

# Ulrich Schwaneberg

## List of Publications by Year in descending order

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Version: 2024-02-01

350  
papers

11,114  
citations

34493

54  
h-index

75989

78  
g-index

379  
all docs

379  
docs citations

379  
times ranked

8556  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Kill&Repel Coatings: The Marriage of Antifouling and Bactericidal Properties to Mitigate and Treat Wound Infections. <i>Advanced Functional Materials</i> , 2022, 32, 2106656.   | 7.8 | 24        |
| 2  | Natural Product Diversification by One-Step Biocatalysis using Human P450 3A4. <i>ChemCatChem</i> , 2022, 14, .  | 1.8 | 7         |
| 3  | Phytase blends for enhanced phosphorous mobilization of deoiled seeds. <i>Enzyme and Microbial Technology</i> , 2022, 153, 109953.   | 1.6 | 4         |
| 4  | Using Molecular Simulation to Guide Protein Engineering for Biocatalysis in Organic Solvents. <i>Methods in Molecular Biology</i> , 2022, 2397, 179-202.   | 0.4 | 3         |
| 5  | Recombination of Compatible Substitutions by 2GenReP and InSiReP. <i>Methods in Molecular Biology</i> , 2022, 2397, 71-81.   | 0.4 | 6         |
| 6  | A plea for the integration of Green Toxicology in sustainable bioeconomy strategies – Biosurfactants and microgel-based pesticide release systems as examples. <i>Journal of Hazardous Materials</i> , 2022, 426, 127800.              | 6.5 | 5         |
| 7  | Critical assessment of structure-based approaches to improve protein resistance in aqueous ionic liquids by enzyme-wide saturation mutagenesis. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 399-409.         | 1.9 | 7         |
| 8  | Endogenous Nitric Oxide-Releasing Microgel Coating Prevents Clot Formation on Oxygenator Fibers Exposed to In Vitro Blood Flow. <i>Membranes</i> , 2022, 12, 73.   | 1.4 | 9         |
| 9  | Preparative Production of Functionalized (N- and O-Heterocyclic) Polycyclic Aromatic Hydrocarbons by Human Cytochrome P450 3A4 in a Bioreactor. <i>Biomolecules</i> , 2022, 12, 153.   | 1.8 | 1         |
| 10 | Polar Substitutions on the Surface of a Lipase Substantially Improve Tolerance in Organic Solvents. <i>ChemSusChem</i> , 2022, 15, .   | 3.6 | 17        |
| 11 | Structure and Cooperativity in Substrate-Enzyme Interactions: Perspectives on Enzyme Engineering and Inhibitor Design. <i>ACS Chemical Biology</i> , 2022, 17, 266-280.  | 1.6 | 8         |
| 12 | In Silico and Experimental ADAM17 Kinetic Modeling as Basis for Future Screening System for Modulators. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1368.   | 1.8 | 4         |
| 13 | Optimized Hemolysin Type 1 Secretion System in <i>Escherichia coli</i> by Directed Evolution of the Hly Enhancer Fragment and Including a Terminator Region. <i>ChemBioChem</i> , 2022, , .  | 1.3 | 3         |
| 14 | Modulating the Coupling Efficiency of P450 BM3 by Controlling Water Diffusion through Access Tunnel Engineering. <i>ChemSusChem</i> , 2022, 15, .  | 3.6 | 12        |
| 15 | How Does Surface Charge Engineering of <i>Bacillus subtilis</i> Lipase A Improve Ionic Liquid Resistance? Lessons Learned from Molecular Dynamics Simulations. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2689-2698. | 3.2 | 15        |
| 16 | Conditioning of Feed Material Prior to Feeding: Approaches for a Sustainable Phosphorus Utilization. <i>Sustainability</i> , 2022, 14, 3998.   | 1.6 | 5         |
| 17 | Evolution of <i>E. coli</i> Phytase Toward Improved Hydrolysis of Inositol Tetraphosphate. <i>Frontiers in Chemical Engineering</i> , 2022, 4, .   | 1.3 | 5         |
| 18 | High-Yield Synthesis of Enantiopure 1,2-Amino Alcohols from $\alpha$ -Phenylalanine via Linear and Divergent Enzymatic Cascades. <i>Organic Process Research and Development</i> , 2022, 26, 2085-2095.                                | 1.3 | 15        |

