

Georg M Guebitz

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377
papers

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h-index

100
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406
ext. papers

16,651
ext. citations

5.4
avg, IF

6.53
L-index

#	Paper	IF	Citations
377	Decolorization and detoxification of textile dyes with a laccase from <i>Trametes hirsuta</i> . <i>Applied and Environmental Microbiology</i> , 2000 , 66, 3357-62	4.8	579
376	Exploitation of the tropical oil seed plant <i>Jatropha curcas</i> L.. <i>Bioresource Technology</i> , 1999 , 67, 73-82	11	440
375	Conversion of sewage sludge into lipids by <i>Lipomyces starkeyi</i> for biodiesel production. <i>Bioresource Technology</i> , 2008 , 99, 3051-6	11	307
374	CuO/zinc nanocomposite: Formation, morphology, and antibacterial activity. <i>Surface and Coatings Technology</i> , 2009 , 204, 54-57	4.4	252
373	Potential applications of laccase-mediated coupling and grafting reactions: a review. <i>Enzyme and Microbial Technology</i> , 2011 , 48, 195-208	3.8	235
372	Decolorization of textile dyes by laccases from a newly isolated strain of <i>Trametes modesta</i> . <i>Water Research</i> , 2002 , 36, 1449-56	12.5	209
371	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	5.5	205
370	Formal asymmetric biocatalytic reductive amination. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9337-40	16.4	194
369	Indigo degradation with purified laccases from <i>Trametes hirsuta</i> and <i>Sclerotium rolfsii</i> . <i>Journal of Biotechnology</i> , 2001 , 89, 131-9	3.7	194
368	Antimicrobial enzymes: an emerging strategy to fight microbes and microbial biofilms. <i>Biotechnology Journal</i> , 2013 , 8, 97-109	5.6	189
367	A new alkali-thermostable azoreductase from <i>Bacillus</i> sp. strain SF. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 837-44	4.8	177
366	Enzymes go big: surface hydrolysis and functionalization of synthetic polymers. <i>Trends in Biotechnology</i> , 2008 , 26, 32-8	15.1	162
365	Enzymatic surface hydrolysis of poly(ethylene terephthalate) and bis(benzoyloxyethyl) terephthalate by lipase and cutinase in the presence of surface active molecules. <i>Journal of Biotechnology</i> , 2009 , 143, 207-12	3.7	141
364	Tailoring cutinase activity towards polyethylene terephthalate and polyamide 6,6 fibers. <i>Journal of Biotechnology</i> , 2007 , 128, 849-57	3.7	135
363	Antimicrobial and antioxidant properties of chitosan enzymatically functionalized with flavonoids. <i>Process Biochemistry</i> , 2009 , 44, 749-756	4.8	133
362	Stainless steel sponge: a novel carrier for the immobilisation of the white-rot fungus <i>Trametes hirsuta</i> for decolourization of textile dyes. <i>Bioresource Technology</i> , 2004 , 95, 67-72	11	127
361	Bio-preparation of cotton fabrics. <i>Enzyme and Microbial Technology</i> , 2001 , 29, 357-362	3.8	127

