Georg M Guebitz

List of Publications by Year
in descending order

389 papers	18,677 citations	10986 71 h-index	23533 111 g-index
406 all docs	406 docs citations	406 times ranked	14984 citing authors

#	Article	IF	Citations
1	Structureâ€function analysis of two closely related cutinases from <i>Thermobifida cellulosilytica</i>. Biotechnology and Bioengineering, 2022, 119, 470-481.	3.3	15
2	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
3	Comparison of Carbonic Anhydrases for CO2 Sequestration. International Journal of Molecular Sciences, 2022, 23, 957.	4.1	12
4	Enzymatic Conversion of Lignosulfonate into Wood Adhesives: A Next Step towards Fully Biobased Composite Materials. Polymers, 2022, 14, 259.	4.5	8
5	Cutinase-Catalyzed Polyester-Polyurethane Degradation: Elucidation of the Hydrolysis Mechanism. Polymers, 2022, 14, 411.	4.5	18
6	Mechanistic investigation of the effect of endoglucanases related to pulp refining. Cellulose, 2022, 29, 2579-2598.	4.9	8
7	Effect of Binding Modules Fused to Cutinase on the Enzymatic Synthesis of Polyesters. Catalysts, 2022, 12, 303.	3.5	3
8	Bioleaching and Selective Precipitation for Metal Recovery from Basic Oxygen Furnace Slag. Processes, 2022, 10, 576.	2.8	7
9	Optimized biogenic sulfuric acid production and application in the treatment of waste incineration residues. Waste Management, 2022, 144, 182-190.	7.4	6
10	Enzymatic synthesis of wet-resistant lignosulfonate-starch adhesives. New Biotechnology, 2022, 69, 49-54.	4.4	7
11	Characterisation of enzyme catalysed hydrolysation stage of poly(lactic acid) fibre surface by nanoscale thermal analysis: New mechanistic insight. Materials and Design, 2022, 219, 110810.	7.0	3
12	Towards a better understanding of synergistic enzyme effects during refining of cellulose fibers. Carbohydrate Polymer Technologies and Applications, 2022, 4, 100223.	2.6	5
13	Chitosan: Sources, Processing and Modification Techniques. Gels, 2022, 8, 393.	4.5	91
14	Bioleaching/enzyme-based recycling of aluminium and polyethylene from beverage cartons packaging waste. Resources, Conservation and Recycling, 2022, 185, 106444.	10.8	11
15	Role of Surface Enhancement in the Enzymatic Cross-Linking of Lignosulfonate Using Alternative Downstream Techniques. ACS Omega, 2022, 7, 23749-23758.	3.5	3
16	On the effective application of star-shaped polycaprolactones with different end functionalities to improve the properties of polylactic acid blend films. European Polymer Journal, 2022, 176, 111402.	5.4	5
17	Chemically modified inulin for intestinal drug delivery â€" A new dual bioactivity concept for inflammatory bowel disease treatment. Carbohydrate Polymers, 2021, 252, 117091.	10.2	6
18	A new bioleaching strategy for the selective recovery of aluminum from multi-layer beverage cans. Waste Management, 2021, 120, 16-24.	7.4	17

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19	Tuning of adsorption of enzymes to polymer. Methods in Enzymology, 2021, 648, 293-315.	1.0	5
20	Delivery of Biomolecules Using Chitosan Wound Dressings. Advances in Polymer Science, 2021, , 447-467.	0.8	2
21	Functionalization Strategies and Fabrication of Solvent-Cast PLLA for Bioresorbable Stents. Applied Sciences (Switzerland), 2021, 11, 1478.	2.5	13
22	Leachability of metals from waste incineration residues by iron- and sulfur-oxidizing bacteria. Journal of Environmental Management, 2021, 280, 111734.	7.8	18
23	Cultivation of heterotrophic algae on paper waste material and digestate. Algal Research, 2021, 54, 102193.	4.6	5
24	Biotechnological production and high potential of furan-based renewable monomers and polymers. Biotechnology Advances, 2021, 48, 107707.	11.7	42
25	Impact of Carbon Felt Electrode Pretreatment on Anodic Biofilm Composition in Microbial Electrolysis Cells. Biosensors, 2021, 11, 170.	4.7	12