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|----|--|-----|-----------|
| 19 | Combinatorial InVitroFlow-assisted mutagenesis (CombIMut) yields a 41-fold improved CelA2 cellulase. <i>Biotechnology and Bioengineering</i> , 2022, , .                                     | 1.7 | 5         |
| 20 | BioAdhere: tailor-made bioadhesives for epiretinal visual prostheses. <i>Biomaterials Science</i> , 2022, 10, 3282-3295.   | 2.6 | 2         |
| 21 | Rational Design Yields Molecular Insights on Leaf-Binding of Anchor Peptides. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28412-28426.   | 4.0 | 4         |
| 22 | Structure protects function - An enabler for the functionalization of component surfaces by biohybrid coatings. <i>Procedia CIRP</i> , 2022, 110, 133-138.                                   | 1.0 | 2         |
| 23 | Using a bio-economic farm model to evaluate the economic potential and pesticide load reduction of the greenRelease technology. <i>Agricultural Systems</i> , 2022, 201, 103454.             | 3.2 | 4         |
| 24 | Directed Evolution of a Cp*Rh <sup>III</sup> -linked Biohybrid Catalyst Based on a Screening Platform with Affinity Purification. <i>ChemBioChem</i> , 2021, 22, 679-685.                    | 1.3 | 10        |
| 25 | CompassR Yields Highly Organic-solvent-tolerant Enzymes through Recombination of Compatible Substitutions. <i>Chemistry - A European Journal</i> , 2021, 27, 2789-2797.                      | 1.7 | 28        |
| 26 | A Photoclick-based High-throughput Screening for the Directed Evolution of Decarboxylase OleT. <i>Chemistry - A European Journal</i> , 2021, 27, 954-958.                                    | 1.7 | 7         |
| 27 | An artificial ruthenium-containing $\beta$ -barrel protein for alkene-alkyne coupling reaction. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 2912-2916.                             | 1.5 | 6         |
| 28 | Chemogenetic engineering of nitrobindin toward an artificial epoxygenase. <i>Catalysis Science and Technology</i> , 2021, 11, 4491-4499.   | 2.1 | 5         |
| 29 | Understanding substrate binding and the role of gatekeeping residues in PigC access tunnels. <i>Chemical Communications</i> , 2021, 57, 2681-2684.   | 2.2 | 10        |
| 30 | CompassR-guided recombination unlocks design principles to stabilize lipases in ILs with minimal experimental efforts. <i>Green Chemistry</i> , 2021, 23, 3474-3486.                         | 4.6 | 26        |
| 31 | Fe(III)-complex mediated bacterial cell surface immobilization of eGFP and enzymes. <i>Chemical Communications</i> , 2021, 57, 4460-4463.  | 2.2 | 4         |
| 32 | KnowVolution of prodigiosin ligase PigC towards condensation of short-chain prodiginines. <i>Catalysis Science and Technology</i> , 2021, 11, 2805-2815.                                     | 2.1 | 9         |
| 33 | Anchor peptides promote degradation of mixed plastics for recycling. <i>Methods in Enzymology</i> , 2021, 648, 271-292.  | 0.4 | 10        |
| 34 | A peptide-based coating toolbox to enable click chemistry on polymers, metals, and silicon through sortagging. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1520-1530.               | 1.7 | 10        |
| 35 | Rapid and Oriented Immobilization of Laccases on Electrodes via a Methionine-Rich Peptide. <i>ACS Catalysis</i> , 2021, 11, 2445-2453.   | 5.5 | 31        |
| 36 | Construction of a whole-cell biohybrid catalyst using a Cp*Rh(III)-dithiophosphate complex as a precursor of a metal cofactor. <i>Journal of Inorganic Biochemistry</i> , 2021, 216, 111352. | 1.5 | 8         |