360	Influence of redox mediators and metal ions on synthetic acid dye decolourization by crude laccase from <i>Trametes hirsuta</i> . <i>Chemosphere</i> , 2005 , 58, 417-22	8.4	123
359	Characterization of a chitinase and an endo-beta-1,3-glucanase from <i>Trichoderma harzianum</i> Rifai T24 involved in control of the phytopathogen <i>Sclerotium rolfsii</i> . <i>Applied Microbiology and Biotechnology</i> , 2001 , 56, 137-43	5.7	119
358	New substrates for reliable enzymes: enzymatic modification of polymers. <i>Current Opinion in Biotechnology</i> , 2003 , 14, 577-82	11.4	117
357	Influence of trace elements on methane formation from a synthetic model substrate for maize silage. <i>Bioresource Technology</i> , 2010 , 101, 836-9	11	116
356	Immobilized laccase for decolourization of Reactive Black 5 dyeing effluent. <i>Biotechnology Letters</i> , 2003 , 25, 1473-7	3	112
355	Hydrogen peroxide generation with immobilized glucose oxidase for textile bleaching. <i>Journal of Biotechnology</i> , 2002 , 93, 87-94	3.7	110
354	Enhanced cutinase-catalyzed hydrolysis of polyethylene terephthalate by covalent fusion to hydrophobins. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 3586-92	4.8	109
353	New model substrates for enzymes hydrolysing polyethyleneterephthalate and polyamide fibres. <i>Journal of Proteomics</i> , 2006 , 69, 89-99		108
352	Renewable building blocks for sustainable polyesters: new biotechnological routes for greener plastics. <i>Polymer International</i> , 2016 , 65, 861-871	3.3	107
351	Application of power ultrasound for azo dye degradation. <i>Ultrasonics Sonochemistry</i> , 2004 , 11, 177-82	8.9	103
350	Fusion of binding domains to <i>Thermobifida cellulolytica</i> cutinase to tune sorption characteristics and enhancing PET hydrolysis. <i>Biomacromolecules</i> , 2013 , 14, 1769-76	6.9	102
349	Antifouling and Antibacterial Multifunctional Polyzwitterion/Enzyme Coating on Silicone Catheter Material Prepared by Electrostatic Layer-by-Layer Assembly. <i>Langmuir</i> , 2016 , 32, 1347-59	4	101
348	Enzymatic and chemical hydrolysis of poly(ethylene terephthalate) fabrics. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 6435-6443	2.5	101
347	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	100
346	Voltammetric monitoring of laccase-catalysed mediated reactions. <i>Bioelectrochemistry</i> , 2002 , 58, 149-56	5.6	99
345	Immobilization of catalases from <i>Bacillus SF</i> on alumina for the treatment of textile bleaching effluents. <i>Enzyme and Microbial Technology</i> , 2001 , 28, 815-819	3.8	98
344	Study of dye decolorization in an immobilized laccase enzyme-reactor using online spectroscopy. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 552-63	4.9	96
343	Production of laccase by a newly isolated strain of <i>Trametes modesta</i> . <i>Bioresource Technology</i> , 2002 , 84, 259-63	11	96

342	Hydrolysis of polyethyleneterephthalate by p-nitrobenzylesterase from <i>Bacillus subtilis</i> . <i>Biotechnology Progress</i> , 2011 , 27, 951-60	2.8	95
341	An acid-stable laccase from <i>Sclerotium rolfsii</i> with potential for wool dye decolourization. <i>Enzyme and Microbial Technology</i> , 2003 , 33, 766-774	3.8	93
340	The Closure of the Cycle: Enzymatic Synthesis and Functionalization of Bio-Based Polyesters. <i>Trends in Biotechnology</i> , 2016 , 34, 316-328	15.1	92
339	Characterization of a new cutinase from <i>Thermobifida alba</i> for PET-surface hydrolysis. <i>Biocatalysis and Biotransformation</i> , 2012 , 30, 2-9	2.5	90
338	Purification and characterization of a new bioscouring pectate lyase from <i>Bacillus pumilus</i> BK2. <i>Journal of Biotechnology</i> , 2006 , 121, 390-401	3.7	89
337	Siloxane removal from biogas by biofiltration: biodegradation studies. <i>Clean Technologies and Environmental Policy</i> , 2008 , 10, 211-218	4.3	86
336	Surface engineering of a cutinase from <i>Thermobifida cellulolytica</i> for improved polyester hydrolysis. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2581-90	4.9	85
335	Impact of nickel and cobalt on biogas production and process stability during semi-continuous anaerobic fermentation of a model substrate for maize silage. <i>Water Research</i> , 2011 , 45, 781-7	12.5	85
334	Polymerization of lignosulfonates by the laccase-HBT (1-hydroxybenzotriazole) system improves dispersibility. <i>Bioresource Technology</i> , 2010 , 101, 5054-62	11	85
333	Investigations on the laccase-catalyzed polymerization of lignin model compounds using size-exclusion HPLC. <i>Enzyme and Microbial Technology</i> , 2002 , 31, 403-410	3.8	85
332	Stability and decolourization ability of <i>Trametes villosa</i> laccase in liquid ultrasonic fields. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 355-62	8.9	84
331	Cutinase – A new tool for biomodification of synthetic fibers. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 2448-2450	2.5	84
330	Enzymatic hydrolysis of poly(ethylene furanoate). <i>Journal of Biotechnology</i> , 2016 , 235, 47-53	3.7	82
329	Enzymatic Decolorization of Textile Dyeing Effluents. <i>Textile Research Journal</i> , 2000 , 70, 409-414	1.7	81
328	Hydrolysis of PET and bis-(benzoyloxyethyl) terephthalate with a new polyesterase from <i>Penicillium citrinum</i> . <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 171-177	2.5	79
327	New enzymes with potential for PET surface modification. <i>Biocatalysis and Biotransformation</i> , 2004 , 22, 341-346	2.5	79
326	Esterase and lipase activity in <i>Jatropha curcas</i> L. seeds. <i>Journal of Biotechnology</i> , 1999 , 75, 117-26	3.7	78
325	Laccase-assisted formation of bioactive chitosan/gelatin hydrogel stabilized with plant polyphenols. <i>Carbohydrate Polymers</i> , 2013 , 92, 989-96	10.3	77

