

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

142 papers	4,357 citations	33 h-index	61 g-index
160 ext. papers	5,276 ext. citations	6.8 avg, IF	6.1 L-index

#	Paper	IF	Citations
142	Bacterial exopolysaccharides: biosynthesis pathways and engineering strategies. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 496	5.7	272
141	Functional expression of a fungal laccase in <i>Saccharomyces cerevisiae</i> by directed evolution. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 987-95	4.8	238
140	Electrochemical synthesis of hydrogen peroxide from water and oxygen. <i>Nature Reviews Chemistry</i> , <b>2019</b> , 3, 442-458	34.6	235
139	Libraries of hybrid proteins from distantly related sequences. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 456-60	44.5	212
138	The genome of <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 and its use for the reconstruction of metabolic pathways involved in xanthan biosynthesis. <i>Journal of Biotechnology</i> , <b>2008</b> , 134, 33-45	3.7	202
137	Cell-free metabolic engineering: production of chemicals by minimized reaction cascades. <i>ChemSusChem</i> , <b>2012</b> , 5, 2165-72	8.3	184
136	Multienzyme Cascade Reactions Status and Recent Advances. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2385-2396	13.1	176
135	Selecting proteins with improved stability by a phage-based method. <i>Nature Biotechnology</i> , <b>1998</b> , 16, 955-60	44.5	176
134	In-vitro selection of highly stabilized protein variants with optimized surface. <i>Journal of Molecular Biology</i> , <b>2001</b> , 309, 717-26	6.5	90
133	Photobiocatalytic decarboxylation for olefin synthesis. <i>Chemical Communications</i> , <b>2015</b> , 51, 1918-21	5.8	85
132	Enzymatic cleavage of lignin EO-4 aryl ether bonds via net internal hydrogen transfer. <i>Green Chemistry</i> , <b>2013</b> , 15, 1373	10	84
131	Enhanced fed-batch fermentation of 2,3-butanediol by <i>Paenibacillus polymyxa</i> DSM 365. <i>Bioresource Technology</i> , <b>2012</b> , 124, 237-44	11	81
130	Scleroglucan: biosynthesis, production and application of a versatile hydrocolloid. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 91, 937-47	5.7	70
129	Solubilization of hemicellulose and lignin from wheat straw through microwave-assisted alkali treatment. <i>Industrial Crops and Products</i> , <b>2012</b> , 39, 198-203	5.9	69
128	Systematics and genetic variation in commercial shape <i>Kappaphycus</i> and shape <i>Eucheuma</i> (Solieriaceae, Rhodophyta). <i>Journal of Applied Phycology</i> , <b>2006</b> , 18, 643-651	3.2	66
127	A Modular Toolkit for Generating <i>Pichia pastoris</i> Secretion Libraries. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 1016-1025	5.1	55
126	Interactions contributing to the formation of a beta-hairpin-like structure in a small peptide. <i>Biochemistry</i> , <b>1996</b> , 35, 181-8	3.2	55

125	A water-forming NADH oxidase from <i>Lactobacillus pentosus</i> suitable for the regeneration of synthetic biomimetic cofactors. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 957	5.7	52
124	Recent Advances in the Direct Synthesis of Hydrogen Peroxide Using Chemical Catalysis: A Review. <i>Catalysts</i> , <b>2018</b> , 8, 379	4	52
123	Removal of monomer delignification products by laccase from <i>Trametes versicolor</i> . <i>Bioresource Technology</i> , <b>2012</b> , 104, 298-304	11	51
122	Enzymatic Reduction of Nicotinamide Biomimetic Cofactors Using an Engineered Glucose Dehydrogenase: Providing a Regeneration System for Artificial Cofactors. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5202-5208	12.1	50
121	Bacterial Glycosyltransferases: Challenges and Opportunities of a Highly Diverse Enzyme Class Toward Tailoring Natural Products. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 182	5.7	49
120	In vitro metabolic engineering for the production of $\alpha$ -ketoglutarate. <i>Metabolic Engineering</i> , <b>2017</b> , 40, 5-13	9.7	45
119	Biosynthesis "Debugged": Novel bioproduction strategies. <i>Engineering in Life Sciences</i> , <b>2013</b> , 13, 4-18	3.4	45
