Artur M Cavaco-Paulo

List of Publications by Citations

261 papers	9,553 citations	55 h-index	86 g-index
271 ext. papers	10,491 ext. citations	5 avg, IF	6.22 L-index

#	Paper	IF	Citations
261	Decolorization and detoxification of textile dyes with a laccase from Trametes hirsuta. *Applied and Environmental Microbiology*, **2000**, 66, 3357-62	4.8	579
260	Biodegradable materials based on silk fibroin and keratin. *Biomacromolecules*, **2008**, 9, 1299-305	6.9	281
259	Enzymatic Surface Hydrolysis of PET: Effect of Structural Diversity on Kinetic Properties of Cutinases from Thermobifida. *Macromolecules*, **2011**, 44, 4632-4640	5.5	205
258	Indigo degradation with purified laccases from Trametes hirsuta and Sclerotium rolfsii. *Journal of Biotechnology*, **2001**, 89, 131-9	3.7	194
257	Application of enzymes for textile fibres processing. *Biocatalysis and Biotransformation*, **2008**, 26, 332-349	2.5	188
256	Novel silk fibroin/elastin wound dressings. *Acta Biomaterialia*, **2012**, 8, 3049-60	10.8	185
255	A new alkali-thermostable azoreductase from Bacillus sp. strain SF. *Applied and Environmental Microbiology*, **2004**, 70, 837-44	4.8	177
254	Mechanism of cellulase action in textile processes. *Carbohydrate Polymers*, **1998**, 37, 273-277	10.3	162
253	Enzymes go big: surface hydrolysis and functionalization of synthetic polymers. *Trends in Biotechnology*, **2008**, 26, 32-8	15.1	162
252	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, 207-12	3.7	141
251	Tailoring cutinase activity towards polyethylene terephthalate and polyamide 6,6 fibers. *Journal of Biotechnology*, **2007**, 128, 849-57	3.7	135
250	Bio-preparation of cotton fabrics. *Enzyme and Microbial Technology*, **2001**, 29, 357-362	3.8	127
249	Degradation of azo dyes by Trametes villosa laccase over long periods of oxidative conditions. *Applied and Environmental Microbiology*, **2005**, 71, 6711-8	4.8	125
248	Characterization of azo reduction activity in a novel ascomycete yeast strain. *Applied and Environmental Microbiology*, **2004**, 70, 2279-88	4.8	116
247	Immobilized laccase for decolourization of Reactive Black 5 dyeing effluent. *Biotechnology Letters*, **2003**, 25, 1473-7	3	112
246	Hydrogen peroxide generation with immobilized glucose oxidase for textile bleaching. *Journal of Biotechnology*, **2002**, 93, 87-94	3.7	110
245	Practical insights on enzyme stabilization. *Critical Reviews in Biotechnology*, **2018**, 38, 335-350	9.4	110

