Artur M Cavaco-Paulo

List of Publications by Year
in descending order

266	11,606	25034	39675
papers	citations	57 h-index	94 g-index

271	271	271	10090
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decolorization and Detoxification of Textile Dyes with a Laccase from Trametes hirsuta. Applied and Environmental Microbiology, 2000, 66, 3357-3362.	3.1	644
2	Biodegradable Materials Based on Silk Fibroin and Keratin. Biomacromolecules, 2008, 9, 1299-1305.	5.4	332
3	Enzymatic Surface Hydrolysis of PET: Effect of Structural Diversity on Kinetic Properties of Cutinases from Thermobifida. Macromolecules, 2011, 44, 4632-4640.	4.8	298
4	Indigo degradation with purified laccases from Trametes hirsuta and Sclerotium rolfsii. Journal of Biotechnology, 2001, 89, 131-139.	3.8	227
5	Application of enzymes for textile fibres processing. Biocatalysis and Biotransformation, 2008, 26, 332-349.	2.0	220
6	Novel silk fibroin/elastin wound dressings. Acta Biomaterialia, 2012, 8, 3049-3060.	8.3	213
7	A New Alkali-Thermostable Azoreductase from Bacillus sp. Strain SF. Applied and Environmental Microbiology, 2004, 70, 837-844.	3.1	210
8	Mechanism of cellulase action in textile processes. Carbohydrate Polymers, 1998, 37, 273-277.	10.2	185
9	Enzymes go big: surface hydrolysis and functionalisation of synthetic polymers. Trends in Biotechnology, 2008, 26, 32-38.	9.3	183
10	Enzymatic surface hydrolysis of poly(ethylene terephthalate) and bis(benzoyloxyethyl) terephthalate by lipase and cutinase in the presence of surface active molecules. Journal of Biotechnology, 2009, 143, 207-212.	3.8	183
11	Tailoring cutinase activity towards polyethylene terephthalate and polyamide 6,6 fibers. Journal of Biotechnology, 2007, 128, 849-857.	3.8	161
12	Bio-preparation of cotton fabrics. Enzyme and Microbial Technology, 2001, 29, 357-362.	3.2	157
13	Practical insights on enzyme stabilization. Critical Reviews in Biotechnology, 2018, 38, 335-350.	9.0	152
14	Degradation of Azo Dyes by Trametes villosa Laccase over Long Periods of Oxidative Conditions. Applied and Environmental Microbiology, 2005, 71, 6711-6718.	3.1	151
15	Albumin-Based Nanodevices as Drug Carriers. Current Pharmaceutical Design, 2016, 22, 1371-1390.	1.9	134
16	Laccase: a green catalyst for the biosynthesis of poly-phenols. Critical Reviews in Biotechnology, 2018, 38, 294-307.	9.0	134
17	Characterization of Azo Reduction Activity in a Novel Ascomycete Yeast Strain. Applied and Environmental Microbiology, 2004, 70, 2279-2288.	3.1	133
18	Immobilized laccase for decolourization of Reactive Black 5 dyeing effluent. Biotechnology Letters, 2003, 25, 1473-1477.	2.2	131

#	Article	IF	Citations
19	Engineered Thermobifida fusca cutinase with increased activity on polyester substrates. Biotechnology Journal, 2011, 6, 1230-1239.	3.5	127
20	New model substrates for enzymes hydrolysing polyethyleneterephthalate and polyamide fibres. Journal of Proteomics, 2006, 69, 89-99.	2.4	125
21	Hydrogen peroxide generation with immobilized glucose oxidase for textile bleaching. Journal of Biotechnology, 2002, 93, 87-94.	3.8	124
22	Microaerophilicâ€“aerobic sequential decolourization/biodegradation of textile azo dyes by a facultative Klebsiella sp. strain VN-31. Process Biochemistry, 2009, 44, 446-452.	3.7	113
23	Polymerization of lignosulfonates by the laccase-HBT (1-hydroxybenzotriazole) system improves dispersibility. Bioresource Technology, 2010, 101, 5054-5062.	9.6	112
24	Folate-targeted nanoparticles for rheumatoid arthritis therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1113-1126.	3.3	112
25	Voltammetric monitoring of laccase-catalysed mediated reactions. Bioelectrochemistry, 2002, 58, 149-156.	4.6	110
26	Protein micro- and nano-capsules for biomedical applications. Chemical Society Reviews, 2014, 43, 1361-1371.	38.1	110
27	Cutinase?A new tool for biomodification of synthetic fibers. Journal of Polymer Science Part A, 2005, 43, 2448-2450.	2.3	106
28	Immobilization of catalases from Bacillus SF on alumina for the treatment of textile bleaching effluents. Enzyme and Microbial Technology, 2001, 28, 815-819.	3.2	105
29	An acid-stable laccase from Sclerotium rolfsii with potential for wool dye decolourization. Enzyme and Microbial Technology, 2003, 33, 766-774.	3.2	104
30	Immobilization of proteases with a water solubleâ€“insoluble reversible polymer for treatment of wool. Enzyme and Microbial Technology, 2006, 39, 634-640.	3.2	103
31	Hydrolysis of PET and bis-(benzoyloxyethyl) terephthalate with a new polyesterase fromPenicillium citrinum. Biocatalysis and Biotransformation, 2007, 25, 171-177.	2.0	103
32	Combined ultrasound-laccase assisted bleaching of cotton. Ultrasonics Sonochemistry, 2007, 14, 350-354.	8.2	101
33	Wound dressings for a proteolytic-rich environment. Applied Microbiology and Biotechnology, 2011, 90, 445-460.	3.6	96
34	Effect of ultrasound parameters for unilamellar liposome preparation. Ultrasonics Sonochemistry, 2010, 17, 628-632.	8.2	91
35	Enzymatic Decolorization of Textile Dyeing Effluents. Textile Reseach Journal, 2000, 70, 409-414.	2.2	90
36	New enzymes with potential for PET surface modification. Biocatalysis and Biotransformation, 2004, 22, 341-346.	2.0	90