118	Fast carbohydrate analysis via liquid chromatography coupled with ultra violet and electrospray ionization ion trap detection in 96-well format. <i>Journal of Chromatography A</i> , <b>2014</b> , 1350, 44-50	4.5	45
117	Surface-exposed phenylalanines in the RNP1/RNP2 motif stabilize the cold-shock protein CspB from <i>Bacillus subtilis</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1998</b> , 30, 401-6	4.2	43
116	Identification of amino acid networks governing catalysis in the closed complex of class I terpene synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E958-67	11.5	41
115	Enzymatic Decarboxylation: An Emerging Reaction for Chemicals Production from Renewable Resources. <i>ChemCatChem</i> , <b>2014</b> , 6, 689-701	5.2	41
114	Methods to identify the unexplored diversity of microbial exopolysaccharides. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 565	5.7	41
113	Controlled production of polysaccharides-exploiting nutrient supply for levan and heteropolysaccharide formation in <i>Paenibacillus</i> sp. <i>Carbohydrate Polymers</i> , <b>2016</b> , 148, 326-34	10.3	40
112	Development of a lipase-mediated epoxidation process for monoterpenes in choline chloride-based deep eutectic solvents. <i>Green Chemistry</i> , <b>2017</b> , 19, 2576-2586	10	38
111	Sequence profile of the parallel beta helix in the pectate lyase superfamily. <i>Journal of Structural Biology</i> , <b>1998</b> , 122, 223-35	3.4	38
110	A comparison of genes involved in sphingane biosynthesis brought up to date. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 7719-33	5.7	37
109	Reaction Design for the Compartmented Combination of Heterogeneous and Enzyme Catalysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 6329-6334	13.1	33
108	High throughput exopolysaccharide screening platform: from strain cultivation to monosaccharide composition and carbohydrate fingerprinting in one day. <i>Carbohydrate Polymers</i> , <b>2015</b> , 122, 212-20	10.3	33

107	Epoxidation of Pinene catalyzed by methyltrioxorhenium(VII): Influence of additives, oxidants and solvents. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 340, 9-14		32
106	Tailor-made exopolysaccharides-CRISPR-Cas9 mediated genome editing in. <i>Synthetic Biology</i> , <b>2017</b> , 2, ysx007	3.3	30
105	Production of dodecanedioic acid via biotransformation of low cost plant-oil derivatives using <i>Candida tropicalis</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2017</b> , 44, 1491-1502	4.2	30
104	Encapsulation of living <i>E. coli</i> cells in hollow polymer microspheres of highly defined size. <i>Biomacromolecules</i> , <b>2013</b> , 14, 207-14	6.9	29
103	Novel CAD-like enzymes from <i>Escherichia coli</i> K-12 as additional tools in chemical production. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 5815-24	5.7	29
102	Enzymatic transformations involved in the biosynthesis of microbial exo-polysaccharides based on the assembly of repeat units. <i>ChemBioChem</i> , <b>2015</b> , 16, 1141-7	3.8	29
101	Circular dichroism of the parallel beta helical proteins pectate lyase C and E. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1995</b> , 23, 32-7	4.2	29
100	Electrochemical CO <sub>2</sub> reduction to formate on indium catalysts prepared by electrodeposition in deep eutectic solvents. <i>Electrochemistry Communications</i> , <b>2020</b> , 110, 106597	5.1	29
99	Transcriptome sequencing and comparative transcriptome analysis of the scleroglucan producer <i>Sclerotium rolfsii</i> . <i>BMC Genomics</i> , <b>2010</b> , 11, 329	4.5	28
98	Revealing the diversity of algal monosaccharides: Fast carbohydrate fingerprinting of microalgae using crude biomass and showcasing sugar distribution in <i>Chlorella vulgaris</i> by biomass fractionation. <i>Algal Research</i> , <b>2016</b> , 17, 227-235	5	28
97	Activated carbon as catalyst support: precursors, preparation, modification and characterization. <i>Beilstein Journal of Organic Chemistry</i> , <b>2020</b> , 16, 1188-1202	2.5	27