324	Treatment of wool fibres with subtilisin and subtilisin-PEG. <i>Enzyme and Microbial Technology</i> , 2005 , 36, 917-922	3.8	75
323	Enhancement of biogas production by addition of hemicellulolytic bacteria immobilised on activated zeolite. <i>Water Research</i> , 2010 , 44, 1970-80	12.5	74
322	Development and industrialisation of enzymatic shrink-resist process based on modified proteases for wool machine washability. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1656-1661	3.8	73
321	Hydrolysis of isolated coffee mannan and coffee extract by mannanases of <i>Sclerotium rolfsii</i> . <i>Journal of Biotechnology</i> , 2000 , 80, 127-34	3.7	72
320	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, 4230-8	4.8	71
319	Predicting dye biodegradation from redox potentials. <i>Biotechnology Progress</i> , 2004 , 20, 1588-92	2.8	71
318	Influence of structure on dye degradation with laccase mediator systems. <i>Biocatalysis and Biotransformation</i> , 2004 , 22, 315-324	2.5	70
317	Laccases to Improve the Whiteness in a Conventional Bleaching of Cotton. <i>Macromolecular Materials and Engineering</i> , 2003 , 288, 807-810	3.9	70
316	Laccase immobilization on enzymatically functionalized polyamide 6,6 fibres. <i>Enzyme and Microbial Technology</i> , 2007 , 41, 867-875	3.8	69
315	Degradation of azo dyes by oxidative processes--laccase and ultrasound treatment. <i>Bioresource Technology</i> , 2008 , 99, 4213-20	11	68
314	Studies of stabilization of native catalase using additives. <i>Enzyme and Microbial Technology</i> , 2002 , 30, 387-391	3.8	68
313	Ultrasound radiation as a "throwing stones" technique for the production of antibacterial nanocomposite textiles. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1999-2004	9.5	67
312	Folic acid-functionalized human serum albumin nanocapsules for targeted drug delivery to chronically activated macrophages. <i>International Journal of Pharmaceutics</i> , 2012 , 427, 460-6	6.5	66
311	Nitrile hydratase and amidase from <i>Rhodococcus rhodochrous</i> hydrolyze acrylic fibers and granular polyacrylonitriles. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1634-8	4.8	65
310	Xylan binding subsite mapping in the xylanase from <i>Penicillium simplicissimum</i> using xylooligosaccharides as cryo-protectant. <i>Biochemistry</i> , 1999 , 38, 2403-12	3.2	64
309	Characterization of endoglucanases from the brown rot fungi <i>Gloeophyllum seiparium</i> and <i>Gloeophyllum trabeum</i> . <i>Enzyme and Microbial Technology</i> , 1998 , 23, 133-140	3.8	63
308	Antimicrobial and antioxidant linen via laccase-assisted grafting. <i>Reactive and Functional Polymers</i> , 2011 , 71, 713-720	4.6	62
307	Enzymatic coating of lignocellulosic surfaces with polyphenols. <i>Biotechnology Journal</i> , 2007 , 2, 334-41	5.6	62