#	Article	IF	Citations
37	The Use of Keratin in Biomedical Applications. Current Drug Targets, 2013, 14, 612-619.	2.1	90
38	Stability and decolourization ability of Trametes villosa laccase in liquid ultrasonic fields. Ultrasonics Sonochemistry, 2007, 14, 355-362.	8.2	88
39	Laccases to Improve the Whiteness in a Conventional Bleaching of Cotton. Macromolecular Materials and Engineering, 2003, 288, 807-810.	3.6	84
40	Development and industrialisation of enzymatic shrink-resist process based on modified proteases for wool machine washability. Enzyme and Microbial Technology, 2007, 40, 1656-1661.	3.2	84
41	Effects of Agitation and Endoglucanase Pretreatment on the Hydrolysis of Cotton Fabrics by a Total Cellulase. Textile Reseach Journal, 1996, 66, 287-294.	2.2	81
42	Treatment of wool fibres with subtilisin and subtilisin-PEG. Enzyme and Microbial Technology, 2005, 36, 917-922.	3.2	81
43	Chitosanâ€“lignosulfonates sono-chemically prepared nanoparticles: Characterisation and potential applications. Colloids and Surfaces B: Biointerfaces, 2013, 103, 1-8.	5.0	81
44	Influence of structure on dye degradation with laccase mediator systems. Biocatalysis and Biotransformation, 2004, 22, 315-324.	2.0	80
45	Studies of stabilization of native catalase using additives. Enzyme and Microbial Technology, 2002, 30, 387-391.	3.2	79
46	Folic acid-functionalized human serum albumin nanocapsules for targeted drug delivery to chronically activated macrophages. International Journal of Pharmaceutics, 2012, 427, 460-466.	5.2	77
47	Predicting Dye Biodegradation from Redox Potentials. Biotechnology Progress, 2004, 20, 1588-1592.	2.6	76
48	Laccase immobilization on enzymatically functionalized polyamide 6,6 fibres. Enzyme and Microbial Technology, 2007, 41, 867-875.	3.2	76
49	Indigo Backstaining During Cellulase Washing. Textile Reseach Journal, 1998, 68, 398-401.	2.2	75
50	Environmentally friendly bleaching of cotton using laccases. Environmental Chemistry Letters, 2005, 3, 66-69.	16.2	74
51	Biotransformation of phenolics with laccase containing bacterial spores. Environmental Chemistry Letters, 2005, 3, 74-77.	16.2	71
52	Nitrile Hydratase and Amidase from Rhodococcus rhodochrous Hydrolyze Acrylic Fibers and Granular Polyacrylonitriles. Applied and Environmental Microbiology, 2000, 66, 1634-1638.	3.1	70
53	A novel metalloprotease from Bacillus cereus for protein fibre processing. Enzyme and Microbial Technology, 2007, 40, 1772-1781.	3.2	66
54	Antimicrobial and antioxidant linen via laccase-assisted grafting. Reactive and Functional Polymers, 2011, 71, 713-720.	4.1	66

#	Article	IF	Citations
55	Thermo-alkali-stable catalases from newly isolated Bacillus sp. for the treatment and recycling of textile bleaching effluents. Journal of Biotechnology, 2001, 89, 147-153.	3.8	64
56	Effect of ultrasound on protein functionality. Ultrasonics Sonochemistry, 2021, 76, 105653.	8.2	64
57	Enzymatic hydrolysis of PTT polymers and oligomers. Journal of Biotechnology, 2008, 135, 45-51.	3.8	63
58	Effects of agitation level on the adsorption, desorption, and activities on cotton fabrics of full length and core domains of EGV (Humicola insolens) and CenA (Cellulomonas fimi). Enzyme and Microbial Technology, 2000, 27, 325-329.	3.2	60
59	Influence of mechanical agitation on cutinases and protease activity towards polyamide substrates. Enzyme and Microbial Technology, 2007, 40, 1678-1685.	3.2	56
60	Laccases for enzymatic colouration of unbleached cotton. Enzyme and Microbial Technology, 2007, 40, 1788-1793.	3.2	55
61	Ultrasound intensification suppresses the need of methanol excess during the biodiesel production with Lipozyme TL-IM. Ultrasonics Sonochemistry, 2015, 27, 530-535.	8.2	55
62	Laccase-catalysed proteinâ€“flavonoid conjugates for flax fibre modification. Applied Microbiology and Biotechnology, 2012, 93, 585-600.	3.6	54
63	Hydrolysis of Cotton Cellulose by Engineered Cellulases from Trichoderma reesei. Textile Reseach Journal, 1998, 68, 273-280.	2.2	52
64	Polymerization study of the aromatic amines generated by the biodegradation of azo dyes using the laccase enzyme. Enzyme and Microbial Technology, 2010, 46, 360-365.	3.2	52
65	Ultrasound enhanced laccase applications. Green Chemistry, 2015, 17, 1362-1374.	9.0	52
66	Effects of temperature on the cellulose binding ability of cellulase enzymes. Journal of Molecular Catalysis B: Enzymatic, 1999, 7, 233-239.	1.8	51
67	Effect of Some Process Parameters in Enzymatic Dyeing of Wool. Applied Biochemistry and Biotechnology, 2003, 111, 1-14.	2.9	51
68	Laccase-catalyzed decolorization of the synthetic azo-dye diamond black PV 200 and of some structurally related derivatives. Biocatalysis and Biotransformation, 2004, 22, 331-339.	2.0	50
69	Biological Coloration of Flax Fabrics with Flavonoids using Laccase fromTrametes hirsuta. Engineering in Life Sciences, 2008, 8, 324-330.	3.6	50
70	â€œIn Situâ€•Enzymatically Prepared Polymers for Wool Coloration. Macromolecular Materials and Engineering, 2001, 286, 691.	3.6	49
71	Effect of the agitation on the adsorption and hydrolytic efficiency of cutinases on polyethylene terephthalate fibres. Enzyme and Microbial Technology, 2007, 40, 1801-1805.	3.2	48
72	Expression system of CotAâ€laccase for directed evolution and highâ€throughput screenings for the oxidation of highâ€redox potential dyes. Biotechnology Journal, 2009, 4, 558-563.	3.5	48