26	Biorefining: the role of endoglucanases in refining of cellulose fibers. Cellulose, 2021, 28, 7633-7650.	4.9	9
27	Enzyme Catalyzed Copolymerization of Lignosulfonates for Hydrophobic Coatings. Frontiers in Bioengineering and Biotechnology, 2021, 9, 697310.	4.1	6
28	Together Is Better: The Rumen Microbial Community as Biological Toolbox for Degradation of Synthetic Polyesters. Frontiers in Bioengineering and Biotechnology, 2021, 9, .	4.1	19
29	Biocatalyzed Synthesis of Flavor Esters and Polyesters: A Design of Experiments (DoE) Approach. International Journal of Molecular Sciences, 2021, 22, 8493.	4.1	7
30	Comparison of a fungal and a bacterial laccase for lignosulfonate polymerization. Process Biochemistry, 2021, 109, 207-213.	3.7	12
31	Unveiling the Enzymatic Degradation Process of Biobased Thiophene Polyesters. Frontiers in Chemistry, 2021, 9, 771612.	3.6	3
32	Oxidation of Various Kraft Lignins with a Bacterial Laccase Enzyme. International Journal of Molecular Sciences, 2021, 22, 13161.	4.1	13
33	Polymeric microspheres as support to co-immobilized Agaricus bisporus and Trametes versicolor laccases and their application in diazinon degradation. Arabian Journal of Chemistry, 2020, 13, 4218-4227.	4.9	24
34	Stirred-tank and heap-bioleaching of shredder-light-fractions (SLF) by acidophilic bacteria. Hydrometallurgy, 2020, 193, 105315.	4.3	11
35	Valorisation of slaughter house and deinking paper waste streams for the production of enzyme by Trichoderma reesei. Journal of Cleaner Production, 2020, 275, 122882.	9.3	6
36	Cultivation of heterotrophic algae on enzymatically hydrolyzed municipal food waste. Algal Research, 2020, 50, 101993.	4.6	19

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37	Controlled enzymatic hydrolysis and synthesis of lignin cross-linked chitosan functional hydrogels. International Journal of Biological Macromolecules, 2020, 161, 1440-1446.	7.5	16
38	A Fungal Ascorbate Oxidase with Unexpected Laccase Activity. International Journal of Molecular Sciences, 2020, 21, 5754.	4.1	11
39	High Throughput Screening for New Fungal Polyester Hydrolyzing Enzymes. Frontiers in Microbiology, 2020, 11, 554.	3.5	20
40	Harnessing the Power of Enzymes for Tailoring and Valorizing Lignin. Trends in Biotechnology, 2020, 38, 1215-1231.	9.3	36
41	Enzymatic synthesis and tailoring lignin properties: A systematic study on the effects of plasticizers. Polymer, 2020, 202, 122725.	3.8	12
42	Enhanced methane producing microbial electrolysis cells for wastewater treatment using poly(neutral red) and chitosan modified electrodes. Sustainable Energy and Fuels, 2020, 4, 4238-4248.	4.9	15
43	Polyphenol oxidases exhibit promiscuous proteolytic activity. Communications Chemistry, 2020, 3, .	4.5	25
44	Effects of enzymes on the refining of different pulps. Journal of Biotechnology, 2020, 320, 1-10.	3.8	8
45	Shotgun proteomics reveals putative polyesterases in the secretome of the rock-inhabiting fungus Knufia chersonesos. Scientific Reports, 2020, 10, 9770.	3.3	14
46	Lignin-Based Pesticide Delivery System. ACS Omega, 2020, 5, 4322-4329.	3.5	20
47	Enzymatic synthesis of biobased polyesters utilizing aromatic diols as the rigid component. European Polymer Journal, 2020, 130, 109680.	5.4	24
48	Thermal Upgrade of Enzymatically Synthesized Aliphatic and Aromatic Oligoesters. Materials, 2020, 13, 368.	2.9	14
49	pH-responsive materials for optical monitoring of wound status. Sensors and Actuators B: Chemical, 2019, 301, 126966.	7.8	28
50	Bioprocessing of polyesters. , 2019, , 37-48.		1
51	Glutathione from recovered glucose as ingredient in antioxidant nanocapsules for triggered flavor delivery. Journal of Materials Chemistry B, 2019, 7, 3958-3969.	5.8	5
52	Surface functionalization of polyester. Methods in Enzymology, 2019, 627, 339-360.	1.0	3
53	Increased Flame Retardancy of Enzymatic Functionalized PET and Nylon Fabrics via DNA Immobilization. Frontiers in Chemistry, 2019, 7, 685.	3.6	9