244	New model substrates for enzymes hydrolysing polyethyleneterephthalate and polyamide fibres. *Journal of Proteomics*, **2006**, 69, 89-99		108
243	Voltammetric monitoring of laccase-catalysed mediated reactions. *Bioelectrochemistry*, **2002**, 58, 149-56	5.6	99
242	Immobilization of catalases from Bacillus SF on alumina for the treatment of textile bleaching effluents. *Enzyme and Microbial Technology*, **2001**, 28, 815-819	3.8	98
241	Microaerophilic□erobic sequential decolourization/biodegradation of textile azo dyes by a facultative Klebsiella sp. strain VN-31. *Process Biochemistry*, **2009**, 44, 446-452	4.8	95
240	Immobilization of proteases with a water soluble□nsoluble reversible polymer for treatment of wool. *Enzyme and Microbial Technology*, **2006**, 39, 634-640	3.8	93
239	An acid-stable laccase from Sclerotium rolfsii with potential for wool dye decolourization. *Enzyme and Microbial Technology*, **2003**, 33, 766-774	3.8	93
238	Protein micro- and nano-capsules for biomedical applications. *Chemical Society Reviews*, **2014**, 43, 1361-74	58.5	90
237	Engineered Thermobifida fusca cutinase with increased activity on polyester substrates. *Biotechnology Journal*, **2011**, 6, 1230-9	5.6	90
236	Combined ultrasound-laccase assisted bleaching of cotton. *Ultrasonics Sonochemistry*, **2007**, 14, 350-4	8.9	87
235	Polymerization of lignosulfonates by the laccase-HBT (1-hydroxybenzotriazole) system improves dispersibility. *Bioresource Technology*, **2010**, 101, 5054-62	11	85
234	Folate-targeted nanoparticles for rheumatoid arthritis therapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1113-1126	6	84
233	Stability and decolourization ability of Trametes villosa laccase in liquid ultrasonic fields. *Ultrasonics Sonochemistry*, **2007**, 14, 355-62	8.9	84
232	Cutinase□ new tool for biomodification of synthetic fibers. *Journal of Polymer Science Part A*, **2005**, 43, 2448-2450	2.5	84
231	Albumin-Based Nanodevices as Drug Carriers. *Current Pharmaceutical Design*, **2016**, 22, 1371-90	3.3	84
230	Enzymatic Decolorization of Textile Dyeing Effluents. *Textile Reseach Journal*, **2000**, 70, 409-414	1.7	81
229	Laccase: a green catalyst for the biosynthesis of poly-phenols. *Critical Reviews in Biotechnology*, **2018**, 38, 294-307	9.4	80
228	Wound dressings for a proteolytic-rich environment. *Applied Microbiology and Biotechnology*, **2011**, 90, 445-60	5.7	79
227	Hydrolysis of PET and bis-(benzoyloxyethyl) terephthalate with a new polyesterase from Penicillium citrinum. *Biocatalysis and Biotransformation*, **2007**, 25, 171-177	2.5	79

226	New enzymes with potential for PET surface modification. *Biocatalysis and Biotransformation*, **2004**, 22, 341-346	2.5	79
225	Effect of ultrasound parameters for unilamellar liposome preparation. *Ultrasonics Sonochemistry*, **2010**, 17, 628-32	8.9	77
224	The use of keratin in biomedical applications. *Current Drug Targets*, **2013**, 14, 612-9	3	76
223	Treatment of wool fibres with subtilisin and subtilisin-PEG. *Enzyme and Microbial Technology*, **2005**, 36, 917-922	3.8	75
222	Development and industrialisation of enzymatic shrink-resist process based on modified proteases for wool machine washability. *Enzyme and Microbial Technology*, **2007**, 40, 1656-1661	3.8	73
221	Predicting dye biodegradation from redox potentials. *Biotechnology Progress*, **2004**, 20, 1588-92	2.8	71
220	Influence of structure on dye degradation with laccase mediator systems. *Biocatalysis and Biotransformation*, **2004**, 22, 315-324	2.5	70
219	Laccases to Improve the Whiteness in a Conventional Bleaching of Cotton. *Macromolecular Materials and Engineering*, **2003**, 288, 807-810	3.9	70
218	Laccase immobilization on enzymatically functionalized polyamide 6,6 fibres. *Enzyme and Microbial Technology*, **2007**, 41, 867-875	3.8	69
217	Studies of stabilization of native catalase using additives. *Enzyme and Microbial Technology*, **2002**, 30, 387-391	3.8	68
216	Effects of Agitation and Endoglucanase Pretreatment on the Hydrolysis of Cotton Fabrics by a Total Cellulase. *Textile Reseach Journal*, **1996**, 66, 287-294	1.7	68
215	Folic acid-functionalized human serum albumin nanocapsules for targeted drug delivery to chronically activated macrophages. *International Journal of Pharmaceutics*, **2012**, 427, 460-6	6.5	66
214	Nitrile hydratase and amidase from Rhodococcus rhodochrous hydrolyze acrylic fibers and granular polyacrylonitriles. *Applied and Environmental Microbiology*, **2000**, 66, 1634-8	4.8	65
213	Antimicrobial and antioxidant linen via laccase-assisted grafting. *Reactive and Functional Polymers*, **2011**, 71, 713-720	4.6	62
212	Chitosan-lignosulfonates sono-chemically prepared nanoparticles: characterisation and potential applications. *Colloids and Surfaces B: Biointerfaces*, **2013**, 103, 1-8	6	61
211	Enzymatic hydrolysis of PTT polymers and oligomers. *Journal of Biotechnology*, **2008**, 135, 45-51	3.7	60
210	A novel metalloprotease from Bacillus cereus for protein fibre processing. *Enzyme and Microbial Technology*, **2007**, 40, 1772-1781	3.8	60
209	Indigo Backstaining During Cellulase Washing. *Textile Reseach Journal*, **1998**, 68, 398-401	1.7	60