306	Lipid composition of peroxisomes from the yeast <i>Pichia pastoris</i> grown on different carbon sources. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007 , 1771, 455-61	5	62
305	Enzymatic surface hydrolysis of poly(ethylene furanoate) thin films of various crystallinities. <i>Green Chemistry</i> , 2017 , 19, 5381-5384	10	61
304	Enzymatic surface functionalisation of lignocellulosic materials with tannins for enhancing antibacterial properties. <i>Process Biochemistry</i> , 2010 , 45, 1072-1081	4.8	61
303	Enzymatic hydrolysis of PTT polymers and oligomers. <i>Journal of Biotechnology</i> , 2008 , 135, 45-51	3.7	60
302	A novel metalloprotease from <i>Bacillus cereus</i> for protein fibre processing. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1772-1781	3.8	60
301	Cross-linking of collagen with laccases and tyrosinases. <i>Materials Science and Engineering C</i> , 2011 , 31, 1068-1077	8.3	58
300	Environmentally friendly bleaching of cotton using laccases. <i>Environmental Chemistry Letters</i> , 2005 , 3, 66-69	13.3	58
299	Enzymatic recovery of polyester building blocks from polymer blends. <i>Process Biochemistry</i> , 2017 , 59, 58-64	4.8	57
298	Chitosan hydrogel formation using laccase activated phenolics as cross-linkers. <i>Carbohydrate Polymers</i> , 2017 , 157, 814-822	10.3	57
297	Purification and characterization of a new low molecular weight endoxylanase from <i>Penicillium capsulatum</i> . <i>Enzyme and Microbial Technology</i> , 2003 , 33, 775-785	3.8	57
296	Degradation of azo dyes by laccase and ultrasound treatment. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 2600-7	4.8	56
295	Biotransformation of phenolics with laccase containing bacterial spores. <i>Environmental Chemistry Letters</i> , 2005 , 3, 74-77	13.3	56
294	Enzymatic Degradation of Poly(ethylene 2,5-furanoate) Powders and Amorphous Films. <i>Catalysts</i> , 2017 , 7, 318	4	54
293	Purification and properties of a feruloyl esterase involved in lignocellulose degradation by <i>Aureobasidium pullulans</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 5622-6	4.8	54
292	Thermo-alkali-stable catalases from newly isolated <i>Bacillus</i> sp. for the treatment and recycling of textile bleaching effluents. <i>Journal of Biotechnology</i> , 2001 , 89, 147-53	3.7	54
291	Mannan-degrading enzymes from <i>Sclerotium rolfsii</i> : Characterisation and synergism of two endo- β -mannanases and a β -mannosidase. <i>Bioresource Technology</i> , 1996 , 58, 127-135	11	54
290	Effect of endoglucanases and hemicellulases in magnetic and flotation deinking of xerographic and laser-printed papers. <i>Journal of Biotechnology</i> , 1998 , 65, 209-215	3.7	53
289	Purification and properties of an acidic β -mannanase from <i>Sclerotium rolfsii</i> . <i>Journal of Biotechnology</i> , 1996 , 45, 165-172	3.7	53