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|----|--|------|-----------|
| 37 | Less Unfavorable Salt Bridges on the Enzyme Surface Result in More Organic Cosolvent Resistance. <i>Angewandte Chemie</i> , 2021, 133, 11549-11557.  | 1.6  | 6         |
| 38 | Less Unfavorable Salt Bridges on the Enzyme Surface Result in More Organic Cosolvent Resistance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11448-11456.   | 7.2  | 45        |
| 39 | Chemogenetic Evolution of a Peroxidase-like Artificial Metalloenzyme. <i>ACS Catalysis</i> , 2021, 11, 5079-5087.  | 5.5  | 21        |
| 40 | Tunnel engineering for modulating the substrate preference in cytochrome P450Bs <sup>2</sup> HI. <i>Bioresources and Bioprocessing</i> , 2021, 8, .  | 2.0  | 14        |
| 41 | Unraveling the Mechanism and Kinetics of Binding of an LCI <sup>2</sup> GFP <sup>2</sup> Polymer for Antifouling Coatings. <i>Macromolecular Bioscience</i> , 2021, 21, e2100158.  | 2.1  | 6         |
| 42 | Reprint of: Application cases of biological transformation in manufacturing technology. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 34, 95-95.   | 2.3  | 2         |
| 43 | PyPEF <sup>2</sup> An Integrated Framework for Data-Driven Protein Engineering. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 3463-3476.   | 2.5  | 20        |
| 44 | MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. <i>Environmental Sciences Europe</i> , 2021, 33, 99.   | 2.6  | 33        |
| 45 | Generation of phytase chimeras with low sequence identities and improved thermal stability. <i>Journal of Biotechnology</i> , 2021, 339, 14-21.  | 1.9  | 4         |
| 46 | Expression and Refolding of the Plant Chitinase From <i>Drosera capensis</i> for Applications as a Sustainable and Integrated Pest Management. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 728501.                       | 2.0  | 3         |
| 47 | Enzyme mimetic microgel coating for endogenous nitric oxide mediated inhibition of platelet activation. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 604-616.  | 5.0  | 14        |
| 48 | Can constraint network analysis guide the identification phase of KnowVolution? A case study on improved thermostability of an endo- <sup>2</sup> -glucanase. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 743-751. | 1.9  | 6         |
| 49 | The molecular basis of spectral tuning in blue- and red-shifted flavin-binding fluorescent proteins. <i>Journal of Biological Chemistry</i> , 2021, 296, 100662.   | 1.6  | 17        |
| 50 | High-throughput quantification of ochronotic pigment formation in <i>Escherichia coli</i> to evaluate the potency of human 4-hydroxyphenylpyruvate dioxygenase inhibitors in multi-well format. <i>MethodsX</i> , 2021, 8, 101181.           | 0.7  | 1         |
| 51 | Aqueous ionic liquids redistribute local enzyme stability via long-range perturbation pathways. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 4248-4264.   | 1.9  | 14        |
| 52 | Protein Nanopore Membranes Prepared by a Simple Langmuir <sup>2</sup> Schaefer Approach. <i>Small</i> , 2021, 17, e2102975.  | 5.2  | 3         |
| 53 | Engineering and emerging applications of artificial metalloenzymes with whole cells. <i>Nature Catalysis</i> , 2021, 4, 814-827.   | 16.1 | 38        |
| 54 | Whole-cell screening of oxidative enzymes using genetically encoded sensors. <i>Chemical Science</i> , 2021, 12, 14766-14772.  | 3.7  | 6         |