208	Environmentally friendly bleaching of cotton using laccases. *Environmental Chemistry Letters*, **2005**, 3, 66-69	13.3	58
207	Biotransformation of phenolics with laccase containing bacterial spores. *Environmental Chemistry Letters*, **2005**, 3, 74-77	13.3	56
206	Thermo-alkali-stable catalases from newly isolated Bacillus sp. for the treatment and recycling of textile bleaching effluents. *Journal of Biotechnology*, **2001**, 89, 147-53	3.7	54
205	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	3.8	52
204	Laccase-catalysed protein-flavonoid conjugates for flax fibre modification. *Applied Microbiology and Biotechnology*, **2012**, 93, 585-600	5.7	50
203	Laccases for enzymatic colouration of unbleached cotton. *Enzyme and Microbial Technology*, **2007**, 40, 1788-1793	3.8	50
202	Ultrasound intensification suppresses the need of methanol excess during the biodiesel production with Lipozyme TL-IM. *Ultrasonics Sonochemistry*, **2015**, 27, 530-535	8.9	48
201	Influence of mechanical agitation on cutinases and protease activity towards polyamide substrates. *Enzyme and Microbial Technology*, **2007**, 40, 1678-1685	3.8	48
200	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	3.8	47
199	Biological Coloration of Flax Fabrics with Flavonoids using Laccase from Trametes hirsuta. *Engineering in Life Sciences*, **2008**, 8, 324-330	3.4	46
198	Effects of temperature on the cellulose binding ability of cellulase enzymes. *Journal of Molecular Catalysis B: Enzymatic*, **1999**, 7, 233-239		46
197	In Situ Enzymatically Prepared Polymers for Wool Coloration. *Macromolecular Materials and Engineering*, **2001**, 286, 691	3.9	45
196	Effect of some process parameters in enzymatic dyeing of wool. *Applied Biochemistry and Biotechnology*, **2003**, 111, 1-13	3.2	44
195	Hydrolysis of Cotton Cellulose by Engineered Cellulases from Trichoderma reesei. *Textile Reseach Journal*, **1998**, 68, 273-280	1.7	44
194	Expression system of CotA-laccase for directed evolution and high-throughput screenings for the oxidation of high-redox potential dyes. *Biotechnology Journal*, **2009**, 4, 558-63	5.6	43
193	Ultrasound enhanced laccase applications. *Green Chemistry*, **2015**, 17, 1362-1374	10	42
192	Effect of the agitation on the adsorption and hydrolytic efficiency of cutinases on polyethylene terephthalate fibres. *Enzyme and Microbial Technology*, **2007**, 40, 1801-1805	3.8	42
191	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	2.5	42