96	Improvement of thermostable aldehyde dehydrogenase by directed evolution for application in Synthetic Cascade Biomanufacturing. <i>Enzyme and Microbial Technology</i> , <b>2013</b> , 53, 307-14	3.8	27
95	Biomimetic cofactors and methods for their recycling. <i>Current Opinion in Chemical Biology</i> , <b>2019</b> , 49, 59-66	6.7	27
94	Biobased chiral semi-crystalline or amorphous high-performance polyamides and their scalable stereoselective synthesis. <i>Nature Communications</i> , <b>2020</b> , 11, 509	17.4	24
93	Effects of high-lignin-loading on thermal, mechanical, and morphological properties of bioplastic composites. <i>Composite Structures</i> , <b>2018</b> , 189, 349-356	5.3	23
92	Selective epoxidation of (+)-limonene employing methyltrioxorhenium as catalyst. <i>Journal of Molecular Catalysis A</i> , <b>2012</b> , 358, 159-165		22
91	Proside: a phage-based method for selecting thermostable proteins. <i>Methods in Molecular Biology</i> , <b>2003</b> , 230, 57-70	1.4	22
90	Metal Ions Play an Essential Catalytic Role in the Mechanism of Ketol-Acid Reductoisomerase. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 7427-36	4.8	22

89	New Bio-Polyamides from Terpenes: $\alpha$ -Pinene and (+)-3-Carene as Valuable Resources for Lactam Production. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1800903	4.8	21
88	Characterization of recombinantly expressed dihydroxy-acid dehydratase from <i>Sulfolobus solfataricus</i> -A key enzyme for the conversion of carbohydrates into chemicals. <i>Journal of Biotechnology</i> , <b>2015</b> , 211, 31-41	3.7	21
87	Lipase-catalyzed synthesis of sucrose monoester: Increased productivity by combining enzyme pretreatment and non-aqueous biphasic medium. <i>Journal of Biotechnology</i> , <b>2017</b> , 259, 182-190	3.7	20
86	Characterization of Biomimetic Cofactors According to Stability, Redox Potentials, and Enzymatic Conversion by NADH Oxidase from <i>Lactobacillus pentosus</i> . <i>ChemBioChem</i> , <b>2017</b> , 18, 1944-1949	3.8	20
85	In-depth rheological characterization of genetically modified xanthan-variants. <i>Carbohydrate Polymers</i> , <b>2019</b> , 213, 236-246	10.3	20
84	Optimization of the lipase mediated epoxidation of monoterpenes using the design of experiments Taguchi method. <i>Process Biochemistry</i> , <b>2016</b> , 51, 1479-1485	4.8	19
83	Mediated electron transfer with monooxygenases Insight in interactions between reduced mediators and the co-substrate oxygen. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2014</b> , 108, 51-58		19
82	Lipase-catalyzed interfacial polymerization of $\epsilon$ -pentadecalactone in aqueous biphasic medium: A mechanistic study. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2013</b> , 88, 69-76		18
81	Biocatalytic Synthesis of a Diketobornane as a Building Block for Bifunctional Camphor Derivatives. <i>ChemCatChem</i> , <b>2013</b> , 5, 3351-3357	5.2	17
80	Characterization of uronate dehydrogenases catalysing the initial step in an oxidative pathway. <i>Microbial Biotechnology</i> , <b>2015</b> , 8, 633-43	6.3	17
79	Bioconversion of Pyruvate to $\gamma$ -Butanol with Minimized Cofactor Utilization. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2016</b> , 4, 74	5.8	17
78	Colorimetric Determination of Sulfate via an Enzyme Cascade for High-Throughput Detection of Sulfatase Activity. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2526-2533	7.8	15
77	A one pot reaction cascade of in situ hydrogen peroxide production and lipase mediated in situ production of peracids for the epoxidation of monoterpenes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2015</b> , 114, 72-76		15
76	Rheological characterization of the exopolysaccharide Paenan in surfactant systems. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 719-726	10.3	15
75	Metabolic engineering for production of functional polysaccharides. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 66, 44-51	11.4	15
74	Integrated biorefinery concept for grass silage using a combination of adapted pulping methods for advanced saccharification and extraction of lignin. <i>Bioresource Technology</i> , <b>2016</b> , 216, 462-70	11	14