54	Changing the Molecular Structure of Kraft Ligninsâ€"Ozone Treatment at Alkaline Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 15163-15172.	6.7	11

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55	Environmentally friendly covalent coupling of proteins onto oxidized cellulosic materials. New Journal of Chemistry, 2019, 43, 14536-14545.	2.8	2
56	Enzymatic synthesis of highly flexible lignin cross-linked succinyl-chitosan hydrogels reinforced with reed cellulose fibres. European Polymer Journal, 2019, 120, 109201.	5.4	14
57	Immobilization of <i>Myceliophthora thermophila</i> laccase on poly(glycidyl methacrylate) microspheres enhances the degradation of azinphosâ€methyl. Journal of Applied Polymer Science, 2019, 136, 47417.	2.6	19
58	Microbial production of high value molecules using rayon waste material as carbon-source. New Biotechnology, 2019, 51, 8-13.	4.4	6
59	Enzymatic hydrolysis of poly(1,4-butylene 2,5-thiophenedicarboxylate) (PBTF) and poly(1,4-butylene) Tj ETQq1 1 0.784314 rgBT /Overlo 104852.	10.0	41
60	Enzymatic synthesis of lignin derivable pyridine based polyesters for the substitution of petroleum derived plastics. Nature Communications, 2019, 10, 1762.	12.8	58
61	Lysozyme-Responsive Spray-Dried Chitosan Particles for Early Detection of Wound Infection. ACS Applied Bio Materials, 2019, 2, 1331-1339.	4.6	22
62	Smart textiles in wound care: functionalization of cotton/PET blends with antimicrobial nanocapsules. Journal of Materials Chemistry B, 2019, 7, 6592-6603.	5.8	23
63	Switched reaction specificity in polyesterases towards amide bond hydrolysis by enzyme engineering. RSC Advances, 2019, 9, 36217-36226.	3.6	15
64	Surface engineering of polyester-degrading enzymes to improve efficiency and tune specificity. Applied Microbiology and Biotechnology, 2018, 102, 3551-3559.	3.6	51
65	Wound swab and wound biopsy yield similar culture results. Wound Repair and Regeneration, 2018, 26, 192-199.	3.0	28
66	The chemo enzymatic functionalization of chitosan zeolite particles provides antioxidant and antimicrobial properties. Engineering in Life Sciences, 2018, 18, 334-340.	3.6	15
67	Enzymatic Recycling of High-Value Phosphor Flame-Retardant Pigment and Glucose from Rayon Fibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 2386-2394.	6.7	25
68	Laccase catalyzed elimination of morphine from aqueous systems. New Biotechnology, 2018, 42, 19-25.	4.4	17
69	Laccase modified lignosulfonates as novel binder in pigment based paper coating formulations. Reactive and Functional Polymers, 2018, 123, 20-25.	4.1	30
70	Technical Lignins and Their Utilization in the Surface Sizing of Paperboard. Industrial & Engineering Chemistry Research, 2018, 57, 6284-6291.	3.7	15
71	Synergistic effect of mutagenesis and truncation to improve a polyesterase from Clostridium botulinum for polyester hydrolysis. Scientific Reports, 2018, 8, 3745.	3.3	27
72	Anti-inflammatory and anti-oxidant properties of laccase-synthesized phenolic-O-carboxymethyl chitosan hydrogels. New Biotechnology, 2018, 40, 236-244.	4.4	38

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73	Enzyme functionalized electrospun chitosan mats for antimicrobial treatment. Carbohydrate Polymers, 2018, 181, 551-559.	10.2	52
74	Enzymes as Enhancers for the Biodegradation of Synthetic Polymers in Wastewater. ChemBioChem, 2018, 19, 317-325.	2.6	17
75	Efficient Physisorption of Candida Antarctica Lipase B on Polypropylene Beads and Application for Polyester Synthesis. Catalysts, 2018, 8, 369.	3.5	19
76	Highly Selective Enzymatic Recovery of Building Blocks from Wool-Cotton-Polyester Textile Waste Blends. Polymers, 2018, 10, 1107.	4.5	47
77	Internalization of Methotrexate Conjugates by Folate Receptor-Î±. Biochemistry, 2018, 57, 6780-6786.	2.5	12