288	Synergistic chemo-enzymatic hydrolysis of poly(ethylene terephthalate) from textile waste. <i>Microbial Biotechnology</i> , 2017 , 10, 1376-1383	6.3	51
287	Towards Sustainable High-Performance Thermoplastics: Synthesis, Characterization, and Enzymatic Hydrolysis of Bisguaiacol-Based Polyesters. <i>ChemSusChem</i> , 2018 , 11, 2529-2539	8.3	51
286	Reactivity of long chain alkylamines to lignin moieties: implications on hydrophobicity of lignocellulose materials. <i>Journal of Biotechnology</i> , 2010 , 149, 81-7	3.7	51
285	Laccase-Mediated Wood Surface Functionalization. <i>Engineering in Life Sciences</i> , 2008 , 8, 297-302	3.4	51
284	Investigation of microorganisms colonising activated zeolites during anaerobic biogas production from grass silage. <i>Bioresource Technology</i> , 2011 , 102, 4353-9	11	50
283	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	5.7	49
282	Novel peptidoglycan-based diagnostic devices for detection of wound infection. <i>Diagnostic Microbiology and Infectious Disease</i> , 2011 , 71, 12-23	2.9	49
281	Enzymatic grafting of functional molecules to the lignin model dibenzodioxocin and lignocellulose material. <i>Enzyme and Microbial Technology</i> , 2010 , 46, 272-280	3.8	49
280	Laccase catalyzed covalent coupling of fluorophenols increases lignocellulose surface hydrophobicity. <i>Bioresource Technology</i> , 2010 , 101, 2793-9	11	49
279	Influence of mechanical agitation on cutinases and protease activity towards polyamide substrates. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1678-1685	3.8	48
278	Characterization of a thermostable NADPH:FMN oxidoreductase from the mesophilic bacterium <i>Bacillus subtilis</i> . <i>Biochemistry</i> , 2006 , 45, 7083-91	3.2	48
277	Biogas production from <i>Jatropha curcas</i> press-cake. <i>Applied Biochemistry and Biotechnology</i> , 1997 , 63-65, 457-467	3.2	47
276	Improving enzymatic polyurethane hydrolysis by tuning enzyme sorption. <i>Polymer Degradation and Stability</i> , 2016 , 132, 69-77	4.7	46
275	Enzymatic removal of hemicellulose from dissolving pulps. <i>Biotechnology Letters</i> , 1997 , 19, 491-495	3	46
274	Biological Coloration of Flax Fabrics with Flavonoids using Laccase from <i>Trametes hirsuta</i> . <i>Engineering in Life Sciences</i> , 2008 , 8, 324-330	3.4	46
273	Biocatalyzed approach for the surface functionalization of poly(L-lactic acid) films using hydrolytic enzymes. <i>Biotechnology Journal</i> , 2015 , 10, 1739-49	5.6	45
272	A catalase-peroxidase from a newly isolated thermoalkaliphilic <i>Bacillus</i> sp. with potential for the treatment of textile bleaching effluents. <i>Extremophiles</i> , 2001 , 5, 423-9	3	45
271	In Situ Enzymatically Prepared Polymers for Wool Coloration. <i>Macromolecular Materials and Engineering</i> , 2001 , 286, 691	3.9	45

270	Hydrolysis of synthetic polyesters by Clostridium botulinum esterases. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1024-34	4.9	43
269	Biocatalytic single-step alkene cleavage from aryl alkenes: an enzymatic equivalent to reductive ozonization. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5201-3	16.4	43
268	Effect of the agitation on the adsorption and hydrolytic efficiency of cutinases on polyethylene terephthalate fibres. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1801-1805	3.8	42
267	Laccase-catalyzed decolorization of the synthetic azo-dye diamond black PV 200 and of some structurally related derivatives. <i>Biocatalysis and Biotransformation</i> , 2004 , 22, 331-339	2.5	42
266	An immobilised catalase peroxidase from the alkalothermophilic Bacillus SF for the treatment of textile-bleaching effluents. <i>Applied Microbiology and Biotechnology</i> , 2002 , 60, 313-9	5.7	42
265	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	10.3	41
264	Analysis of myeloperoxidase activity in wound fluids as a marker of infection. <i>Annals of Clinical Biochemistry</i> , 2013 , 50, 245-54	2.2	41
263	Sensor materials for the detection of human neutrophil elastase and cathepsin G activity in wound fluid. <i>Experimental Dermatology</i> , 2011 , 20, 508-13	4	41
262	Enzyme functionalized electrospun chitosan mats for antimicrobial treatment. <i>Carbohydrate Polymers</i> , 2018 , 181, 551-559	10.3	41
261	Enzymatic Degradation of Aromatic and Aliphatic Polyesters by Expressed Cutinase 1 from. <i>Frontiers in Microbiology</i> , 2017 , 8, 938	5.7	40
260	A novel aryl acylamidase from Nocardia farcinica hydrolyses polyamide. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1003-11	4.9	40
259	Mode of depolymerisation of hemicellulose by various mannanases and xylanases in relation to their ability to bleach softwood pulp. <i>Applied Microbiology and Biotechnology</i> , 1997 , 47, 658-662	5.7	40
258	The influence of enzymatic treatment on wool fibre properties using PEG-modified proteases. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1705-1711	3.8	40
257	Wax removal for accelerated cotton scouring with alkaline pectinase. <i>Biotechnology Journal</i> , 2007 , 2, 306-15	5.6	40
256	Ultrasound-enhanced enzymatic hydrolysis of poly(ethylene terephthalate). <i>Bioresource Technology</i> , 2016 , 218, 1298-302	11	40
255	Cellulose oxidation and bleaching processes based on recombinant Myriococcus thermophilum cellobiose dehydrogenase. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 60-7	3.8	39
254	Coupling of aromatic amines onto syringylglycerol β -guaiacyl ether using Bacillus SF spore laccase: A model for functionalization of lignin-based materials. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009 , 61, 143-149		39
253	Coupling of 2,4,6-trinitrotoluene (TNT) metabolites onto humic monomers by a new laccase from Trametes modesta. <i>Chemosphere</i> , 2006 , 64, 359-70	8.4	39

