

Doris Ribitsch

List of Publications by Year in descending order

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67
papers

3,063
citations

172457

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168389

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73
all docs

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docs citations

73
times ranked

2262
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic Surface Hydrolysis of PET: Effect of Structural Diversity on Kinetic Properties of Cutinases from <i>Thermobifida</i> . <i>Macromolecules</i> , 2011, 44, 4632-4640.	4.8	298
2	Biochar surface functional groups as affected by biomass feedstock, biochar composition and pyrolysis temperature. <i>Carbon Resources Conversion</i> , 2021, 4, 36-46.	5.9	155
3	Enhanced Cutinase-Catalyzed Hydrolysis of Polyethylene Terephthalate by Covalent Fusion to Hydrophobins. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3586-3592.	3.1	149
4	A New Esterase from <i>Thermobifida halotolerans</i> Hydrolyses Polyethylene Terephthalate (PET) and Polylactic Acid (PLA). <i>Polymers</i> , 2012, 4, 617-629.	4.5	146
5	Hydrolysis of polyethyleneterephthalate by <i>p</i> -nitrobenzylesterase from <i>Bacillus subtilis</i> . <i>Biotechnology Progress</i> , 2011, 27, 951-960.	2.6	138
6	Fusion of Binding Domains to <i>Thermobifida cellulosilytica</i> Cutinase to Tune Sorption Characteristics and Enhancing PET Hydrolysis. <i>Biomacromolecules</i> , 2013, 14, 1769-1776.	5.4	137
7	Characterization of a new cutinase from <i>Thermobifida alba</i> for PET-surface hydrolysis. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 2-9.	2.0	125
8	Surface engineering of a cutinase from <i>Thermobifida cellulosilytica</i> for improved polyester hydrolysis. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2581-2590.	3.3	118
9	The Closure of the Cycle: Enzymatic Synthesis and Functionalization of Bio-Based Polyesters. <i>Trends in Biotechnology</i> , 2016, 34, 316-328.	9.3	107
10	Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications. <i>Biotechnology Advances</i> , 2020, 40, 107520.	11.7	97
11	Enzymatic Hydrolysis of Polyester Thin Films at the Nanoscale: Effects of Polyester Structure and Enzyme Active-Site Accessibility. <i>Environmental Science & Technology</i> , 2017, 51, 7476-7485.	10.0	89
12	Two Novel Class II Hydrophobins from <i>Trichoderma</i> spp. Stimulate Enzymatic Hydrolysis of Poly(Ethylene Terephthalate) when Expressed as Fusion Proteins. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4230-4238.	3.1	86
13	Improving enzymatic polyurethane hydrolysis by tuning enzyme sorption. <i>Polymer Degradation and Stability</i> , 2016, 132, 69-77.	5.8	85
14	PpEst is a novel PBAT degrading polyesterase identified by proteomic screening of <i>Pseudomonas pseudoalcaligenes</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2291-2303.	3.6	82
15	Characterization of a poly(butylene adipate-co-terephthalate)-hydrolyzing lipase from <i>Pelosinus fermentans</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1753-1764.	3.6	75
16	Hydrolysis of synthetic polyesters by <i>Clostridium botulinum</i> esterases. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1024-1034.	3.3	65
17	Enzymatic Degradation of Aromatic and Aliphatic Polyesters by <i>P. pastoris</i> Expressed Cutinase 1 from <i>Thermobifida cellulosilytica</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 938.	3.5	62
18	Substrate specificities of cutinases on aliphatic and aromatic polyesters and on their model substrates. <i>New Biotechnology</i> , 2016, 33, 295-304.	4.4	56