78	Enzymatic Degradation of Star Poly(Îµ-Caprolactone) with Different Central Units. Polymers, 2018, 10, 1266.	4.5	34
79	Structural insights into pH-responsive drug release of self-assembling human serum albumin-silk fibroin nanocapsules. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 133, 176-187.	4.3	21
80	Enzymes as Green Catalysts and Interactive Biomolecules in Wound Dressing Hydrogels. Trends in Biotechnology, 2018, 36, 1040-1053.	9.3	41
81	Ultrasound-assisted extraction of hemicellulose and phenolic compounds from bamboo bast fiber powder. PLoS ONE, 2018, 13, e0197537.	2.5	12
82	Towards Sustainable Highâ€Performance Thermoplastics: Synthesis, Characterization, and Enzymatic Hydrolysis of Bisguaiacolâ€Based Polyesters. ChemSusChem, 2018, 11, 2529-2539.	6.8	63
83	Enzymatic recovery of polyester building blocks from polymer blends. Process Biochemistry, 2017, 59, 58-64.	3.7	89
84	Two distinct enzymatic approaches for coupling fatty acids onto lignocellulosic materials. Process Biochemistry, 2017, 59, 111-115.	3.7	6
85	Cellobiose dehydrogenase-based biomedical applications. Process Biochemistry, 2017, 59, 37-45.	3.7	19
86	A new arylesterase from Pseudomonas pseudoalcaligenes can hydrolyze ionic phthalic polyesters. Journal of Biotechnology, 2017, 257, 70-77.	3.8	13
87	Influence of nitrogen-rich substrates on biogas production and on the methanogenic community under mesophilic and thermophilic conditions. Anaerobe, 2017, 46, 146-154.	2.1	14
88	Engineering of the zinc-binding domain of an esterase from Clostridium botulinum towards increased activity on polyesters. Catalysis Science and Technology, 2017, 7, 1440-1447.	4.1	14
89	A Dual-Enzyme Hydrogen Peroxide Generation Machinery in Hydrogels Supports Antimicrobial Wound Treatment. ACS Applied Materials & Interfaces, 2017, 9, 15307-15316.	8.0	44
90	Synergistic chemoâ€enzymatic hydrolysis of poly(ethylene terephthalate) from textile waste. Microbial Biotechnology, 2017, 10, 1376-1383.	4.2	85

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91	Enzymatic Hydrolysis of Polyester Thin Films at the Nanoscale: Effects of Polyester Structure and Enzyme Active-Site Accessibility. Environmental Science & Technology, 2017, 51, 7476-7485.	10.0	89
92	Hydrolysis of Ionic Phthalic Acid Based Polyesters by Wastewater Microorganisms and Their Enzymes. Environmental Science & Technology, 2017, 51, 4596-4605.	10.0	35
93	Superhydrophobic functionalization of cutinase activated poly(lactic acid) surfaces. Green Chemistry, 2017, 19, 816-822.	9.0	25
94	PpEst is a novel PBAT degrading polyesterase identified by proteomic screening of Pseudomonas pseudoalcaligenes. Applied Microbiology and Biotechnology, 2017, 101, 2291-2303.	3.6	82
95	Discovery of Polyesterases from Moss-Associated Microorganisms. Applied and Environmental Microbiology, 2017, 83, .	3.1	29
96	Enzymatic production of clickable and PEGylated recombinant polyhydroxyalkanoates. Green Chemistry, 2017, 19, 5494-5504.	9.0	17
97	Enzymatic surface hydrolysis of poly(ethylene furanoate) thin films of various crystallinities. Green Chemistry, 2017, 19, 5381-5384.	9.0	80
98	Hisâ€Tag Immobilization of Cutinase 1 From Thermobifida cellulosilytica for Solventâ€Free Synthesis of Polyesters. Biotechnology Journal, 2017, 12, 1700322.	3.5	16
99	Small cause, large effect: Structural characterization of cutinases from <i>Thermobifida cellulosilytica</i>. Biotechnology and Bioengineering, 2017, 114, 2481-2488.	3.3	56
100	Polyol Structure Influences Enzymatic Hydrolysis of Bioâ€Based 2,5â€Furandicarboxylic Acid (FDCA) Polyesters. Biotechnology Journal, 2017, 12, 1600741.	3.5	29
101	Cytotoxicity of Biochar: A Workplace Safety Concern?. Environmental Science and Technology Letters, 2017, 4, 362-366.	8.7	48
102	Enzymatic Functionalization of HMLS-Polyethylene Terephthalate Fabrics Improves the Adhesion to Rubber. ACS Sustainable Chemistry and Engineering, 2017, 5, 6456-6465.	6.7	27