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|----|--|------|-----------|
| 55 | Matterâ€‹ <i>tag</i> : A universal immobilization platform for enzymes on polymers, metals, and siliconâ€‹based materials. <i>Biotechnology and Bioengineering</i> , 2020, 117, 49-61.   | 1.7  | 32        |
| 56 | Computerâ€‹Assisted Recombination (CompassR) Teaches us How to Recombine Beneficial Substitutions from Directed Evolution Campaigns. <i>Chemistry - A European Journal</i> , 2020, 26, 643-649.  | 1.7  | 57        |
| 57 | Systematically Scrutinizing the Impact of Substitution Sites on Thermostability and Detergent Tolerance for <i>Bacillus subtilis</i> Lipase A. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1568-1584.                        | 2.5  | 21        |
| 58 | Advances in ultrahigh-throughput screening for directed enzyme evolution. <i>Chemical Society Reviews</i> , 2020, 49, 233-262.   | 18.7 | 182       |
| 59 | Enhancing Robustness of Sortase A by Loop Engineering and Backbone Cyclization. <i>Chemistry - A European Journal</i> , 2020, 26, 13537-13537.   | 1.7  | 3         |
| 60 | Designed <i>Streptococcus pyogenes</i> Sortase A Accepts Branched Amines as Nucleophiles in Sortagging. <i>Bioconjugate Chemistry</i> , 2020, 31, 2476-2481.   | 1.8  | 13        |
| 61 | MicroGelzymes: pH-Independent Immobilization of Cytochrome P450 BM3 in Microgels. <i>Biomacromolecules</i> , 2020, 21, 5128-5138.  | 2.6  | 25        |
| 62 | Enzyme Hydration Determines Resistance in Organic Cosolvents. <i>ACS Catalysis</i> , 2020, 10, 14847-14856.  | 5.5  | 53        |
| 63 | KnowVolution of a GH5 Cellulase from <i>Penicillium verrucosum</i> to Improve Thermal Stability for Biomass Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12388-12399.  | 3.2  | 29        |
| 64 | Fhuâ€‹Grubbsâ€‹Hoveyda Biohybrid Catalyst Embedded in a Polymer Film Enables Catalysis in Neat Substrates. <i>ACS Catalysis</i> , 2020, 10, 10946-10953.   | 5.5  | 5         |
| 65 | Incorporation of a Cp*Rh(III)-dithiophosphate Cofactor with Latent Activity into a Protein Scaffold Generates a Biohybrid Catalyst Promoting C(sp <sup>2</sup> )â€‹H Bond Functionalization. <i>Inorganic Chemistry</i> , 2020, 59, 14457-14463. | 1.9  | 12        |
| 66 | Display of functional nucleic acid polymerase on Escherichia coli surface and its application in directed polymerase evolution. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3699-3711.  | 1.7  | 4         |
| 67 | Biocatalytic microgels (1/4-Gelzymes): synthesis, concepts, and emerging applications. <i>Green Chemistry</i> , 2020, 22, 8183-8209.   | 4.6  | 23        |
| 68 | Application cases of biological transformation in manufacturing technology. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020, 31, 68-77.   | 2.3  | 15        |
| 69 | Machine learning-assisted enzyme engineering. <i>Methods in Enzymology</i> , 2020, 643, 281-315.   | 0.4  | 59        |
| 70 | A colourimetric high-throughput screening system for directed evolution of prodigiosin ligase PigC. <i>Chemical Communications</i> , 2020, 56, 8631-8634.  | 2.2  | 11        |
| 71 | Effects of Proline Substitutions on the Thermostable LOV Domain from <i>Chloroflexus aggregans</i> . <i>Crystals</i> , 2020, 10, 256.  | 1.0  | 14        |
| 72 | Engineering Robust Cellulases for Tailored Lignocellulosic Degradation Cocktails. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1589.   | 1.8  | 68        |