190	An immobilised catalase peroxidase from the alkalothermophilic Bacillus SF for the treatment of textile-bleaching effluents. *Applied Microbiology and Biotechnology*, **2002**, 60, 313-9	5.7	42
189	A novel aryl acylamidase from Nocardia farcinica hydrolyses polyamide. *Biotechnology and Bioengineering*, **2009**, 102, 1003-11	4.9	40
188	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, 3882-8	4.8	40
187	Ultrasound enhances lipase-catalyzed synthesis of poly (ethylene glutarate). *Ultrasonics Sonochemistry*, **2016**, 31, 506-11	8.9	37
186	Enzymatic polymerization on the surface of functionalized cellulose fibers. *Enzyme and Microbial Technology*, **2007**, 40, 1782-1787	3.8	37
185	Optimisation of a serine protease coupling to Eudragit S-100 by experimental design techniques. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 8-16	3.5	37
184	Hydrophobic surface functionalization of lignocellulosic jute fabrics by enzymatic grafting of octadecylamine. *International Journal of Biological Macromolecules*, **2015**, 79, 353-62	7.9	36
183	Insights on the mechanism of formation of protein microspheres in a biphasic system. *Molecular Pharmaceutics*, **2012**, 9, 3079-88	5.6	36
182	Influence of Cellulases on Indigo Backstaining. *Textile Reseach Journal*, **2000**, 70, 628-632	1.7	36
181	Polyoxometalate/laccase-mediated oxidative polymerization of catechol for textile dyeing. *Applied Microbiology and Biotechnology*, **2011**, 89, 981-7	5.7	35
180	Characterization of Thermobifida fusca cutinase-carbohydrate-binding module fusion proteins and their potential application in bioscouring. *Applied and Environmental Microbiology*, **2010**, 76, 6870-6	4.8	35
179	Enzymatic removal of cellulose from cotton/polyester fabric blends. *Cellulose*, **2006**, 13, 611-618	5.5	35
178	Laccase kinetics of degradation and coupling reactions. *Journal of Molecular Catalysis B: Enzymatic*, **2005**, 33, 23-28		34
177	Enzymatic Treatment of Lyocell□Clarification of Depilling Mechanisms. *Textile Reseach Journal*, **2000**, 70, 696-699	1.7	33
176	Fragrance release profile from sonochemically prepared protein microsphere containers. *Ultrasonics Sonochemistry*, **2012**, 19, 858-63	8.9	32
175	Sonoproduction of liposomes and protein particles as templates for delivery purposes. *Biomacromolecules*, **2011**, 12, 3353-68	6.9	32
174	Proteolytic enzyme engineering: a tool for wool. *Biomacromolecules*, **2009**, 10, 1655-61	6.9	32
173	Monitoring biotransformations in polyamide fibres. *Biocatalysis and Biotransformation*, **2004**, 22, 357-360	2.5	32

172	Implementation of batchwise bioscouring of cotton knits. *Biocatalysis and Biotransformation*, **2004**, 22, 375-382	2.5	32
171	Influence of organic solvents on cutinase stability and accessibility to polyamide fibers. *Journal of Polymer Science Part A*, **2005**, 43, 2749-2753	2.5	32
170	Enzymatic processing of protein-based fibers. *Applied Microbiology and Biotechnology*, **2015**, 99, 10387-97	3.7	31
169	Ultrasonic pilot-scale reactor for enzymatic bleaching of cotton fabrics. *Ultrasonics Sonochemistry*, **2014**, 21, 1535-43	8.9	31
168	On the Routines of Wild-Type Silk Fibroin Processing Toward Silk-Inspired Materials: A Review. *Macromolecular Materials and Engineering*, **2015**, 300, 1199-1216	3.9	31
167	Enzymatic reduction and oxidation of fibre-bound azo-dyes. *Enzyme and Microbial Technology*, **2007** , 40, 1732-1738	3.8	31
166	Purification and mechanistic characterisation of two polygalacturonases from Sclerotium rolfsii. *Enzyme and Microbial Technology*, **2007**, 40, 1739-1747	3.8	31
165	Using a nitrilase for the surface modification of acrylic fibres. *Biotechnology Journal*, **2007**, 2, 353-60	5.6	31
164	Indigo-Cellulase Interactions. *Textile Reseach Journal*, **2000**, 70, 532-536	1.7	31
163	Monitoring biotransformations in polyesters. *Biocatalysis and Biotransformation*, **2004**, 22, 353-356	2.5	30
162	Lipase-ultrasound assisted synthesis of polyesters. *Ultrasonics Sonochemistry*, **2017**, 38, 496-502	8.9	28
161	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	15.6	28
160	Protein matrices for improved wound healing: elastase inhibition by a synthetic peptide model. *Biomacromolecules*, **2010**, 11, 2213-20	6.9	28
159	Characterisation of enzymatically oxidised lignosulfonates and their application on lignocellulosic fabrics. *Polymer International*, **2009**, 58, 863-868	3.3	28
158	New enzyme-based process direction to prevent wool shrinking without substantial tensile strength loss. *Biotechnology Letters*, **2006**, 28, 711-6	3	28
157	Sonochemical coating of cotton and polyester fabrics with "antibacterial" BSA and casein spheres. *Chemistry - A European Journal*, **2012**, 18, 365-9	4.8	27
156	Sonochemical and hydrodynamic cavitation reactors for laccase/hydrogen peroxide cotton bleaching. *Ultrasonics Sonochemistry*, **2014**, 21, 774-81	8.9	27
155	Protein microspheres as suitable devices for piroxicam release. *Colloids and Surfaces B: Biointerfaces*, **2012**, 92, 277-85	6	27