103	Enzymatic hydrolysis of poly(ethyleneterephthalate) used for and analysed by pore modification of track-etched membranes. New Biotechnology, 2017, 39, 42-50.	4.4	14
104	Chitosan hydrogel formation using laccase activated phenolics as cross-linkers. Carbohydrate Polymers, 2017, 157, 814-822.	10.2	78
105	Enzyme-catalyzed functionalization of poly(L-lactic acid) for drug delivery applications. Process Biochemistry, 2017, 59, 77-83.	3.7	42
106	Cellobiose dehydrogenase and chitosanâ€based lysozyme responsive materials for antimicrobial wound treatment. Biotechnology and Bioengineering, 2017, 114, 416-422.	3.3	24
107	Fully renewable polyesters via polycondensation catalyzed by Thermobifida cellulosilytica cutinase 1: an integrated approach. Green Chemistry, 2017, 19, 490-502.	9.0	29
108	Polyester hydrolysis is enhanced by a truncated esterase: Less is more. Biotechnology Journal, 2017, 12, .	3.5	26

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109	Enzymatic Systems for Cellulose Acetate Degradation. Catalysts, 2017, 7, 287.	3.5	40
110	Enzymatic Degradation of Poly(ethylene 2,5-furanoate) Powders and Amorphous Films. Catalysts, 2017, 7, 318.	3.5	76
111	Enzymatic Degradation of Aromatic and Aliphatic Polyesters by P. pastoris Expressed Cutinase 1 from Thermobifida cellulosilytica. Frontiers in Microbiology, 2017, 8, 938.	3.5	62
112	Polyol Structure and Ionic Moieties Influence the Hydrolytic Stability and Enzymatic Hydrolysis of Bio-Based 2,5-Furandicarboxylic Acid (FDCA) Copolyesters. Polymers, 2017, 9, 403.	4.5	16
113	2. Microbial applications for fabric and textile industries. , 2016, , 33-78.		1
114	Nature Inspired Solutions for Polymers: Will Cutinase Enzymes Make Polyesters and Polyamides Greener?. Catalysts, 2016, 6, 205.	3.5	42
115	On the Effect of Microwave Energy on Lipase-Catalyzed Polycondensation Reactions. Molecules, 2016, 21, 1245.	3.8	17
116	Polymerization of Various Lignins via Immobilized Myceliophthora thermophila Laccase (MtL). Polymers, 2016, 8, 280.	4.5	27
117	Exploring mild enzymatic sustainable routes for the synthesis of bioâ€degradable aromaticâ€aliphatic oligoesters. Biotechnology Journal, 2016, 11, 642-647.	3.5	24
118	Myeloperoxidaseâ€responsive materials for infection detection based on immobilized aminomethoxyphenol. Biotechnology and Bioengineering, 2016, 113, 2553-2560.	3.3	9
119	Cellobiose dehydrogenase functionalized urinary catheter as novel antibiofilm system. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1448-1456.	3.4	34
120	Chitosan based substrates for wound infection detection based on increased lysozyme activity. Carbohydrate Polymers, 2016, 151, 260-267.	10.2	23
121	Ultrasound-enhanced enzymatic hydrolysis of poly(ethylene terephthalate). Bioresource Technology, 2016, 218, 1298-1302.	9.6	50
122	Commercial cellulases from Trichoderma longibrachiatum enable a large-scale production of chito-oligosaccharides. Pure and Applied Chemistry, 2016, 88, 865-872.	1.9	5
123	Renewable building blocks for sustainable polyesters: new biotechnological routes for greener plastics. Polymer International, 2016, 65, 861-871.	3.1	127
124	Hydrolysis of synthetic polyesters by <i>Clostridium botulinum</i> esterases. Biotechnology and Bioengineering, 2016, 113, 1024-1034.	3.3	65
125	Influence of Oxygen and Mediators on Laccase-Catalyzed Polymerization of Lignosulfonate. ACS Sustainable Chemistry and Engineering, 2016, 4, 5303-5310.	6.7	55
126	Hydrolytic degradation of ROMP thermosetting materials catalysed by bio-derived acids and enzymes: from networks to linear materials. Green Chemistry, 2016, 18, 5190-5199.	9.0	13

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127	Cellobiohydrolases Produce Different Oligosaccharides from Chitosan. Biomacromolecules, 2016, 17, 2284-2292.	5.4	21