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| 73 | Enhancing Robustness of Sortase A by Loop Engineering and Backbone Cyclization. Chemistry - A European Journal, 2020, 26, 13568-13572.  | 1.7 | 11        |
| 74 | Directed evolution of VanR biosensor specificity in yeast. Biotechnology Notes, 2020, 1, 9-15.  | 0.7 | 17        |
| 75 | Activation of a Photoenzyme Results in Modified Structure and Dynamics. Biophysical Journal, 2020, 118, 192a-193a.  | 0.2 | 0         |
| 76 | Phytase-Based Phosphorus Recovery Process for 20 Distinct Press Cakes. ACS Sustainable Chemistry and Engineering, 2020, 8, 3913-3921.   | 3.2 | 24        |
| 77 | Engineering of Laccase CueO for Improved Electron Transfer in Bioelectrocatalysis by Semi-Rational Design. Chemistry - A European Journal, 2020, 26, 4974-4979.                         | 1.7 | 11        |
| 78 | Engineering of Laccase CueO for Improved Electron Transfer in Bioelectrocatalysis by Semi-Rational Design. Chemistry - A European Journal, 2020, 26, 4884-4884.                         | 1.7 | 0         |
| 79 | Engineered P450 BM3 and cpADH5 coupled cascade reaction for $\hat{1}^2$ -oxo fatty acid methyl ester production in whole cells. Enzyme and Microbial Technology, 2020, 138, 109555.     | 1.6 | 8         |
| 80 | Loop engineering of aryl sulfotransferase B for improving catalytic performance in regioselective sulfation. Catalysis Science and Technology, 2020, 10, 2369-2377.                     | 2.1 | 6         |
| 81 | Preparative-Scale Production of Testosterone Metabolites by Human Liver Cytochrome P450 Enzyme 3A4. Advanced Synthesis and Catalysis, 2020, 362, 2725-2738.                             | 2.1 | 17        |
| 82 | How to Engineer Organic Solvent Resistant Enzymes: Insights from Combined Molecular Dynamics and Directed Evolution Study. ChemCatChem, 2020, 12, 4073-4083.                            | 1.8 | 45        |
| 83 | Insights on intermolecular FMN-heme domain interaction and the role of linker length in cytochrome P450cin fusion proteins. Biological Chemistry, 2020, 401, 1249-1255.                 | 1.2 | 3         |
| 84 | Anchor peptides as innovative adjuvants reduce rain wash-off, but do not impair photosynthetic activity or cause oxidative damage in apple leaves. Acta Horticulturae, 2020, , 175-180. | 0.1 | 2         |
| 85 | A Semi-Rationally Engineered Bacterial Pyrrolysyl-tRNA Synthetase Genetically Encodes Phenyl Azide Chemistry. Biotechnology Journal, 2019, 14, 1800125.                                 | 1.8 | 10        |
| 86 | Ternary Complex Formation and Photoactivation of a Photoenzyme Results in Altered Protein Dynamics. Journal of Physical Chemistry B, 2019, 123, 7372-7384.                              | 1.2 | 3         |
| 87 | Turning a Killing Mechanism into an Adhesion and Antifouling Advantage. Advanced Materials Interfaces, 2019, 6, 1900847.  | 1.9 | 16        |
| 88 | Membrane-Mimetic Dendrimerosomes Engulf Living Bacteria via Endocytosis. Nano Letters, 2019, 19, 5732-5738.   | 4.5 | 38        |
| 89 | Biocatalyst Immobilization by Anchor Peptides on an Additively Manufacturable Material. Organic Process Research and Development, 2019, 23, 1852-1859.                                  | 1.3 | 28        |
| 90 | Directed Evolution of P450 BM3 towards Functionalization of Aromatic O-Heterocycles. International Journal of Molecular Sciences, 2019, 20, 3353.                                       | 1.8 | 14        |