73	Toward one-pot lipase-catalyzed synthesis of poly( $\epsilon$ -caprolactone) particles in aqueous dispersion. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 113, 254-60	6	14
72	Enzymatic synthesis of amino sugar fatty acid esters. <i>European Journal of Lipid Science and Technology</i> , <b>2014</b> , 116, 423-428	3	14

71	Preparation of Supported Palladium Catalysts using Deep Eutectic Solvents. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 12467-12470	4.8	14
70	Lipase-mediated Epoxidation of the Cyclic Monoterpene Limonene to Limonene Oxide and Limonene Dioxide. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2012</b> , 67, 1056-1060	14	
69	Probing the adhesion properties of alginate hydrogels: a new approach towards the preparation of soft colloidal probes for direct force measurements. <i>Soft Matter</i> , <b>2017</b> , 13, 578-589	3.6	13
68	Characterization and comparison of Porphyridium sordidum and Porphyridium purpureum concerning growth characteristics and polysaccharide production. <i>Algal Research</i> , <b>2020</b> , 49, 101931	5	13
67	Improving the NADH-cofactor specificity of the highly active AdhZ3 and AdhZ2 from Escherichia coli K-12. <i>Journal of Biotechnology</i> , <b>2014</b> , 189, 157-65	3.7	13
66	Chemoenzymatic Synthesis of a Novel Borneol-Based Polyester. <i>ChemSusChem</i> , <b>2017</b> , 10, 3574-3580	8.3	12
65	Engineering of the 2,3-butanediol pathway of Paenibacillus polymyxa DSM 365. <i>Metabolic Engineering</i> , <b>2020</b> , 61, 381-388	9.7	12
64	Effects of glucose concentration on 1,18-cis-octadec-9-enedioic acid biotransformation efficiency and lipid body formation in Candida tropicalis. <i>Scientific Reports</i> , <b>2017</b> , 7, 13842	4.9	11
63	A Bifunctional UDP-Sugar 4-Epimerase Supports Biosynthesis of Multiple Cell Surface Polysaccharides in Sinorhizobium meliloti. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	11
62	A one-stage cultivation process for lipid- and carbohydrate-rich biomass of Scenedesmus obtusiusculus based on artificial and natural water sources. <i>Bioresource Technology</i> , <b>2016</b> , 218, 498-504	11	11
61	Optimization of a reduced enzymatic reaction cascade for the production of L-alanine. <i>Scientific Reports</i> , <b>2019</b> , 9, 11754	4.9	11
60	Sequence homology-independent protein recombination (SHIPREC). <i>Methods in Molecular Biology</i> , <b>2003</b> , 231, 153-63	1.4	11
59	ChiBio: An Integrated Bio-refinery for Processing Chitin-Rich Bio-waste to Specialty Chemicals. <i>Grand Challenges in Biology and Biotechnology</i> , <b>2018</b> , 555-578	2.4	11
58	Enabling the Direct Enzymatic Dehydration of d-Glycerate to Pyruvate as the Key Step in Synthetic Enzyme Cascades Used in the Cell-Free Production of Fine Chemicals. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3110-3118	13.1	10
57	Thermostabilization of the uronate dehydrogenase from Agrobacterium tumefaciens by semi-rational design. <i>AMB Express</i> , <b>2017</b> , 7, 103	4.1	10
56	Refolding of a thermostable glyceraldehyde dehydrogenase for application in synthetic cascade biomanufacturing. <i>PLoS ONE</i> , <b>2013</b> , 8, e70592	3.7	10
55	Analysis of lignocellulose derived phenolic monomers by headspace solid-phase microextraction and gas chromatography. <i>Journal of Chromatography A</i> , <b>2013</b> , 1307, 144-57	4.5	9
54	Functional Expression of a Fungal Laccase in Saccharomyces cerevisiae by Directed Evolution. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 5037-5037	4.8	9

53	Synthetic Methylophony in Yeasts: Towards a Circular Bioeconomy. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 348-358	15.1	9
52	Structure-Guided Engineering of $\beta$ -Keto Acid Decarboxylase for the Production of Higher Alcohols at Elevated Temperature. <i>ChemSusChem</i> , <b>2018</b> , 11, 3335-3344	8.3	9
51	Development of semi-continuous chemo-enzymatic terpene epoxidation: combination of anthraquinone autooxidation and the lipase-mediated epoxidation process. <i>Reaction Chemistry and Engineering</i> , <b>2017</b> , 2, 885-895	4.9	8