#	Article	IF	Citations
73	On the Routines of Wild-Type Silk Fibroin Processing Toward Silk-Inspired Materials: A Review. Macromolecular Materials and Engineering, 2015, 300, 1199-1216.	3.6	47
74	Azo Reductase Activity of Intact Saccharomyces cerevisiae Cells Is Dependent on the Fre1p Component of Plasma Membrane Ferric Reductase. Applied and Environmental Microbiology, 2005, 71, 3882-3888.	3.1	46
75	A novel aryl acylamidase from Nocardia farcinica hydrolyses polyamide. Biotechnology and Bioengineering, 2009, 102, 1003-1011.	3.3	46
76	Characterization of Thermobifida fusca Cutinase-Carbohydrate-Binding Module Fusion Proteins and Their Potential Application in Bioscouring. Applied and Environmental Microbiology, 2010, 76, 6870-6876.	3.1	46
77	Sonoproduction of Liposomes and Protein Particles as Templates for Delivery Purposes. Biomacromolecules, 2011, 12, 3353-3368.	5.4	46
78	Enzymatic polymerization on the surface of functionalized cellulose fibers. Enzyme and Microbial Technology, 2007, 40, 1782-1787.	3.2	45
79	An immobilised catalase peroxidase from the alkalothermophilic Bacillus SF for the treatment of textile-bleaching effluents. Applied Microbiology and Biotechnology, 2002, 60, 313-319.	3.6	44
80	Polyoxometalate/laccase-mediated oxidative polymerization of catechol for textile dyeing. Applied Microbiology and Biotechnology, 2011, 89, 981-987.	3.6	44
81	Ultrasound enhances lipase-catalyzed synthesis of poly (ethylene glutarate). Ultrasonics Sonochemistry, 2016, 31, 506-511.	8.2	44
82	Influence of Cellulases on Indigo Backstaining. Textile Reseach Journal, 2000, 70, 628-632.	2.2	43
83	Enzymatic removal of cellulose from cotton/polyester fabric blends. Cellulose, 2006, 13, 611-618.	4.9	43
84	Hydrophobic surface functionalization of lignocellulosic jute fabrics by enzymatic grafting of octadecylamine. International Journal of Biological Macromolecules, 2015, 79, 353-362.	7.5	42
85	Optimisation of a serine protease coupling to Eudragit S-100 by experimental design techniques. Journal of Chemical Technology and Biotechnology, 2006, 81, 8-16.	3.2	41
86	Laccase kinetics of degradation and coupling reactions. Journal of Molecular Catalysis B: Enzymatic, 2005, 33, 23-28.	1.8	40
87	Insights on the Mechanism of Formation of Protein Microspheres in a Biphasic System. Molecular Pharmaceutics, 2012, 9, 3079-3088.	4.6	40
88	Enzymatic Treatment of Lyocellâ€"Clarification of Depilling Mechanisms. Textile Reseach Journal, 2000, 70, 696-699.	2.2	39
89	Purification and mechanistic characterisation of two polygalacturonases from Sclerotium rolfsii. Enzyme and Microbial Technology, 2007, 40, 1739-1747.	3.2	38
90	Ultrasonic pilot-scale reactor for enzymatic bleaching of cotton fabrics. Ultrasonics Sonochemistry, 2014, 21, 1535-1543.	8.2	38