252	Production of Laccase by <i>Trametes hirsuta</i> Grown in an Immersion Bioreactor and its Application in the Decolorization of Dyes from a Leather Factory. <i>Engineering in Life Sciences</i> , 2004 , 4, 233-238	3.4	38
251	Nature Inspired Solutions for Polymers: Will Cutinase Enzymes Make Polyesters and Polyamides Greener?. <i>Catalysts</i> , 2016 , 6, 205	4	38
250	Enzymatic synthesis of lignin derivable pyridine based polyesters for the substitution of petroleum derived plastics. <i>Nature Communications</i> , 2019 , 10, 1762	17.4	37
249	Cytotoxicity of Biochar: A Workplace Safety Concern?. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 362-366	11	37
248	An antioxidant regenerating system for continuous quenching of free radicals in chronic wounds. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 83, 396-404	5.7	37
247	Coating of immobilised laccase for stability enhancement: A novel approach. <i>Applied Catalysis A: General</i> , 2007 , 329, 156-160	5.1	37
246	Enzymatic polymerization on the surface of functionalized cellulose fibers. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1782-1787	3.8	37
245	Surface hydrolysis of polyacrylonitrile with nitrile hydrolysing enzymes from <i>Micrococcus luteus</i> BST20. <i>Journal of Biotechnology</i> , 2007 , 129, 62-8	3.7	37
244	Influence of Cellulases on Indigo Backstaining. <i>Textile Research Journal</i> , 2000 , 70, 628-632	1.7	36
243	Laccase mediated oxidation of industrial lignins: Is oxygen limiting?. <i>Process Biochemistry</i> , 2015 , 50, 1277-1283	4.1	35
242	Influence of Oxygen and Mediators on Laccase-Catalyzed Polymerization of Lignosulfonate. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5303-5310	8.3	35
241	Small cause, large effect: Structural characterization of cutinases from <i>Thermobifida cellulolytica</i> . <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2481-2488	4.9	35
240	Enzymatic cross-linking of gelatine with laccase and tyrosinase. <i>Biocatalysis and Biotransformation</i> , 2012 , 30, 86-95	2.5	35
239	Antioxidant activity assay based on laccase-generated radicals. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 679-87	4.4	35
238	Tyrosinase-catalysed coupling of functional molecules onto protein fibres. <i>Enzyme and Microbial Technology</i> , 2008 , 42, 535-542	3.8	35
237	Two-stage anaerobic fermentation of organic waste in CSTR and UFAF-reactors. <i>Bioresource Technology</i> , 2002 , 81, 19-24	11	35
236	A Dual-Enzyme Hydrogen Peroxide Generation Machinery in Hydrogels Supports Antimicrobial Wound Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15307-15316	9.5	34
235	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	5.7	34

234	Preventing microbial colonisation of catheters: antimicrobial and antibiofilm activities of cellobiose dehydrogenase. <i>International Journal of Antimicrobial Agents</i> , 2014 , 44, 402-8	14.3	34
233	Lignin-hemicellulose complexes restrict enzymatic solubilization of mannan and xylan from dissolving pulp. <i>Applied Microbiology and Biotechnology</i> , 1998 , 50, 390-395	5.7	34
232	Laccase kinetics of degradation and coupling reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005 , 33, 23-28		34
231	Surface engineering of polyester-degrading enzymes to improve efficiency and tune specificity. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3551-3559	5.7	33
230	Banning toxic heavy-metal catalysts from paints: enzymatic cross-linking of alkyd resins. <i>Green Chemistry</i> , 2013 , 15, 381	10	33
229	Enzyme-catalyzed functionalization of poly(L-lactic acid) for drug delivery applications. <i>Process Biochemistry</i> , 2017 , 59, 77-83	4.8	33
228	Polymerization of guaiacol and a phenolic beta-O-4-substructure by <i>Trametes hirsuta</i> laccase in the presence of ABTS. <i>Biotechnology Progress</i> , 2003 , 19, 1505-9	2.8	33
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