50	Biosynthesis of poly-3-hydroxybutyrate from grass silage by a two-stage fermentation process based on an integrated biorefinery concept. <i>Bioresource Technology</i> , <b>2018</b> , 269, 237-245	11	8
49	Overall Nutritional and Sensory Profile of Different Species of Australian Wattle Seeds ( spp.): Potential Food Sources in the Arid Semi-Arid Regions. <i>Foods</i> , <b>2019</b> , 8,	4.9	8
48	Automated Modular High Throughput Exopolysaccharide Screening Platform Coupled with Highly Sensitive Carbohydrate Fingerprint Analysis. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	7
47	Deacidification of grass silage press juice by continuous production of acetoin from its lactate via an immobilized enzymatic reaction cascade. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1084-1092	11	7
46	Molecular cloning and functional characterization of a two highly stereoselective borneol dehydrogenases from <i>Salvia officinalis</i> L. <i>Phytochemistry</i> , <b>2020</b> , 172, 112227	4	7
45	Bioelectrocatalytic Cofactor Regeneration Coupled to CO Fixation in a Redox-Active Hydrogel for Stereoselective C-C Bond Formation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21056-21061	16.4	7
44	Quantitative assay of $\alpha$ (1,3)- $\alpha$ (1,6)-glucans from fermentation broth using aniline blue. <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 57-64	10.3	6
43	Molecular Dynamics Analysis of a Rationally Designed Aldehyde Dehydrogenase Gives Insights into Improved Activity for the Non-Native Cofactor NAD. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 920-929	5.7	6
42	Identification and characterization of two new 5-keto-4-deoxy-D-Glucarate Dehydratases/Decarboxylases. <i>BMC Biotechnology</i> , <b>2016</b> , 16, 80	3.5	6
41	carba Nicotinamide Adenine Dinucleotide Phosphate: Robust Cofactor for Redox Biocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14701-14706	16.4	6
40	Production of Propene from n-Butanol: A Three-Step Cascade Utilizing the Cytochrome P450 Fatty Acid Decarboxylase OleT. <i>ChemBioChem</i> , <b>2020</b> , 21, 3273-3281	3.8	5
39	Screening of c-di-GMP-Regulated Exopolysaccharides in Host Interacting Bacteria. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1734, 263-275	1.4	5
38	Substrate scope of a dehydrogenase from <i>Sphingomonas</i> species A1 and its potential application in the synthesis of rare sugars and sugar derivatives. <i>Microbial Biotechnology</i> , <b>2018</b> , 11, 747-758	6.3	5
37	Mechanical and Thermal Properties of Mixed-Tacticity Polyhydroxybutyrates and Their Association with Iso- and Atactic Chain Segment Length Distributions. <i>Macromolecules</i> , <b>2019</b> , 52, 5407-5418	5.5	5
36	Novel Prokaryotic CRISPR-Cas12a-Based Tool for Programmable Transcriptional Activation and Repression. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 3353-3363	5.7	5



35	Structures of Mixed-Tacticity Polyhydroxybutyrates. <i>Macromolecules</i> , <b>2018</b> , 51, 5001-5010	5.5	5
34	Optimization of growth and EPS production in two <i>Porphyridum</i> strains. <i>Bioresource Technology Reports</i> , <b>2020</b> , 11, 100486	4.1	4
33	Biosynthese und Genomik mikrobieller Polysaccharide. <i>BioSpektrum</i> , <b>2014</b> , 20, 288-290	0.1	4
32	Development of an Improved Peroxidase-Based High-Throughput Screening for the Optimization of D-Glycerate Dehydratase Activity. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	4
31	Rheology of sphingans in EPS-surfactant systems. <i>Carbohydrate Polymers</i> , <b>2020</b> , 248, 116778	10.3	4
30	To beat the heat - engineering of the most thermostable pyruvate decarboxylase to date.. <i>RSC Advances</i> , <b>2019</b> , 9, 29743-29746	3.7	4
29	Rheological characterization of <i>Porphyridium sordidum</i> and <i>Porphyridium purpureum</i> exopolysaccharides. <i>Carbohydrate Polymers</i> , <b>2021</b> , 253, 117237	10.3	4
28	Dataset on the structural characterization of organosolv lignin obtained from ensiled grass and load-dependent molecular weight changes during thermoplastic processing. <i>Data in Brief</i> , <b>2018</b> , 17, 647-652	1.2	3