#	Article	IF	Citations
91	Indigo-Cellulase Interactions. Textile Reseach Journal, 2000, 70, 532-536.	2.2	37
92	Enzymatic processing of protein-based fibers. Applied Microbiology and Biotechnology, 2015, 99, 10387-10397.	3.6	37
93	Implementation of batchwise bioscouring of cotton knits. Biocatalysis and Biotransformation, 2004, 22, 375-382.	2.0	36
94	Biotechnology in the textile industryâ€"perspectives for the new millennium. Journal of Biotechnology, 2001, 89, 89-90.	3.8	35
95	Monitoring biotransformations in polyamide fibres. Biocatalysis and Biotransformation, 2004, 22, 357-360.	2.0	35
96	Enzymatic reduction and oxidation of fibre-bound azo-dyes. Enzyme and Microbial Technology, 2007, 40, 1732-1738.	3.2	35
97	Enzymatic reduction of azo and indigoid compounds. Applied Microbiology and Biotechnology, 2007, 77, 321-327.	3.6	35
98	Encapsulation of RNA Molecules in BSA Microspheres and Internalization into Trypanosoma Brucei Parasites and Human U2OS Cancer Cells. Advanced Functional Materials, 2011, 21, 3659-3666.	14.9	35
99	New Enzyme-based Process Direction to Prevent Wool Shrinking without Substantial Tensile Strength Loss. Biotechnology Letters, 2006, 28, 711-716.	2.2	34
100	Proteolytic Enzyme Engineering: A Tool for Wool. Biomacromolecules, 2009, 10, 1655-1661.	5.4	34
101	Fragrance release profile from sonochemically prepared protein microsphere containers. Ultrasonics Sonochemistry, 2012, 19, 858-863.	8.2	34
102	Monitoring biotransformations in polyesters. Biocatalysis and Biotransformation, 2004, 22, 353-356.	2.0	33
103	Using a nitrilase for the surface modification of acrylic fibres. Biotechnology Journal, 2007, 2, 353-360.	3.5	33
104	The effect of cellulase treatment in textile washing processes. Coloration Technology, 2008, 113, 218-222.	0.1	33
105	Characterisation of enzymatically oxidised lignosulfonates and their application on lignocellulosic fabrics. Polymer International, 2009, 58, 863-868.	3.1	33
106	Influence of organic solvents on cutinase stability and accessibility to polyamide fibers. Journal of Polymer Science Part A, 2005, 43, 2749-2753.	2.3	32
107	Interactions of cotton with CBD peptides. Enzyme and Microbial Technology, 1999, 25, 639-643.	3.2	31
108	Recycling of textile bleaching effluents for dyeing using immobilized catalase. Biotechnology Letters, 2002, 24, 173-176.	2.2	31

#	Article	IF	Citations
109	Protein Matrices for Improved Wound Healing: Elastase Inhibition by a Synthetic Peptide Model. Biomacromolecules, 2010, 11, 2213-2220.	5.4	31
110	Sonochemical and hydrodynamic cavitation reactors for laccase/hydrogen peroxide cotton bleaching. Ultrasonics Sonochemistry, 2014, 21, 774-781.	8.2	31
111	Enzymatic colouration with laccase and peroxidases: Recent progress. Biocatalysis and Biotransformation, 2012, 30, 125-140.	2.0	30
112	Protein microspheres as suitable devices for piroxicam release. Colloids and Surfaces B: Biointerfaces, 2012, 92, 277-285.	5.0	30
113	Catalysis and processing. , 2003, , 86-119.		29
114	Bio-processing of bamboo fibres for textile applications: a mini review. Biocatalysis and Biotransformation, 2012, 30, 141-153.	2.0	29
115	Sonochemical Coating of Cotton and Polyester Fabrics with â€œAntibacterialâ€•BSA and Casein Spheres. Chemistry - A European Journal, 2012, 18, 365-369.	3.3	29
116	Lipase-ultrasound assisted synthesis of polyesters. Ultrasonics Sonochemistry, 2017, 38, 496-502.	8.2	29
117	In vitro and computational studies of transdermal perfusion of nanoformulations containing a large molecular weight protein. Colloids and Surfaces B: Biointerfaces, 2013, 108, 271-278.	5.0	27
118	Detection of human neutrophil elastase (HNE) on wound dressings as marker of inflammation. Applied Microbiology and Biotechnology, 2017, 101, 1443-1454.	3.6	27
119	Processing Textile Fibers with Enzymes: An Overview. ACS Symposium Series, 1998, , 180-189.	0.5	26
120	Surface modification of polyacrylonitrile with nitrile hydratase and amidase fromAgrobacterium tumefaciens. Biocatalysis and Biotransformation, 2006, 24, 419-425.	2.0	26
121	Restricting detergent protease action to surface of protein fibres by chemical modification. Applied Microbiology and Biotechnology, 2006, 72, 738-744.	3.6	26
122	Protein disulphide isomerase-mediated grafting of cysteine-containing peptides onto over-bleached hair. Biocatalysis and Biotransformation, 2012, 30, 10-19.	2.0	26
123	Functionalization of gauzes with liposomes entrapping an anti-inflammatory drug: A strategy to improve wound healing. Reactive and Functional Polymers, 2013, 73, 1328-1334.	4.1	26
124	Liposome and protein based stealth nanoparticles. Faraday Discussions, 2013, 166, 417.	3.2	26
125	Size controlled protein nanoemulsions for active targeting of folate receptor positive cells. Colloids and Surfaces B: Biointerfaces, 2015, 135, 90-98.	5.0	26
126	Bio-coloration of bacterial cellulose assisted by immobilized laccase. AMB Express, 2018, 8, 19.	3.0	26