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|-----|---|-----|-----------|
| 91  | In Situ Monitoring of Membrane Protein Insertion into Block Copolymer Vesicle Membranes and Their Spreading via Potential-Assisted Approach. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29276-29289. | 4.0 | 13        |
| 92  | One-Pot Two-Step Chemoenzymatic Cascade for the Synthesis of a Bis-benzofuran Derivative. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6341-6346.   | 1.2 | 17        |
| 93  | Engineered phytases for emerging biotechnological applications beyond animal feeding. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6435-6448.   | 1.7 | 24        |
| 94  | Critical effect of proline on thermostability of endoglucanase II from <i>Penicillium verruculosum</i> . <i>Biochemical Engineering Journal</i> , 2019, 152, 107395.  | 1.8 | 25        |
| 95  | Rapid and Robust Coating Method to Render Polydimethylsiloxane Surfaces Cell-Adhesive. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41091-41099.   | 4.0 | 26        |
| 96  | A 96-multiplex capillary electrophoresis screening platform for product based evolution of P450 BM3. <i>Scientific Reports</i> , 2019, 9, 15479.  | 1.6 | 6         |
| 97  | Adhesive Peptides for Assembling Stainless Steel and Compound Loaded Micro-Containers. <i>Macromolecular Bioscience</i> , 2019, 19, e1900125.   | 2.1 | 17        |
| 98  | Consensus model of a cyanobacterial light-dependent protochlorophyllide oxidoreductase in its pigment-free apo-form and photoactive ternary complex. <i>Communications Biology</i> , 2019, 2, 351.                  | 2.0 | 9         |
| 99  | Selective Functionalization of Microgels with Enzymes by Sortagging. <i>Bioconjugate Chemistry</i> , 2019, 30, 2859-2869.   | 1.8 | 22        |
| 100 | A robust bacterial assay for high-throughput screening of human 4-hydroxyphenylpyruvate dioxygenase inhibitors. <i>Scientific Reports</i> , 2019, 9, 14145.   | 1.6 | 14        |
| 101 | Biohybrid catalysts for sequential one-pot reactions based on an engineered transmembrane protein. <i>Catalysis Science and Technology</i> , 2019, 9, 942-946.  | 2.1 | 12        |
| 102 | Directed Evolution of a Bacterial Laccase (CueO) for Enzymatic Biofuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4562-4565.   | 7.2 | 57        |
| 103 | Directed Evolution of a Bacterial Laccase (CueO) for Enzymatic Biofuel Cells. <i>Angewandte Chemie</i> , 2019, 131, 4610-4613.  | 1.6 | 7         |
| 104 | KnowVolution of a Fungal Laccase toward Alkaline pH. <i>ChemBioChem</i> , 2019, 20, 1458-1466.  | 1.3 | 40        |
| 105 | Anchor Peptide-Mediated Surface Immobilization of a Grubbs-Hoveyda-Type Catalyst for Ring-Opening Metathesis Polymerization. <i>Bioconjugate Chemistry</i> , 2019, 30, 714-720.                                     | 1.8 | 16        |
| 106 | How To Engineer Ionic Liquids Resistant Enzymes: Insights from Combined Molecular Dynamics and Directed Evolution Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11293-11302.                   | 3.2 | 38        |
| 107 | Depolymerization of Laccase-Oxidized Lignin in Aqueous Alkaline Solution at 37 °C. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11150-11156.   | 3.2 | 25        |
| 108 | Gerichtete Evolution ermöglicht das Design von maßgeschneiderten Proteinen zur nachhaltigen Produktion von Chemikalien und Pharmazeutika. <i>Angewandte Chemie</i> , 2019, 131, 36-41.                              | 1.6 | 19        |