154	Enzymatic reduction of azo and indigoid compounds. *Applied Microbiology and Biotechnology*, **2007**, 77, 321-7	5.7	27
153	Recycling of textile bleaching effluents for dyeing using immobilized catalase. *Biotechnology Letters*, **2002**, 24, 173-176	3	27
152	Interactions of cotton with CBD peptides. *Enzyme and Microbial Technology*, **1999**, 25, 639-643	3.8	27
151	Enzymatic colouration with laccase and peroxidases: Recent progress. *Biocatalysis and Biotransformation*, **2012**, 30, 125-140	2.5	26
150	The effect of cellulase treatment in textile washing processes. *Coloration Technology*, **2008**, 113, 218-222		25
149	Restricting detergent protease action to surface of protein fibres by chemical modification. *Applied Microbiology and Biotechnology*, **2006**, 72, 738-44	5.7	25
148	Surface modification of polyacrylonitrile with nitrile hydratase and amidase from Agrobacterium tumefaciens. *Biocatalysis and Biotransformation*, **2006**, 24, 419-425	2.5	25
147	Liposome and protein based stealth nanoparticles. *Faraday Discussions*, **2013**, 166, 417-29	3.6	24
146	Size controlled protein nanoemulsions for active targeting of folate receptor positive cells. *Colloids and Surfaces B: Biointerfaces*, **2015**, 135, 90-98	6	22
145	Bio-coloration of bacterial cellulose assisted by immobilized laccase. *AMB Express*, **2018**, 8, 19	4.1	22
144	In vitro and computational studies of transdermal perfusion of nanoformulations containing a large molecular weight protein. *Colloids and Surfaces B: Biointerfaces*, **2013**, 108, 271-8	6	22
143	Protein disulphide isomerase-mediated grafting of cysteine-containing peptides onto over-bleached hair. *Biocatalysis and Biotransformation*, **2012**, 30, 10-19	2.5	22
142	Enzymatic surface hydrolysis of PET enhances bonding in PVC coating. *Biocatalysis and Biotransformation*, **2008**, 26, 365-370	2.5	22
141	Incorporation of peptides in phospholipid aggregates using ultrasound. *Ultrasonics Sonochemistry*, **2008**, 15, 1026-32	8.9	22
140	Processing Textile Fibers with Enzymes: An Overview. *ACS Symposium Series*, **1998**, 180-189	0.4	22
139	Functionalization of gauzes with liposomes entrapping an anti-inflammatory drug: A strategy to improve wound healing. *Reactive and Functional Polymers*, **2013**, 73, 1328-1334	4.6	21
138	In situ laccase-assisted overdyeing of denim using flavonoids. *Biotechnology Journal*, **2011**, 6, 1272-9	5.6	21
137	Microspheres of mixed proteins. *Chemistry - A European Journal*, **2010**, 16, 2108-14	4.8	21