#	Article	IF	Citations
127	Indigo Degradation with Laccases from Polyporus sp. and Sclerotium rolfsii. Textile Reseach Journal, 2001, 71, 420-424.	2.2	25
128	Incorporation of peptides in phospholipid aggregates using ultrasound. Ultrasonics Sonochemistry, 2008, 15, 1026-1032.	8.2	24
129	In situ laccaseâ€assisted overdyeing of denim using flavonoids. Biotechnology Journal, 2011, 6, 1272-1279.	3.5	24
130	Enzymatic surface hydrolysis of PET enhances bonding in PVC coating. Biocatalysis and Biotransformation, 2008, 26, 365-370.	2.0	23
131	Modulating antioxidant activity and the controlled release capability of laccase mediated catechin grafting of chitosan. Process Biochemistry, 2017, 59, 65-76.	3.7	23
132	The effect of high-energy environments on the structure of laccase-polymerized poly(catechol). Ultrasonics Sonochemistry, 2018, 48, 275-280.	8.2	23
133	Phosphorylation of Cotton Cellulose with Baker's Yeast Hexokinase. Macromolecular Rapid Communications, 2002, 23, 962-964.	3.9	22
134	The effect of additives and mechanical agitation in surface modification of acrylic fibres by cutinase and esterase. Biotechnology Journal, 2006, 1, 842-849.	3.5	22
135	Design of Novel BSA/Hyaluronic Acid Nanodispersions for Transdermal Pharma Purposes. Molecular Pharmaceutics, 2014, 11, 1479-1488.	4.6	22
136	Ultrasound-assisted lipase catalyzed hydrolysis of aspirin methyl ester. Ultrasonics Sonochemistry, 2018, 40, 587-593.	8.2	22
137	Zein impart hydrophobic and antimicrobial properties to cotton textiles. Reactive and Functional Polymers, 2020, 154, 104664.	4.1	22
138	Polyoxometalates as mediators in the laccase catalyzed delignification. Journal of Molecular Catalysis B: Enzymatic, 2001, 16, 131-140.	1.8	21
139	Surface hydrolysis of polyamide with a new polyamidase fromBeauveriabrongniartii. Biocatalysis and Biotransformation, 2008, 26, 371-377.	2.0	21
140	Microspheres of Mixed Proteins. Chemistry - A European Journal, 2010, 16, 2108-2114.	3.3	21
141	Functionalization of cellulose acetate fibers with engineered cutinases. Biotechnology Progress, 2010, 26, 636-643.	2.6	21
142	Ultrasound-Assisted Encapsulation of Sacha Inchi (Plukenetia volubilis Linneo.) Oil in Alginate-Chitosan Nanoparticles. Polymers, 2019, 11, 1245.	4.5	21
143	Ohmic heating as an innovative approach for the production of keratin films. International Journal of Biological Macromolecules, 2020, 150, 671-680.	7.5	21
144	Biotransformations in synthetic fibres. Biocatalysis and Biotransformation, 2008, 26, 350-356.	2.0	20

#	Article	IF	Citations
145	In vivo confocal Raman spectroscopy and molecular dynamics analysis of penetration of retinyl acetate into stratum corneum. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 174, 279-285.	3.9	20
146	PEGylation Greatly Enhances Laccase Polymerase Activity. ChemCatChem, 2017, 9, 3888-3894.	3.7	20
147	Polymeric Electrospun Fibrous Dressings for Topical Co-delivery of Acyclovir and Omega-3 Fatty Acids. Frontiers in Bioengineering and Biotechnology, 2019, 7, 390.	4.1	20
148	Stratum corneum lipid matrix with unusual packing: A molecular dynamics study. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110928.	5.0	20
149	A new cuticle scale hydrolysing protease from Beauveria brongniartii. Biotechnology Letters, 2006, 28, 703-710.	2.2	19
150	Detergent Formulations for Wool Domestic Washings Containing Immobilized Enzymes. Biotechnology Letters, 2006, 28, 725-731.	2.2	19
151	Staining of wool using the reaction products of ABTS oxidation by Laccase: Synergetic effects of ultrasound and cyclic voltammetry. Ultrasonics Sonochemistry, 2007, 14, 363-367.	8.2	19
152	Conductive Cotton by In Situ Laccase-Polymerization of Aniline. Polymers, 2018, 10, 1023.	4.5	19
153	Exploring PEGylated and immobilized laccases for catechol polymerization. AMB Express, 2018, 8, 134.	3.0	19
154	Effect of temperature and bath composition on the dyeing of cotton with catalase-treated bleaching effluent. Coloration Technology, 2001, 117, 166-170.	1.5	18
155	Inâ€situ Enzymatic Generation of Hydrogen Peroxide for Bleaching Purposes. Engineering in Life Sciences, 2008, 8, 315-323.	3.6	18
156	The effects of solvent composition on the affinity of a peptide towards hair keratin: experimental and molecular dynamics data. RSC Advances, 2015, 5, 12365-12371.	3.6	18
157	Protein Formulations for Emulsions and Solid-in-Oil Dispersions. Trends in Biotechnology, 2016, 34, 496-505.	9.3	18
158	Functionalization of Bacterial Cellulose Nonwoven by Poly(fluorophenol) to Improve Its Hydrophobicity and Durability. Frontiers in Bioengineering and Biotechnology, 2019, 7, 332.	4.1	18
159	Peptideâ€"protein interactions within human hair keratins. International Journal of Biological Macromolecules, 2017, 101, 805-814.	7.5	17
160	Enzymatic modification of jute fabrics for enhancing the reinforcement in jute/PP composites. Journal of Thermoplastic Composite Materials, 2018, 31, 483-499.	4.2	17
161	OBP fused with cell-penetrating peptides promotes liposomal transduction. Colloids and Surfaces B: Biointerfaces, 2018, 161, 645-653.	5.0	17
162	Enzymatic polymerization of catechol under high-pressure homogenization for the green coloration of textiles. Journal of Cleaner Production, 2018, 202, 792-798.	9.3	17

