

Christoffel Petrus Stephanus Badenhorst

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,124
citations

516710

16
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580821

25
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29
all docs

29
docs citations

29
times ranked

1185
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Engineering and evaluation of thermostable <i>Is</i> PETase variants for PET degradation. <i>Engineering in Life Sciences</i> , 2022, 22, 192-203. | 3.6 | 51 |
| 2 | Mechanism-Based Design of Efficient PET Hydrolases. <i>ACS Catalysis</i> , 2022, 12, 3382-3396. | 11.2 | 104 |
| 3 | Enzyme Kits to Facilitate the Integration of Biocatalysis into Organic Chemistry – First Aid for Synthetic Chemists. <i>ChemCatChem</i> , 2022, 14, . | 3.7 | 6 |
| 4 | Entdeckung und Design promiskuitiver Acyltransferase-Aktivität in Carboxylesterasen der Familie...VIII. <i>Angewandte Chemie</i> , 2021, 133, 2041-2045. | 2.0 | 0 |
| 5 | Discovery and Design of Family...VIII Carboxylesterases as Highly Efficient Acyltransferases. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2013-2017. | 13.8 | 25 |
| 6 | Engineering Regioselectivity of a P450 Monooxygenase Enables the Synthesis of Ursodeoxycholic Acid via γ -Hydroxylation of Lithocholic Acid. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 753-757. | 13.8 | 47 |
| 7 | Die gerichtete Evolution einer Halogenid-Methyltransferase erlaubt die biokatalytische Synthese diverser SAM-Analoga. <i>Angewandte Chemie</i> , 2021, 133, 1547-1551. | 2.0 | 16 |
| 8 | Directed Evolution of a Halide Methyltransferase Enables Biocatalytic Synthesis of Diverse SAM Analogs. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1524-1527. | 13.8 | 54 |
| 9 | Fluorimetric high-throughput screening method for polyester hydrolase activity using polyethylene terephthalate nanoparticles. <i>Methods in Enzymology</i> , 2021, 648, 253-270. | 1.0 | 18 |
| 10 | Recent trends in biocatalysis. <i>Chemical Society Reviews</i> , 2021, 50, 8003-8049. | 38.1 | 175 |
| 11 | Efficient Acylation of Sugars and Oligosaccharides in Aqueous Environment Using Engineered Acyltransferases. <i>ACS Catalysis</i> , 2021, 11, 2831-2836. | 11.2 | 12 |
| 12 | From Natural Methylation to Versatile Alkylations Using Halide Methyltransferases. <i>ChemBioChem</i> , 2021, 22, 2584-2590. | 2.6 | 15 |
| 13 | Promiscuous Dehalogenase Activity of the Epoxide Hydrolase CorEH from <i>Corynebacterium</i> sp. C12. <i>ACS Catalysis</i> , 2021, 11, 6113-6120. | 11.2 | 5 |
| 14 | Recent Insights and Future Perspectives on Promiscuous Hydrolases/Acyltransferases. <i>ACS Catalysis</i> , 2021, 11, 14906-14915. | 11.2 | 19 |
| 15 | An Ultrasensitive Fluorescence Assay for the Detection of Halides and Enzymatic Dehalogenation. <i>ChemCatChem</i> , 2020, 12, 2032-2039. | 3.7 | 9 |
| 16 | Protein Engineering for Enhanced Acyltransferase Activity, Substrate Scope, and Selectivity of the <i>Mycobacterium smegmatis</i> Acyltransferase MsAcT. <i>ACS Catalysis</i> , 2020, 10, 7552-7562. | 11.2 | 35 |
| 17 | Sequence-Based Prediction of Promiscuous Acyltransferase Activity in Hydrolases. <i>Angewandte Chemie</i> , 2020, 132, 11704-11709. | 2.0 | 13 |
| 18 | Sequence-Based Prediction of Promiscuous Acyltransferase Activity in Hydrolases. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11607-11612. | 13.8 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | The diverse origins of circulating cell-free DNA in the human body: a critical re-evaluation of the literature. <i>Biological Reviews</i> , 2018, 93, 1649-1683. | 10.4 | 202 |
| 20 | Getting Momentum: From Biocatalysis to Advanced Synthetic Biology. <i>Trends in Biochemical Sciences</i> , 2018, 43, 180-198. | 7.5 | 70 |
| 21 | A historical and evolutionary perspective on the biological significance of circulating DNA and extracellular vesicles. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 4355-4381. | 5.4 | 36 |
| 22 | Conservation of the coding regions of the glycine N-acyltransferase gene further suggests that glycine conjugation is an essential detoxification pathway. <i>Gene</i> , 2015, 571, 126-134. | 2.2 | 20 |
| 23 | A new perspective on the importance of glycine conjugation in the metabolism of aromatic acids. <i>Drug Metabolism Reviews</i> , 2014, 46, 343-361. | 3.6 | 60 |
| 24 | Characterisation of the influence of genetic variations on the enzyme activity of a recombinant human glycine N-acyltransferase. <i>Gene</i> , 2013, 515, 447-453. | 2.2 | 20 |
| 25 | Glycine conjugation: importance in metabolism, the role of glycine N-acyltransferase, and factors that influence interindividual variation. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2013, 9, 1139-1153. | 3.3 | 56 |
| 26 | Enzymatic Characterization and Elucidation of the Catalytic Mechanism of a Recombinant Bovine Glycine N-Acyltransferase. <i>Drug Metabolism and Disposition</i> , 2012, 40, 346-352. | 3.3 | 16 |