136	Polyoxometalates as mediators in the laccase catalyzed delignification. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 16, 131-140		20
135	Bio-processing of bamboo fibres for textile applications: a mini review. *Biocatalysis and Biotransformation*, **2012**, 30, 141-153	2.5	19
134	Functionalization of cellulose acetate fibers with engineered cutinases. *Biotechnology Progress*, **2010**, 26, 636-43	2.8	19
133	The effect of additives and mechanical agitation in surface modification of acrylic fibres by cutinase and esterase. *Biotechnology Journal*, **2006**, 1, 842-9	5.6	19
132	Design of novel BSA/hyaluronic acid nanodispersions for transdermal pharma purposes. *Molecular Pharmaceutics*, **2014**, 11, 1479-88	5.6	18
131	Surface hydrolysis of polyamide with a new polyamidase from Beauveria brongniartii. *Biocatalysis and Biotransformation*, **2008**, 26, 371-377	2.5	18
130	Biotransformations in synthetic fibres. *Biocatalysis and Biotransformation*, **2008**, 26, 350-356	2.5	18
129	In-situ Enzymatic Generation of Hydrogen Peroxide for Bleaching Purposes. *Engineering in Life Sciences*, **2008**, 8, 315-323	3.4	18
128	Staining of wool using the reaction products of ABTS oxidation by laccase: synergetic effects of ultrasound and cyclic voltammetry. *Ultrasonics Sonochemistry*, **2007**, 14, 363-7	8.9	17
127	Phosphorylation of Cotton Cellulose with Baker's Yeast Hexokinase. *Macromolecular Rapid Communications*, **2002**, 23, 962-964	4.8	17
126	Effect of temperature and bath composition on the dyeing of cotton with catalase-treated bleaching effluent. *Coloration Technology*, **2001**, 117, 166-170	2	17
125	The effect of high-energy environments on the structure of laccase-polymerized poly(catechol). *Ultrasonics Sonochemistry*, **2018**, 48, 275-280	8.9	17
124	Detergent formulations for wool domestic washings containing immobilized enzymes. *Biotechnology Letters*, **2006**, 28, 725-31	3	16
123	Indigo Degradation with Laccases from Polyporus sp. and Sclerotium rolfsii. *Textile Reseach Journal*, **2001**, 71, 420-424	1.7	16
122	PEGylation Greatly Enhances Laccase Polymerase Activity. *ChemCatChem*, **2017**, 9, 3888-3894	5.2	15
121	Detection of human neutrophil elastase (HNE) on wound dressings as marker of inflammation. *Applied Microbiology and Biotechnology*, **2017**, 101, 1443-1454	5.7	15
120	Enzymatic polymerization of catechol under high-pressure homogenization for the green coloration of textiles. *Journal of Cleaner Production*, **2018**, 202, 792-798	10.3	14
119	Proteinaceous microspheres for targeted RNA delivery prepared by an ultrasonic emulsification method. *Journal of Materials Chemistry B*, **2013**, 1, 82-90	7.3	14

118	Enzymatic synthesis of antibody-human serum albumin conjugate for targeted drug delivery using tyrosinase from Agaricus bisporus. *RSC Advances*, **2013**, 3, 1460-1467	3.7	14
117	Enzymatic synthesis of Tinuvin. *Enzyme and Microbial Technology*, **2007**, 40, 1748-1752	3.8	14
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115	Catalysis and processing **2003**, 86-119		14
114	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	4.4	13
113	Enzymatic synthesis of poly(catechin)-antibiotic conjugates: an antimicrobial approach for indwelling catheters. *Applied Microbiology and Biotechnology*, **2015**, 99, 637-51	5.7	13
112	Enzymatic modification of jute fabrics for enhancing the reinforcement in jute/PP composites. *Journal of Thermoplastic Composite Materials*, **2018**, 31, 483-499	1.9	13
111	Protein Formulations for Emulsions and Solid-in-Oil Dispersions. *Trends in Biotechnology*, **2016**, 34, 496-505	15.1	13
110	Molecular modeling of hair keratin/peptide complex: Using MM-PBSA calculations to describe experimental binding results. *Proteins: Structure, Function and Bioinformatics*, **2012**, 80, 1409-17	4.2	13
109	Biodegradable materials based on silk fibroin and keratin. *Biomacromolecules*, **2009**, 10, 1019	6.9	13
108	Functionalization of Bacterial Cellulose Nonwoven by Poly(fluorophenol) to Improve Its Hydrophobicity and Durability. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 332	5.8	13
107	Ultrasound-assisted lipase catalyzed hydrolysis of aspirin methyl ester. *Ultrasonics Sonochemistry*, **2018**, 40, 587-593	8.9	13
106	Effect of ultrasound on protein functionality. *Ultrasonics Sonochemistry*, **2021**, 76, 105653	8.9	13
105	Modulating antioxidant activity and the controlled release capability of laccase mediated catechin grafting of chitosan. *Process Biochemistry*, **2017**, 59, 65-76	4.8	12
104	Jute hydrophobization via laccase-catalyzed grafting of fluorophenol and fluoroamine. *RSC Advances*, **2016**, 6, 90427-90434	3.7	12
103	Release of Fragrances from Cotton Functionalized with Carbohydrate-Binding Module Proteins. *ACS Applied Materials & Interfaces*, **2019**, 11, 28499-28506	9.5	12
102	Characterization of potential elastase inhibitor-peptides regulated by a molecular switch for wound dressings applications. *Enzyme and Microbial Technology*, **2012**, 50, 107-14	3.8	12
101	Hydrolysis of Cutin by PET-Hydrolases. *Macromolecular Symposia*, **2010**, 296, 342-346	0.8	12

