase toward (+)-trans-Dihydrocarvone by Rational Protein Design. *ACS Chemical Biology*, **2016**, 11, 38-43	4.9	41
427	Fully automatized high-throughput enzyme library screening using a robotic platform. *Biotechnology and Bioengineering*, **2016**, 113, 1421-32	4.9	55
426	3'-UTR engineering to improve soluble expression and fine-tuning of activity of cascade enzymes in Escherichia coli. *Scientific Reports*, **2016**, 6, 29406	4.9	16
425	Evolving Enzymes for Biocatalysis **2016**, 1-17		1
424	Fast, Continuous, and High-Throughput (Bio)Chemical Activity Assay for N-Acyl-l-Homoserine Lactone Quorum-Quenching Enzymes. *Applied and Environmental Microbiology*, **2016**, 82, 4145-54	4.8	8
423	A Fed-Batch Synthetic Strategy for a Three-Step Enzymatic Synthesis of Poly-?-caprolactone. *ChemCatChem*, **2016**, 8, 3446-3452	5.2	42
422	Switch in Cofactor Specificity of a Baeyer-Villiger Monooxygenase. *ChemBioChem*, **2016**, 17, 2312-2315	3.8	31
421	Protein-engineering of an amine transaminase for the stereoselective synthesis of a pharmaceutically relevant bicyclic amine. *Organic and Biomolecular Chemistry*, **2016**, 14, 10249-10254	3.9	36
420	Enzyme fusion for whole-cell biotransformation of long-chain sec-alcohols into esters. *Applied Microbiology and Biotechnology*, **2015**, 99, 6267-75	5.7	42
419	Exploration of the Substrate Promiscuity of Biosynthetic Tailoring Enzymes as a New Source of Structural Diversity for Polyene Macrolide Antifungals. *ChemCatChem*, **2015**, 7, 490-500	5.2	10
418	Eine Roboterplattform f□ das Hochdurchsatz-Screening von Biokatalysatoren. *BioSpektrum*, **2015**, 21, 230-231	0.1	1

417	Two subtle amino Acid changes in a transaminase substantially enhance or invert enantiopreference in cascade syntheses. *ChemBioChem*, **2015**, 16, 1041-5	3.8	37
416	Simultaneous use of in silico design and a correlated mutation network as a tool to efficiently guide enzyme engineering. *ChemBioChem*, **2015**, 16, 805-10	3.8	24
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