128	Antifouling and Antibacterial Multifunctional Polyzwitterion/Enzyme Coating on Silicone Catheter Material Prepared by Electrostatic Layer-by-Layer Assembly. Langmuir, 2016, 32, 1347-1359.	3.5	122
129	The Closure of the Cycle: Enzymatic Synthesis and Functionalization of Bio-Based Polyesters. Trends in Biotechnology, 2016, 34, 316-328.	9.3	107
130	Enlarging the tools for efficient enzymatic polycondensation: structural and catalytic features of cutinase 1 from Thermobifida cellulosilytica. Catalysis Science and Technology, 2016, 6, 3430-3442.	4.1	33
131	Antimicrobial Cellobiose Dehydrogenase-Chitosan Particles. ACS Applied Materials & Interfaces, 2016, 8, 967-973.	8.0	25
132	Characterization of a poly(butylene adipate-co-terephthalate)-hydrolyzing lipase from Pelosinus fermentans. Applied Microbiology and Biotechnology, 2016, 100, 1753-1764.	3.6	75
133	An Esterase from Anaerobic <i>Clostridium hathewayi</i> Can Hydrolyze Aliphaticâ€"Aromatic Polyesters. Environmental Science & Technology, 2016, 50, 2899-2907.	10.0	39
134	Enzymatic hydrolysis of poly(ethylene furanoate). Journal of Biotechnology, 2016, 235, 47-53.	3.8	104
135	Comparison of biogas sludge and raw crop material as source of hydrolytic cultures for anaerobic digestion. Bioresource Technology, 2016, 207, 244-251.	9.6	27
136	Data on synthesis of oligomeric and polymeric poly(butylene adipate-co-butylene terephthalate) model substrates for the investigation of enzymatic hydrolysis. Data in Brief, 2016, 7, 291-298.	1.0	11
137	Improving enzymatic polyurethane hydrolysis by tuning enzyme sorption. Polymer Degradation and Stability, 2016, 132, 69-77.	5.8	85
138	Substrate specificities of cutinases on aliphaticâ€"aromatic polyesters and on their model substrates. New Biotechnology, 2016, 33, 295-304.	4.4	56
139	Laccase oxidation and removal of toxicants released during combustion processes. Chemosphere, 2016, 144, 652-660.	8.2	14
140	Rapid enzyme analysis as a diagnostic tool for wound infection: Comparison between clinical judgment, microbiological analysis, and enzyme analysis. Wound Repair and Regeneration, 2015, 23, 345-352.	3.0	25
141	Biocatalyzed approach for the surface functionalization of poly(Lâ€lactic acid) films using hydrolytic enzymes. Biotechnology Journal, 2015, 10, 1739-1749.	3.5	55
142	Phenolic antioxidants and their role in quenching of reactive molecular species in the human skin injury. Lipid Technology, 2015, 27, 36-39.	0.3	3
143	Assessment of infection in chronic wounds based on the activities of elastase, lysozyme and myeloperoxidase. British Journal of Dermatology, 2015, 173, 1529-1531.	1.5	13
144	Fast Blue RRâ€"Siloxane Derivatized Materials Indicate Wound Infection Due to a Deep Blue Color Development. Materials, 2015, 8, 6633-6639.	2.9	4

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145	Biomimetic Approach to Enhance Enzymatic Hydrolysis of the Synthetic Polyester Poly(1,4-butylene) Tj ETQq1 1 0.784314 rgBT /Overlo	5.4	21
146	Lysozymeâ€responsive polymer systems for detection of infection. Engineering in Life Sciences, 2015, 15, 368-375.	3.6	13
147	Peptide Anchor for Folate-Targeted Liposomal Delivery. Biomacromolecules, 2015, 16, 2904-2910.	5.4	34
148	Laccase mediated oxidation of industrial lignins: Is oxygen limiting?. Process Biochemistry, 2015, 50, 1277-1283.	3.7	49
149	Size controlled protein nanoemulsions for active targeting of folate receptor positive cells. Colloids and Surfaces B: Biointerfaces, 2015, 135, 90-98.	5.0	26
150	Ultrasound coating of polydimethylsiloxanes with antimicrobial enzymes. Journal of Materials Chemistry B, 2015, 3, 7014-7019.	5.8	26
151	2nd International Conference Biogas Science 2014, Vienna, Austria. Energy & Fuels, 2015, 29, 4003-4004.	5.1	0