27	Nucleic and Protein Extraction Methods for Fungal Exopolysaccharide Producers <b>2013</b> , 427-434		3
26	Selection for soluble proteins via fusion with chloramphenicol acetyltransferase. <i>Methods in Molecular Biology</i> , <b>2003</b> , 230, 45-55	1.4	3
25	Structural elucidation of the fucose containing polysaccharide of <i>Paenibacillus polymyxa</i> DSM 365.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 278, 118951	10.3	3
24	A Structural View on the Stereospecificity of Plant Borneol-Type Dehydrogenases. <i>ChemCatChem</i> , <b>2021</b> , 13, 2262-2277	5.2	3
23	Simple Plug-In Synthetic Step for the Synthesis of (-)-Camphor from Renewable Starting Materials. <i>ChemBioChem</i> , <b>2021</b> , 22, 2951-2956	3.8	3
22	Bioelektrokatalytische Cofaktor-Regeneration und CO <sub>2</sub> -Fixierung in einem redoxaktiven Hydrogel durch stereoselektive C-C-Bindungsknüpfung. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21224-21230	3.6	3
21	Converging conversion Using promiscuous biocatalysts for the cell-free synthesis of chemicals from heterogeneous biomass. <i>Green Chemistry</i> , <b>2021</b> , 23, 3656-3663	10	3
20	Fermentative Production of Microbial Exopolysaccharides <b>2019</b> , 145-166		2
19	Draft Genome Sequence of <i>Kozakia baliensis</i> SR-745, the First Sequenced <i>Kozakia</i> Strain from the Family <i>Acetobacteraceae</i> . <i>Genome Announcements</i> , <b>2014</b> , 2,		2
18	Development of a Cofactor Balanced, Multi Enzymatic Cascade Reaction for the Simultaneous Production of L-Alanine and L-Serine from 2-Keto-3-deoxy-gluconate. <i>Catalysts</i> , <b>2021</b> , 11, 31	4	2



17	Characterization of highly active 2-keto-3-deoxy-L-arabinonate and 2-keto-3-deoxy-D-xylonate dehydratases in terms of the biotransformation of hemicellulose sugars to chemicals. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 7023-7035	5.7	2
16	Sustainable Chemistry - An Interdisciplinary Matrix Approach. <i>ChemSusChem</i> , <b>2021</b> , 14, 251-265	8.3	2
15	Hot Flows: Evolving an Archaeal Glucose Dehydrogenase for Ultrastable Carba-NADP+ Using Microfluidics at Elevated Temperatures. <i>ACS Catalysis</i> , <b>2022</b> , 12, 1841-1846	13.1	1
14	Systematic optimization of exopolysaccharide production by <i>Gluconacetobacter</i> sp. and use of (crude) glycerol as carbon source. <i>Carbohydrate Polymers</i> , <b>2022</b> , 276, 118769	10.3	1
13	Anodic production of hydrogen peroxide using commercial carbon materials. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 120848	21.8	1
12	Pyrolysis of Deep Eutectic Solvents for the Preparation of Supported Copper Electrocatalysts. <i>ChemistrySelect</i> , <b>2020</b> , 5, 11714-11720	1.8	1
11	Engineering of a borneol dehydrogenase from <i>P. putida</i> for the enzymatic resolution of camphor. <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 3159-3167	5.7	1
10	Enhanced C2 and C3 Product Selectivity in Electrochemical CO2 Reduction on Carbon-Doped Copper Oxide Catalysts Prepared by Deep Eutectic Solvent Calcination. <i>Catalysts</i> , <b>2021</b> , 11, 542	4	1
9	Design of a synthetic enzyme cascade for the in vitro fixation of a C1 carbon source to a functional C4 sugar. <i>Green Chemistry</i> , <b>2021</b> , 23, 6583-6590	10	1
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7	carba-Nicotinamid-Adenin-Dinukleotid-Phosphat: Robuster Cofaktor für die Redox-Biokatalyse. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14822-14828	3.6	0
6	Design of enzymatic cascade reactors through multi-objective dynamic optimization. <i>Biochemical Engineering Journal</i> , <b>2022</b> , 181, 108384	4.2	0
5	Towards a cyanobacterial biorefinery: Carbohydrate fingerprint, biocomposition and enzymatic hydrolysis of Nostoc biomass. <i>Algal Research</i> , <b>2022</b> , 65, 102744	5	0
4	Crystallization behaviour of glyceraldehyde dehydrogenase from <i>Thermoplasma acidophilum</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2015</b> , 71, 1475-80	1.1	
3	Biochemie 2009. <i>Nachrichten Aus Der Chemie</i> , <b>2010</b> , 58, 300-313	0.1	
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