# Birgit Wiltschi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/110128/publications.pdf

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|---|---|---|---|
| 36 papers | 800 citations | 567281 15 h-index | 526287 27 g-index |
| 38 all docs | 38 docs citations | 38 times ranked | 920 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Residue-Specific Incorporation of the Non-Canonical Amino Acid Norleucine Improves Lipase Activity on Synthetic Polyesters. Frontiers in Bioengineering and Biotechnology, 2022, 10, 769830. | 4.1 | 3 |
| 2 | Engineering the Ligand Specificity of the Human Galectinâ€1 by Incorporation of Tryptophan Analogues. ChemBioChem, 2022, , . | 2.6 | 2 |
| 3 | Engineering cascade biocatalysis in whole cells for bottom-up synthesis of cello-oligosaccharides: flux control over three enzymatic steps enables soluble production. Microbial Cell Factories, 2022, 21, 61. | 4.0 | 7 |
| 4 | Fast Protein Modification in the Nanomolar Concentration Range Using an Oxalyl Amide as Latent Thioester. Angewandte Chemie - International Edition, 2022, , . | 13.8 | 4 |
| 5 | Plasmid Design for Tunable Twoâ€Enzyme Coâ€Expression Promotes Wholeâ€Cell Production of Cellobiose. Biotechnology Journal, 2020, 15, e2000063. | 3.5 | 13 |
| 6 | Decoupling Protein Production from Cell Growth Enhances the Site-Specific Incorporation of Noncanonical Amino Acids in E.Âcoli. ACS Synthetic Biology, 2020, 9, 3052-3066. | 3.8 | 18 |
| 7 | A Machine Learning Approach for Efficient Selection of Enzyme Concentrations and Its Application for Flux Optimization. Catalysts, 2020, 10, 291. | 3.5 | 13 |
| 8 | Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications. Biotechnology Advances, 2020, 40, 107520. | 11.7 | 97 |
| 9 | Site-Specific Incorporation of Non-canonical Amino Acids by Amber Stop Codon Suppression in Escherichia coli. Springer Protocols, 2020, , 267-281. | 0.3 | 0 |
| 10 | A Semi-Rationally Engineered Bacterial Pyrrolysyl-tRNA Synthetase Genetically Encodes Phenyl Azide Chemistry. Biotechnology Journal, 2019, 14, 1800125. | 3.5 | 10 |
| 11 | â€˜Clickable lectinsâ€™: bioorthogonal reactive handles facilitate the directed conjugation of lectins in a modular fashion. Interface Focus, 2019, 9, 20180072. | 3.0 | 9 |
| 12 | Substituting the catalytic proline of 4-oxalocrotonate tautomerase with non-canonical analogues reveals a finely tuned catalytic system. Scientific Reports, 2019, 9, 2697. | 3.3 | 6 |
| 13 | Effect of Noncanonical Amino Acids on Proteinâ€“Carbohydrate Interactions: Structure, Dynamics, and Carbohydrate Affinity of a Lectin Engineered with Fluorinated Tryptophan Analogs. ACS Chemical Biology, 2018, 13, 2211-2219. | 3.4 | 22 |
| 14 | Molecular cloning, expression, and characterization of acyltransferase from Pseudomonas protegens. Applied Microbiology and Biotechnology, 2018, 102, 6057-6068. | 3.6 | 8 |
| 15 | Biocatalytic Friedelâ€“Crafts Acylation and Fries Reaction. Angewandte Chemie - International Edition, 2017, 56, 7615-7619. | 13.8 | 54 |
| 16 | Systems biocatalysis: para-alkenylation of unprotected phenols. Catalysis Science and Technology, 2016, 6, 8098-8103. | 4.1 | 7 |
| 17 | High-level biosynthesis of norleucine in E. coli for the economic labeling of proteins. Journal of Biotechnology, 2016, 235, 100-111. | 3.8 | 19 |
| 18 | Incorporation of non-canonical amino acids into proteins in yeast. Fungal Genetics and Biology, 2016, 89, 137-156. | 2.1 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Protein Building Blocks and the Expansion of the Genetic Code. , 2016, , 143-209. | | 3 |
| 20 | Chapter 14. Synthetic Biology for Organic Syntheses. RSC Green Chemistry, 2016, , 165-179. | 0.1 | 0 |
| 21 | A synthetic biology approach for the transformation of <scp>l</scp>-Î±-amino acids to the corresponding enantiopure (R)- or (S)-Î±-hydroxy acids. Chemical Communications, 2015, 51, 2828-2831. | 4.1 | 33 |
| 22 | Fluoro amino acids: A rarity in nature, yet a prospect for protein engineering. Biotechnology Journal, 2015, 10, 427-446. | 3.5 | 49 |
| 23 | Non-canonical amino acids as a useful synthetic biological tool for lipase-catalysed reactions in hostile environments. Catalysis Science and Technology, 2013, 3, 1198. | 4.1 | 38 |
| 24 | Integrin-Functionalized Artificial Membranes as Test Platforms for Monitoring Small Integrin Ligand Binding by Surface Plasmonâ€“Enhanced Fluorescence Spectroscopy. , 2013, , 705-745. | | 0 |
| 25 | Expressed Protein Modifications: Making Synthetic Proteins. Methods in Molecular Biology, 2012, 813, 211-225. | 0.9 | 12 |
| 26 | Evaluation of bicinchoninic acid as a ligand for copper(i)-catalyzed azideâ€“alkyne bioconjugations. Organic and Biomolecular Chemistry, 2012, 10, 6629. | 2.8 | 7 |
| 27 | Lipase Congeners Designed by Genetic Code Engineering. ChemCatChem, 2011, 3, 213-221. | 3.7 | 65 |
| 28 | Residue-specific global fluorination of Candida antarctica lipase B in Pichia pastoris. Molecular BioSystems, 2010, 6, 1630. | 2.9 | 60 |
| 29 | Fine Tuning the Nâ€Terminal Residue Excision with Methionine Analogues. ChemBioChem, 2009, 10, 217-220. | 2.6 | 25 |
| 30 | Expanding the genetic code of Saccharomyces cerevisiae with methionine analogues. Yeast, 2008, 25, 775-786. | 1.7 | 21 |
| 31 | Synthetic Biology of Proteins: Tuning GFPs Folding and Stability with Fluoroproline. PLoS ONE, 2008, 3, e1680. | 2.5 | 96 |
| 32 | In Vivo Chemoenzymatic Control of Nâ€Terminal Processing in Recombinant Human Epidermal Growth Factor. ChemBioChem, 2007, 8, 2227-2232. | 2.6 | 13 |
| 33 | Sterol Binding Assay Using Surface Plasmon Fluorescence Spectroscopy. Analytical Chemistry, 2006, 78, 547-555. | 6.5 | 7 |
| 34 | Binding of Small Mono- and Oligomeric Integrin Ligands to Membrane-Embedded Integrins Monitored by Surface Plasmon-Enhanced Fluorescence Spectroscopy. Analytical Chemistry, 2006, 78, 4524-4533. | 6.5 | 21 |
| 35 | Binding assays with artificial tethered membranes using surface plasmon resonance. Methods, 2006, 39, 134-146. | 3.8 | 28 |
| 36 | Fast Protein Modification in the Nanomolar Concentration Range Using an Oxalyl Amide as Latent Thioester. Angewandte Chemie, 0, , . | 2.0 | 0 |