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|-----|---|-----|-----------|
| 109 | Rational surface engineering of an arginine deiminase (an antitumor enzyme) for increased PEGylation efficiency. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2156-2166.  | 1.7 | 12        |
| 110 | Ultra-high-throughput screening system for directed polymer binding peptide evolution. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1856-1867.  | 1.7 | 26        |
| 111 | A thermostable flavin-based fluorescent protein from <i>Chloroflexus aggregans</i> : a framework for ultra-high resolution structural studies. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1793-1805. | 1.6 | 30        |
| 112 | Directed aryl sulfotransferase evolution toward improved sulfation stoichiometry on the example of catechols. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3761-3771.                                     | 1.7 | 7         |
| 113 | Chiral separation of L-arginine with whole cells through an engineered FhuA nanochannel. <i>Chemical Communications</i> , 2019, 55, 5431-5434.  | 2.2 | 17        |
| 114 | Disulfide Bond Engineering of an Endoglucanase from <i>Penicillium verruculosum</i> to Improve Its Thermostability. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1602.                                | 1.8 | 45        |
| 115 | A bifunctional dermaseptin-thaumatococcus dipeptide functionalizes the crop surface for sustainable pest management. <i>Green Chemistry</i> , 2019, 21, 2316-2325.  | 4.6 | 31        |
| 116 | Chemoenzymatic cascade for stilbene production from cinnamic acid catalyzed by ferulic acid decarboxylase and an artificial metatase. <i>Catalysis Science and Technology</i> , 2019, 9, 5572-5576.                     | 2.1 | 26        |
| 117 | Stimuli-Responsive Poly( <i>N</i> -Vinylactams) with Glycidyl Side Groups: Synthesis, Characterization, and Conjugation with Enzymes. <i>Biomacromolecules</i> , 2019, 20, 992-1006.                                    | 2.6 | 25        |
| 118 | Auf dem Weg zur Evolution artifizierender Metalloenzyme – aus einem Protein-Engineering-Blickwinkel. <i>Angewandte Chemie</i> , 2019, 131, 4500-4511.   | 1.6 | 7         |
| 119 | Towards the Evolution of Artificial Metalloenzymes – A Protein Engineer's Perspective. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4454-4464.  | 7.2 | 64        |
| 120 | Targeting microplastic particles in the void of diluted suspensions. <i>Environment International</i> , 2019, 123, 428-435.   | 4.8 | 72        |
| 121 | Directed Evolution Empowered Redesign of Natural Proteins for the Sustainable Production of Chemicals and Pharmaceuticals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 36-40.                          | 7.2 | 169       |
| 122 | High Throughput Screening Method for Engineering P450 Towards Terminal Hydroxylation of Fatty Acids. <i>Journal of Biobased Materials and Bioenergy</i> , 2019, 13, 79-85.  | 0.1 | 1         |
| 123 | Cavity Size Engineering of a $\beta$ -Barrel Protein Generates Efficient Biohybrid Catalysts for Olefin Metathesis. <i>ACS Catalysis</i> , 2018, 8, 3358-3364.  | 5.5 | 39        |
| 124 | Unraveling the effects of amino acid substitutions enhancing lipase resistance to an ionic liquid: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9600-9609.                        | 1.3 | 22        |
| 125 | Directed Evolution of Hyaluronic Acid Synthase from <i>Pasteurella multocida</i> towards High-Molecular-Weight Hyaluronic Acid. <i>ChemBioChem</i> , 2018, 19, 1414-1423.   | 1.3 | 34        |
| 126 | A Whole Cell <i>E. coli</i> Display Platform for Artificial Metalloenzymes: Poly(phenylacetylene) Production with a Rhodium-Nitrobindin Metalloprotein. <i>ACS Catalysis</i> , 2018, 8, 2611-2614.                      | 5.5 | 71        |



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|-----|--|-----|-----------|
| 127 | Sortase-Mediated High-Throughput Screening Platform for Directed Enzyme Evolution. ACS Combinatorial Science, 2018, 20, 203-211.   | 3.8 | 27        |
| 128 | A robust protocol for directed aryl sulfotransferase evolution toward the carbohydrate building block GlcNAc. Biotechnology and Bioengineering, 2018, 115, 1106-1115.  | 1.7 | 12        |
| 129 | A loop engineering strategy improves laccase lcc2 activity in ionic liquid and aqueous solution. Green Chemistry, 2018, 20, 2801-2812.   | 4.6 | 38        |
| 130 | A Comparative Reengineering Study of cpADH5 through Iterative and Simultaneous Multisite Saturation Mutagenesis. ChemBioChem, 2018, 19, 1563-1569.   | 1.3 | 11        |
| 131 | Loop engineering reveals the importance of active-site-decorating loops and gating residue in substrate affinity modulation of arginine deiminase (an anti-tumor enzyme). Biochemical and Biophysical Research Communications, 2018, 499, 233-238. | 1.0 | 22        |
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