#	Article	IF	Citations
163	Treatment of cotton fabrics with purified Trichoderma reesei cellulases. Coloration Technology, 2008, 114, 216-220.	0.1	16
164	Proteinaceous microspheres for targeted RNA delivery prepared by an ultrasonic emulsification method. Journal of Materials Chemistry B, 2013, 1, 82-90.	5.8	16
165	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
166	Enzymatic synthesis of poly(catechin)-antibiotic conjugates: an antimicrobial approach for indwelling catheters. Applied Microbiology and Biotechnology, 2015, 99, 637-651.	3.6	16
167	Release of Fragrances from Cotton Functionalized with Carbohydrate-Binding Module Proteins. ACS Applied Materials & Interfaces, 2019, 11, 28499-28506.	8.0	16
168	Laccase-catalyzed cross-linking of BSA mediated by tyrosine. International Journal of Biological Macromolecules, 2021, 166, 798-805.	7.5	16
169	Enzymatic synthesis of Tinuvin. Enzyme and Microbial Technology, 2007, 40, 1748-1752.	3.2	15
170	Bamboo fibre processing: insights into hemicellulase and cellulase substrate accessibility. Biocatalysis and Biotransformation, 2012, 30, 27-37.	2.0	15
171	HSA nanocapsules functionalized with monoclonal antibodies for targeted drug delivery. International Journal of Pharmaceutics, 2013, 458, 1-8.	5.2	15
172	Biotechnology of functional proteins and peptides for hair cosmetic formulations. Trends in Biotechnology, 2022, 40, 591-605.	9.3	15
173	Possibilities for Recycling Cellulases After Use in Cotton Processing: Part I: Effects of End-Product Inhibition, Thermal and Mechanical Deactivation, and Cellulase Depletion by Adsorption. Applied Biochemistry and Biotechnology, 2002, 101, 61-76.	2.9	13
174	Biodegradable Materials Based on Silk Fibroin and Keratin. Biomacromolecules, 2009, 10, 1019-1019.	5.4	13
175	Tailoring elastase inhibition with synthetic peptides. European Journal of Pharmacology, 2011, 666, 53-60.	3.5	13
176	Molecular modeling of hair keratin/peptide complex: Using MMâ€PBSA calculations to describe experimental binding results. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1409-1417.	2.6	13
177	Insights on the mechanical behavior of keratin fibrils. International Journal of Biological Macromolecules, 2016, 89, 477-483.	7.5	13
178	Specificities of a chemically modified laccase from Trametes hirsuta on soluble and cellulose-bound substrates. Biotechnology Letters, 2006, 28, 741-747.	2.2	12
179	Attaching Different Kinds of Proteinaceous Nanospheres to a Variety of Fabrics Using Ultrasound Radiation. Israel Journal of Chemistry, 2010, 50, 524-529.	2.3	12
180	Hydrolysis of Cutin by PETâ€Hydrolases. Macromolecular Symposia, 2010, 296, 342-346.	0.7	12

#	Article	IF	Citations
181	Biology of Human Hair: Know Your Hair to Control It. Advances in Biochemical Engineering/Biotechnology, 2010, 125, 121-143.	1.1	12
182	Releasing Dye Encapsulated in Proteinaceous Microspheres on Conductive Fabrics by Electric Current. ACS Applied Materials & Interfaces, 2012, 4, 2926-2930.	8.0	12
183	Characterization of potential elastase inhibitor-peptides regulated by a molecular switch for wound dressings applications. Enzyme and Microbial Technology, 2012, 50, 107-114.	3.2	12
184	Laccase coating of catheters with poly(catechin) for biofilm reduction. Biocatalysis and Biotransformation, 2014, 32, 2-12.	2.0	12
185	Stabilization of enzymes in micro-emulsions for ultrasound processes. Biochemical Engineering Journal, 2015, 93, 115-118.	3.6	12
186	Jute hydrophobization via laccase-catalyzed grafting of fluorophenol and fluoroamine. RSC Advances, 2016, 6, 90427-90434.	3.6	12
187	â€œIn-situâ€•lipase-catalyzed cotton coating with polyesters from ethylene glycol and glycerol. Process Biochemistry, 2018, 66, 82-88.	3.7	12
188	Internalization of Methotrexate Conjugates by Folate Receptor-Î±. Biochemistry, 2018, 57, 6780-6786.	2.5	12
189	Ultrasound-assisted extraction of hemicellulose and phenolic compounds from bamboo bast fiber powder. PLoS ONE, 2018, 13, e0197537.	2.5	12
190	Fusion proteins with chromogenic and keratin binding modules. Scientific Reports, 2019, 9, 14044.	3.3	12
191	Coloured and low conductive fabrics by in situ laccase-catalysed polymerization. Process Biochemistry, 2019, 77, 77-84.	3.7	12
192	Biotechnological applications of mammalian odorant-binding proteins. Critical Reviews in Biotechnology, 2021, 41, 441-455.	9.0	12
193	Desorption of cellulases from cotton powder. Biotechnology Letters, 2001, 23, 1445-1448.	2.2	11
194	Protein disulphide isomerase-assisted functionalization of keratin-based matrices. Applied Microbiology and Biotechnology, 2011, 90, 1311-1321.	3.6	11
195	Woundâ€healing evaluation of entrapped active agents into protein microspheres over cellulosic gauzes. Biotechnology Journal, 2012, 7, 1376-1385.	3.5	11
196	Developing scaffolds for tissue engineering using the Ca²⁺â€induced cold gelation by an experimental design approach. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 2269-2278.	3.4	11
197	Production of heterologous cutinases by E. coli and improved enzyme formulation for application on plastic degradation. Electronic Journal of Biotechnology, 2013, 16, .	2.2	11
198	Catalytic Activation of Esterases by PEGylation for Polyester Synthesis. ChemCatChem, 2019, 11, 2490-2499.	3.7	11