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19	Small cause, large effect: Structural characterization of cutinases from <i>Thermobifida cellulositica</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2481-2488.	3.3	56
20	Equalizer technology – Equal rights for disparate beads. <i>Proteomics</i> , 2010, 10, 2089-2098.	2.2	54
21	Surface engineering of polyester-degrading enzymes to improve efficiency and tune specificity. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3551-3559.	3.6	51
22	A novel aryl acylamidase from <i>Nocardia farcinica</i> hydrolyses polyamide. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1003-1011.	3.3	46
23	Complete switch from α -2,3- to α -2,6-regioselectivity in <i>Pasteurella dagmatis</i> α -galactoside sialyltransferase by active-site redesign. <i>Chemical Communications</i> , 2015, 51, 3083-3086.	4.1	41
24	An Esterase from Anaerobic <i>Clostridium hathewayi</i> Can Hydrolyze Aliphatic – Aromatic Polyesters. <i>Environmental Science & Technology</i> , 2016, 50, 2899-2907.	10.0	39
25	Extracellular serine proteases from <i>Stenotrophomonas maltophilia</i> : Screening, isolation and heterologous expression in <i>E. coli</i> . <i>Journal of Biotechnology</i> , 2012, 157, 140-147.	3.8	37
26	Natural Deep Eutectic Solvents as Multifunctional Media for the Valorization of Agricultural Wastes. <i>ChemSusChem</i> , 2019, 12, 1310-1315.	6.8	37
27	Two-step enzymatic functionalisation of polyamide with phenolics. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 79, 54-60.	1.8	35
28	Hydrolysis of Ionic Phthalic Acid Based Polyesters by Wastewater Microorganisms and Their Enzymes. <i>Environmental Science & Technology</i> , 2017, 51, 4596-4605.	10.0	35
29	Characterization of a multifunctional α -2,3-sialyltransferase from <i>Pasteurella dagmatis</i> . <i>Glycobiology</i> , 2013, 23, 1293-1304.	2.5	29
30	Polyol Structure Influences Enzymatic Hydrolysis of Bio-based 2,5-Furandicarboxylic Acid (FDCA) Polyesters. <i>Biotechnology Journal</i> , 2017, 12, 1600741.	3.5	29
31	Synergistic effect of mutagenesis and truncation to improve a polyesterase from <i>Clostridium botulinum</i> for polyester hydrolysis. <i>Scientific Reports</i> , 2018, 8, 3745.	3.3	27
32	Polyester hydrolysis is enhanced by a truncated esterase: Less is more. <i>Biotechnology Journal</i> , 2017, 12, .	3.5	26
33	Natural Deep Eutectic Solvents as Performance Additives for Peroxygenase Catalysis. <i>ChemCatChem</i> , 2020, 12, 989-994.	3.7	26
34	Polyphenol oxidases exhibit promiscuous proteolytic activity. <i>Communications Chemistry</i> , 2020, 3, .	4.5	25
35	C-terminal truncation of a metagenome-derived detergent protease for effective expression in <i>E. coli</i> . <i>Journal of Biotechnology</i> , 2010, 150, 408-416.	3.8	24
36	Enantioselective Sulfoxidation of Thioanisole by Cascading a Choline Oxidase and a Peroxygenase in the Presence of Natural Deep Eutectic Solvents. <i>ChemPlusChem</i> , 2020, 85, 254-257.	2.8	22