100	Attaching Different Kinds of Proteinaceous Nanospheres to a Variety of Fabrics Using Ultrasound Radiation. *Israel Journal of Chemistry*, **2010**, 50, 524-529	3.4	12
99	OBP fused with cell-penetrating peptides promotes liposomal transduction. *Colloids and Surfaces B: Biointerfaces*, **2018**, 161, 645-653	6	12
98	Conductive Cotton by In Situ Laccase-Polymerization of Aniline. *Polymers*, **2018**, 10,	4.5	12
97	Exploring PEGylated and immobilized laccases for catechol polymerization. *AMB Express*, **2018**, 8, 134	4.1	12
96	Ultrasound-assisted extraction of hemicellulose and phenolic compounds from bamboo bast fiber powder. *PLoS ONE*, **2018**, 13, e0197537	3.7	11
95	HSA nanocapsules functionalized with monoclonal antibodies for targeted drug delivery. *International Journal of Pharmaceutics*, **2013**, 458, 1-8	6.5	11
94	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	3.7	11
93	Releasing dye encapsulated in proteinaceous microspheres on conductive fabrics by electric current. *ACS Applied Materials & Interfaces*, **2012**, 4, 2926-30	9.5	11
92	Treatment of cotton fabrics with purified Trichoderma reesei cellulases. *Coloration Technology*, **2008**, 114, 216-220		11
91	Specificities of a chemically modified laccase from Trametes hirsuta on soluble and cellulose-bound substrates. *Biotechnology Letters*, **2006**, 28, 741-7	3	11
90	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, 61-75	3.2	11
89	Desorption of cellulases from cotton powder. *Biotechnology Letters*, **2001**, 23, 1445-1448	3	11
88	Stabilization of enzymes in micro-emulsions for ultrasound processes. *Biochemical Engineering Journal*, **2015**, 93, 115-118	4.2	10
87	Bamboo fibre processing: insights into hemicellulase and cellulase substrate accessibility. *Biocatalysis and Biotransformation*, **2012**, 30, 27-37	2.5	10
86	Sonochemical proteinaceous microspheres for wound healing. *Advances in Experimental Medicine and Biology*, **2012**, 733, 155-64	3.6	10
85	Tailoring elastase inhibition with synthetic peptides. *European Journal of Pharmacology*, **2011**, 666, 53-60	3.3	10
84	Polymeric Electrospun Fibrous Dressings for Topical Co-delivery of Acyclovir and Omega-3 Fatty Acids. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 390	5.8	10
83	Zein impart hydrophobic and antimicrobial properties to cotton textiles. *Reactive and Functional Polymers*, **2020**, 154, 104664	4.6	9

82	In-situ lipase-catalyzed cotton coating with polyesters from ethylene glycol and glycerol. *Process Biochemistry*, **2018**, 66, 82-88	4.8	9
81	Ultrasound-Assisted Encapsulation of Sacha Inchi (Linneo.) Oil in Alginate-Chitosan Nanoparticles. *Polymers*, **2019**, 11,	4.5	9
80	Wound-healing evaluation of entrapped active agents into protein microspheres over cellulosic gauzes. *Biotechnology Journal*, **2012**, 7, 1376-85	5.6	9
79	Developing scaffolds for tissue engineering using the Ca2+-induced cold gelation by an experimental design approach. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 2269-78	3.5	9
78	Direct enzymatic esterification of cotton and Avicel with wild-type and engineered cutinases. *Cellulose*, **2013**, 20, 409-416	5.5	9
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