#	Article	IF	Citations
199	Changes in the bacterial community structure and diversity during bamboo retting. Biotechnology Journal, 2011, 6, 1262-1271.	3.5	10
200	Sonochemical Proteinaceous Microspheres for Wound Healing. Advances in Experimental Medicine and Biology, 2012, 733, 155-164.	1.6	10
201	The activity of LE10 peptide on biological membranes using molecular dynamics, in vitro and in vivo studies. Colloids and Surfaces B: Biointerfaces, 2013, 106, 240-247.	5.0	10
202	Nonionic surfactants and dispersants for biopolishing and stonewashing withHypocrea jecorinacellulases. Coloration Technology, 2013, 129, 49-54.	1.5	10
203	Phosphorylated Silk Fibroin Matrix for Methotrexate Release. Molecular Pharmaceutics, 2015, 12, 75-86.	4.6	10
204	Albumin/asparaginase capsules prepared by ultrasound to retain ammonia. Applied Microbiology and Biotechnology, 2016, 100, 9499-9508.	3.6	10
205	Enzymatic phosphorylation of hair keratin enhances fast adsorption of cationic moieties. International Journal of Biological Macromolecules, 2016, 85, 476-486.	7.5	10
206	Effect of purifiedTrichoderma reesei cellulases on formation of cotton powder from cotton fabric. Journal of Applied Polymer Science, 2003, 90, 1917-1922.	2.6	9
207	Cotton fabric: A natural matrix suitable for controlled release systems. Enzyme and Microbial Technology, 2007, 40, 1646-1650.	3.2	9
208	Influence of secretory leukocyte protease inhibitorâ€based peptides on elastase activity and their incorporation in hyaluronic acid hydrogels for chronic wound therapy. Biopolymers, 2012, 98, 576-590.	2.4	9
209	Direct enzymatic esterification of cotton and Avicel with wild-type and engineered cutinases. Cellulose, 2013, 20, 409-416.	4.9	9
210	BSA/HSA ratio modulates the properties of Ca2+-induced cold gelation scaffolds. International Journal of Biological Macromolecules, 2016, 89, 535-544.	7.5	9
211	Polymers from Bamboo Extracts Produced by Laccase. Polymers, 2018, 10, 1141.	4.5	9
212	Lipases to Improve the Performance of Formaldehyde-Free Durable Press Finished Cotton Fabrics. Macromolecular Materials and Engineering, 2002, 287, 462.	3.6	8
213	Possibilities for Recycling Cellulases After Use in Cotton Processing: Part II: Separation of Cellulases from Reaction Products and Released Dyestuffs by Ultrafiltration. Applied Biochemistry and Biotechnology, 2002, 101, 77-92.	2.9	8
214	Bioelectrochemical investigations of aryl-alcohol oxidase from Pleurotus eryngii. Journal of Electroanalytical Chemistry, 2008, 618, 83-86.	3.8	8
215	Effects of adsorption properties and mechanical agitation of two detergent cellulases towards cotton cellulose. Biocatalysis and Biotransformation, 2012, 30, 260-271.	2.0	8
216	Phosphorylation of silk fibroins improves the cytocompatibility of silk fibroin derived materials: A platform for the production of tuneable material. Biotechnology Journal, 2014, 9, 1267-1278.	3.5	8

#	Article	IF	Citations
217	A biologically active delivery material with dried-rehydrated vesicles containing the anti-inflammatory diclofenac for potential wound healing. Journal of Liposome Research, 2016, 26, 269-275.	3.3	8
218	Enzymatic coating of jute fabrics for enhancing anti-ultraviolent properties via in-situ polymerization of polyhydric phenols. Journal of Industrial Textiles, 2016, 46, 160-176.	2.4	8
219	Permeation of skin with (C₆₀) fullerene dispersions. Engineering in Life Sciences, 2017, 17, 732-738.	3.6	8
220	Enzymatic coating of cotton with poly (ethylene glutarate). Process Biochemistry, 2017, 59, 91-96.	3.7	8
221	Two Engineered OBPs with opposite temperature-dependent affinities towards 1-aminoanthracene. Scientific Reports, 2018, 8, 14844.	3.3	8
222	Strategies towards the Functionalization of Subtilisinâ€‰‰E from Bacillus subtilis for Wool Finishing Applications. Engineering in Life Sciences, 2008, 8, 238-249.	3.6	7
223	Enzymatic Treatments to Improve Mechanical Properties and Surface Hydrophobicity of Jute Fiber Membranes. BioResources, 2016, 11, .	1.0	7
224	Crystallin Fusion Proteins Improve the Thermal Properties of Hair. Frontiers in Bioengineering and Biotechnology, 2019, 7, 298.	4.1	7
225	Production of antimicrobial powders of guaiacol oligomers by a laccase-catalyzed synthesis reaction. Process Biochemistry, 2021, 111, 213-220.	3.7	7
226	Grafting of Poly(tyrosine) by Laccase Improves the Tensile Strength and Anti-shrinkage of Wool. Journal of Natural Fibers, 2022, 19, 10979-10991.	3.1	7
227	Satureja montana Essential Oil, Zein Nanoparticles and Their Combination as a Biocontrol Strategy to Reduce Bacterial Spot Disease on Tomato Plants. Horticulturae, 2021, 7, 584.	2.8	7
228	Molecular recognition of esterase plays a major role on the removal of fatty soils during detergency. Journal of Biotechnology, 2012, 161, 228-234.	3.8	6
229	NMR and molecular modelling studies on elastase inhibitor-peptides for wound management. Reactive and Functional Polymers, 2013, 73, 1357-1365.	4.1	6
230	Laccaseâ€catalyzed synthesis of conducting polyanilineâ€lignosulfonate composite. Journal of Applied Polymer Science, 2016, 133, .	2.6	6
231	Proteinâ€based nanoformulations for Î±â€tocopherol encapsulation. Engineering in Life Sciences, 2017, 17, 523-527.	3.6	6
232	Cellulases in the textile industryâ€”an overview. Carbohydrate Polymers, 1997, 34, 423.	10.2	5
233	Proteases to Improve the Mechanical Characteristics of Durable Press Finished Cotton Fabrics. Macromolecular Materials and Engineering, 2003, 288, 71-75.	3.6	5
234	Advances in biotechnology for fibre processing. Biotechnology Letters, 2006, 28, 679-680.	2.2	5