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37	Biomimetic Approach to Enhance Enzymatic Hydrolysis of the Synthetic Polyester Poly(1,4-butylene) Tj ETQq1 1 0.784314 rgBT /Over	5.4	21
38	High Throughput Screening for New Fungal Polyester Hydrolyzing Enzymes. <i>Frontiers in Microbiology</i> , 2020, 11, 554.	3.5	20
39	Together Is Better: The Rumen Microbial Community as Biological Toolbox for Degradation of Synthetic Polyesters. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, .	4.1	19
40	Identification and Application of Enantiocomplementary Lactamases for Vince Lactam Derivatives. <i>ChemCatChem</i> , 2014, 6, 2517-2521.	3.7	18
41	Mechanistic study of CMP-Neu5Ac hydrolysis by Î±2,3-sialyltransferase from <i>Pasteurella dagmatis</i> . <i>FEBS Letters</i> , 2014, 588, 2978-2984.	2.8	17
42	Enzymes as Enhancers for the Biodegradation of Synthetic Polymers in Wastewater. <i>ChemBioChem</i> , 2018, 19, 317-325.	2.6	17
43	Heterologous expression and characterization of Choline Oxidase from the soil bacterium <i>Arthrobacter nicotianae</i> . <i>Applied Microbiology and Biotechnology</i> , 2009, 81, 875-886.	3.6	16
44	Polyol Structure and Ionic Moieties Influence the Hydrolytic Stability and Enzymatic Hydrolysis of Bio-Based 2,5-Furandicarboxylic Acid (FDCA) Copolyesters. <i>Polymers</i> , 2017, 9, 403.	4.5	16
45	Engineering of choline oxidase from <i>Arthrobacter nicotianae</i> for potential use as biological bleach in detergents. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1743-1752.	3.6	15
46	Switched reaction specificity in polyesterases towards amide bond hydrolysis by enzyme engineering. <i>RSC Advances</i> , 2019, 9, 36217-36226.	3.6	15
47	Structureâ€function analysis of two closely related cutinases from <i>Thermobifida cellulolytica</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 470-481.	3.3	15
48	Engineering of the zinc-binding domain of an esterase from <i>Clostridium botulinum</i> towards increased activity on polyesters. <i>Catalysis Science and Technology</i> , 2017, 7, 1440-1447.	4.1	14
49	Shotgun proteomics reveals putative polyesterases in the secretome of the rock-inhabiting fungus <i>Knufia chersonesos</i> . <i>Scientific Reports</i> , 2020, 10, 9770.	3.3	14
50	A new arylesterase from <i>Pseudomonas pseudoalcaligenes</i> can hydrolyze ionic phthalic polyesters. <i>Journal of Biotechnology</i> , 2017, 257, 70-77.	3.8	13
51	Oxidation of Various Kraft Lignins with a Bacterial Laccase Enzyme. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13161.	4.1	13
52	Comparison of a fungal and a bacterial laccase for lignosulfonate polymerization. <i>Process Biochemistry</i> , 2021, 109, 207-213.	3.7	12
53	Comparison of Carbonic Anhydrases for CO ₂ Sequestration. <i>International Journal of Molecular Sciences</i> , 2022, 23, 957.	4.1	12
54	Data on synthesis of oligomeric and polymeric poly(butylene adipate-co-butylene terephthalate) model substrates for the investigation of enzymatic hydrolysis. <i>Data in Brief</i> , 2016, 7, 291-298.	1.0	11

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55	A Fungal Ascorbate Oxidase with Unexpected Laccase Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5754.	4.1	11
56	High-quality production of human α -2,6-sialyltransferase in <i>Pichia pastoris</i> requires control over N-terminal truncations by host-inherent protease activities. <i>Microbial Cell Factories</i> , 2014, 13, 138.	4.0	9
57	All-in-one assay for α -D-galactoside sialyltransferases: Quantification of productive turnover, error hydrolysis, and site selectivity. <i>Analytical Biochemistry</i> , 2015, 483, 47-53.	2.4	9
58	Combining expression and process engineering for high-quality production of human sialyltransferase in <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2016, 235, 54-60.	3.8	9
59	Two N-terminally truncated variants of human α -D-galactoside α -2,6 sialyltransferase I with distinct properties for in vitro protein glycosylation. <i>Glycobiology</i> , 2016, 26, 1097-1106.	2.5	7
60	Conazole fungicides epoxiconazole and tebuconazole in biochar amended soils: Degradation and bioaccumulation in earthworms. <i>Chemosphere</i> , 2021, 274, 129700.	8.2	6
61	A Simple and Straightforward Method for Activity Measurement of Carbonic Anhydrases. <i>Catalysts</i> , 2021, 11, 819.	3.5	6
62	Tuning of adsorption of enzymes to polymer. <i>Methods in Enzymology</i> , 2021, 648, 293-315.	1.0	5
63	Surface functionalization of polyester. <i>Methods in Enzymology</i> , 2019, 627, 339-360.	1.0	3
64	Residue-Specific Incorporation of the Non-Canonical Amino Acid Norleucine Improves Lipase Activity on Synthetic Polyesters. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 769830.	4.1	3
65	Effect of Binding Modules Fused to Cutinase on the Enzymatic Synthesis of Polyesters. <i>Catalysts</i> , 2022, 12, 303.	3.5	3
66	Effects of biochar on the fate of conazole fungicides in soils and their bioavailability to earthworms and plants. <i>Environmental Science and Pollution Research</i> , 2022, 29, 23323-23337.	5.3	2
67	Green polymer processing with enzymes. <i>New Biotechnology</i> , 2014, 31, S31.	4.4	0