152	Enhanced Cutinase-Catalyzed Hydrolysis of Polyethylene Terephthalate by Covalent Fusion to Hydrophobins. Applied and Environmental Microbiology, 2015, 81, 3586-3592.	3.1	149
153	Biomarkers for infection: enzymes, microbes, and metabolites. Applied Microbiology and Biotechnology, 2015, 99, 4595-4614.	3.6	45
154	Microbiology and Molecular Biology Tools for Biogas Process Analysis, Diagnosis and Control. Advances in Biochemical Engineering/Biotechnology, 2015, 151, 1-40.	1.1	9
155	Enzyme-responsive polymers for microbial infection detection. Expert Review of Molecular Diagnostics, 2015, 15, 1125-1131.	3.1	12
156	A robust and simple protocol for the synthesis of arylfluorophosphonates. Tetrahedron Letters, 2015, 56, 5619-5622.	1.4	6
157	Laccase functionalized cellulose acetate for the removal of toxic combustion products. Reactive and Functional Polymers, 2015, 97, 12-18.	4.1	7
158	An electrochemical sensor for fast detection of wound infection based on myeloperoxidase activity. Sensors and Actuators B: Chemical, 2015, 209, 265-274.	7.8	32
159	Laccaseâ€"cellobiose dehydrogenase-catalyzed detoxification of phenolic-rich olive processing residues. International Journal of Environmental Science and Technology, 2015, 12, 1343-1352.	3.5	11
160	Laccase Functionalization of Flax and Coconut Fibers. Polymers, 2014, 6, 1676-1684.	4.5	18
161	Identification and Application of Enantiocomplementary Lactamases for Vince Lactam Derivatives. ChemCatChem, 2014, 6, 2517-2521.	3.7	18
162	Microbial Conversion of Crude Glycerol to Dihydroxyacetone. Waste and Biomass Valorization, 2014, 5, 781-787.	3.4	9

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163	Biosilicaâ€loaded poly(Ïµâ€caprolactone) nanofibers: A step closer to bioprinted materials with tunable properties. Biotechnology Journal, 2014, 9, 1231-1232.	3.5	0
164	Preventing microbial colonisation of catheters: Antimicrobial and antibiofilm activities of cellobiose dehydrogenase. International Journal of Antimicrobial Agents, 2014, 44, 402-408.	2.5	39
165	Esterases from Clostridium are involved in anaerobic degradation of synthetic polyester. New Biotechnology, 2014, 31, S3.	4.4	1
166	Green polymer processing with enzymes. New Biotechnology, 2014, 31, S31.	4.4	0
167	Enzyme responsive polymers. New Biotechnology, 2014, 31, S2.	4.4	0
168	Bioresponsive polymers for the detection of bacterial contaminations in platelet concentrates. New Biotechnology, 2014, 31, 150-155.	4.4	4
169	Enzyme-based online monitoring and measurement of antioxidant activity using an optical oxygen sensor coupled to an HPLC system. Analytical and Bioanalytical Chemistry, 2013, 405, 2371-2377.	3.7	11
170	Semi-rational engineering of cellobiose dehydrogenase for improved hydrogen peroxide production. Microbial Cell Factories, 2013, 12, 38.	4.0	38
171	Activated zeoliteâ€"suitable carriers for microorganisms in anaerobic digestion processes?. Applied Microbiology and Biotechnology, 2013, 97, 3225-3238.	3.6	24
172	Enzymatic hydrolysis of polyester based coatings. Reactive and Functional Polymers, 2013, 73, 1335-1339.	4.1	12
173	Effect of cross-linking method on the activity of spray-dried chitosan microparticles with immobilized laccase. Food and Bioproducts Processing, 2013, 91, 525-533.	3.6	29
174	Enzymatic synthesis of antibody-human serum albumin conjugate for targeted drug delivery using tyrosinase from Agaricus bisporus. RSC Advances, 2013, 3, 1460-1467.	3.6	16
175	Antimicrobial enzymes: An emerging strategy to fight microbes and microbial biofilms. Biotechnology Journal, 2013, 8, 97-109.	3.5	249
176	Synthesis of multifunctional bioresponsive polymers for the management of chronic wounds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 882-891.	3.4	18
177	Banning toxic heavy-metal catalysts from paints: enzymatic cross-linking of alkyd resins. Green Chemistry, 2013, 15, 381.	9.0	36
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