#	Article	IF	Citations
235	Oil-based cyclo-oligosaccharide nanodevices for drug encapsulation. Colloids and Surfaces B: Biointerfaces, 2017, 159, 259-267.	5.0	5
236	1-Aminoanthracene Transduction into Liposomes Driven by Odorant-Binding Protein Proximity. ACS Applied Materials & Interfaces, 2018, 10, 27531-27539.	8.0	5
237	Ohmic heating as a new tool for protein scaffold engineering. Materials Science and Engineering C, 2021, 120, 111784.	7.3	5
238	Proteins as Hair Styling Agents. Applied Sciences (Switzerland), 2021, 11, 4245.	2.5	5
239	Biosensors Based on Laccase for Detection of Commercially Reactive Dyes. Analytical Letters, 2010, 43, 1126-1131.	1.8	4
240	Protein disulphide isomerase-assisted functionalization of proteinaceous substrates. Biocatalysis and Biotransformation, 2012, 30, 111-124.	2.0	4
241	Treatment of cotton with an alkaline Bacillus spp cellulase: Activity towards crystalline cellulose. Biotechnology Journal, 2012, 7, 275-283.	3.5	4
242	Kinetics of direct and substrate-mediated electron transfer of versatile peroxidase-modified graphite electrodes. Journal of Electroanalytical Chemistry, 2005, 580, 35-40.	3.8	3
243	Decolourisation of a synthetic textile effluent using a bacterial consortium. Biotechnology Journal, 2007, 2, 370-373.	3.5	3
244	Protein disulphide isomerase-induced refolding of sonochemically prepared Ribonuclease A microspheres. Journal of Biotechnology, 2012, 159, 78-82.	3.8	3
245	Enzyme stabilization for biotechnological applications. , 2019, , 107-131.		3
246	Hair resistance to mechanical wear. Wear, 2021, 470-471, 203612.	3.1	3
247	Changing the shape of wool yarns via laccase-mediated grafting of tyrosine. Journal of Biotechnology, 2021, 339, 73-80.	3.8	3
248	Surface Modification of Cellulose Fibers with Hydrolases and Kinases. , 2006, , 159-180.		3
249	Peptide structure: Its effect on penetration into human hair. Journal of Cosmetic Science, 2007, 58, 339-46.	0.1	3
250	New Developments of Enzymatic Treatments on Cellulosic Fibers. ACS Symposium Series, 2007, , 186-192.	0.5	2
251	Characterization of ligno-cellulosic materials bleached with oxo-diperoxo-molybdates. Carbohydrate Polymers, 2013, 98, 490-494.	10.2	2
252	Sonochemically-induced spectral shift as a probe of green fluorescent protein release from nano capsules. RSC Advances, 2014, 4, 10303-10309.	3.6	2

#	Article	IF	Citations
253	Î±-Chymotrypsin catalysed oligopeptide synthesis for hair modelling. Journal of Cleaner Production, 2019, 237, 117743.	9.3	2
254	Design of a chromogenic substrate for elastase based on split GFP systemâ€"Proof of concept for colour switch sensors. Biotechnology Reports (Amsterdam, Netherlands), 2019, 22, e00324.	4.4	2
255	Protein interactions in enzymatic processes in textiles. Electronic Journal of Biotechnology, 2003, 6, .	2.2	2
256	Antimicrobial Properties of Composites of Chitosan-Silver Doped Zeolites. Journal of Nanoscience and Nanotechnology, 2020, 20, 6295-6304.	0.9	2
257	Enzymes in fibre processing. Biocatalysis and Biotransformation, 2004, 22, 297-297.	2.0	1
258	MALDI-TOF Mass Spectrometry in Textile Industry. NATO Science for Peace and Security Series A: Chemistry and Biology, 2008, , 193-203.	0.5	1
259	Decolourization of paprika dye effluent with hydrogen peroxide produced by glucose oxidase. Biocatalysis and Biotransformation, 2012, 30, 255-259.	2.0	1
260	Hydroxylation of polypropylene using the monooxygenase mutant 139-3 fromBacillus megaterium BM3. Biocatalysis and Biotransformation, 2012, 30, 57-62.	2.0	1
261	The Immobilization of Polyethylene Imine Nano and Microspheres on Glass Using High Intensity Ultrasound. International Journal of Applied Ceramic Technology, 2013, 10, E267.	2.1	1
262	USE OF ENZYMES IN TEXTILE PROCESSING - INDIGO BACKSTAINING DURING CELLULASE WASHING. , 1999, , 191-194.		0
263	Dry action of Trichoderma reesei cellulases on cotton fabrics. Coloration Technology, 2000, 116, 121-125.	1.5	0
264	Editorial: Textile biotech. Biotechnology Journal, 2007, 2, 281-281.	3.5	0
265	Textile Biotechnology. Biocatalysis and Biotransformation, 2008, 26, 331-331.	2.0	0
266	Hair Styling Based on Eutectic Formulations with Peptides. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	0