Ping Wang

List of Publications by Year
in descending order

91 papers	1,723 citations	279487 23 h-index	377514 34 g-index
91 all docs	91 docs citations	91 times ranked	1499 citing authors

#	Article	IF	Citations
1	Laccase-Catalyzed Oxidative Polymerization of Phenolic Compounds. Applied Biochemistry and Biotechnology, 2013, 171, 1673-1680.	1.4	106
2	Disulfide bond reconstruction: A novel approach for grafting of thiolated chitosan onto wool. Carbohydrate Polymers, 2019, 203, 369-377.	5.1	70
3	Hydrophobic modification of cotton fabric with octadecylamine via laccase/TEMPO mediated grafting. Carbohydrate Polymers, 2016, 137, 549-555.	5.1	56
4	Dissolution and regeneration of wool keratin in the deep eutectic solvent of choline chloride-urea. International Journal of Biological Macromolecules, 2018, 119, 423-430.	3.6	55
5	Highly efficient and eco-friendly wool degradation by L-cysteine-assisted esperase. Journal of Cleaner Production, 2018, 192, 433-442.	4.6	54
6	Transglutaminaseâ€modified wool keratin film and its potential application in tissue engineering. Engineering in Life Sciences, 2013, 13, 149-155.	2.0	46
7	Developing a Multifunctional Silk Fabric with Dual-Driven Heating and Rapid Photothermal Antibacterial Abilities Using High-Yield MXene Dispersions. ACS Applied Materials & Interfaces, 2021, 13, 43414-43425.	4.0	45
8	Effects of cutinase on the enzymatic shrink-resist finishing of wool fabrics. Enzyme and Microbial Technology, 2009, 44, 302-308.	1.6	42
9	Laccase-mediated construction of flexible double-network hydrogels based on silk fibroin and tyramine-modified hyaluronic acid. International Journal of Biological Macromolecules, 2020, 160, 795-805.	3.6	38
10	Enzymatic processing of protein-based fibers. Applied Microbiology and Biotechnology, 2015, 99, 10387-10397.	1.7	37
11	Preparation of a multifunctional fibroin-based biomaterial via laccase-assisted grafting of chitooligosaccharide. International Journal of Biological Macromolecules, 2018, 113, 1062-1072.	3.6	37
12	A facile strategy for the preparation of photothermal silk fibroin aerogels with antibacterial and oil-water separation abilities. Journal of Colloid and Interface Science, 2021, 603, 518-529.	5.0	34
13	Eco-friendly Grafting of Chitosan as a Biopolymer onto Wool Fabrics Using Horseradish Peroxidase. Fibers and Polymers, 2019, 20, 261-270.	1.1	32
14	The combined use of cutinase, keratinase and protease treatments for wool bio-antifelting. Fibers and Polymers, 2011, 12, 760-764.	1.1	31
15	Tyrosinase-Mediated Construction of a Silk Fibroin/Elastin Nanofiber Bioscaffold. Applied Biochemistry and Biotechnology, 2016, 178, 1363-1376.	1.4	30
16	Rapid Antibacterial Effects of Silk Fabric Constructed through Enzymatic Grafting of Modified PEI and AgNP Deposition. ACS Applied Materials & Interfaces, 2021, 13, 33505-33515.	4.0	30
17	Modification of <i><scp>B</scp>ombyx mori</i> silk fabrics by tyrosinaseâ€catalyzed grafting of chitosan. Engineering in Life Sciences, 2014, 14, 211-217.	2.0	29
18	Properties of alginate fiber spun-dyed with fluorescent pigment dispersion. Carbohydrate Polymers, 2015, 118, 143-149.	5.1	28

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19	Self-Crosslinking of Silk Fibroin Using H2O2-Horseradish Peroxidase System and the Characteristics of the Resulting Fibroin Membranes. Applied Biochemistry and Biotechnology, 2017, 182, 1548-1563.	1.4	27
20	Laccase-mediated in situ oxidation of dopa for bio-inspired coloration of silk fabric. RSC Advances, 2017, 7, 12977-12983.	1.7	27
21	Synthesis of silk fibroin-g-PAA composite using H2O2-HRP and characterization of the in situ biomimetic mineralization behavior. Materials Science and Engineering C, 2017, 81, 291-302.	3.8	27
22	A novel approach for grafting of Î²-cyclodextrin onto wool via laccase/TEMPO oxidation. Carbohydrate Polymers, 2016, 153, 463-470.	5.1	26
23	Construction of a Rapid Photothermal Antibacterial Silk Fabric via QCS-Guided <i>In Situ</i> Deposition of CuSNPs. ACS Sustainable Chemistry and Engineering, 2022, 10, 2192-2203.	3.2	26
24	Covalent Immobilization of Catalase onto Regenerated Silk Fibroins via Tyrosinase-Catalyzed Cross-Linking. Applied Biochemistry and Biotechnology, 2015, 177, 472-485.	1.4	25
25	A novel â€œtrifunctional proteaseâ€• with reducibility, hydrolysis, and localization used for wool anti-felting treatment. Applied Microbiology and Biotechnology, 2018, 102, 9159-9170.	1.7	25
26	Enzymatic Thiolâ€“Ene Click Reaction: An Eco-Friendly Approach for MPEGMA-Grafted Modification of Wool Fibers. ACS Sustainable Chemistry and Engineering, 2019, 7, 13446-13455.	3.2	25
27	Fabrication of tough poly(ethylene glycol)/collagen double network hydrogels for tissue engineering. Journal of Biomedical Materials Research - Part A, 2018, 106, 192-200.	2.1	24
28	Sensitive Micro-Breathing Sensing and Highly-Effective Photothermal Antibacterial <i>Cinnamomum camphora</i> Bark Micro-Structural Cotton Fabric via Electrostatic Self-Assembly of MXene/HACC. ACS Applied Materials & Interfaces, 2022, 14, 2132-2145.	4.0	24
29	<i>In situ</i> supramolecular hydrogel based on hyaluronic acid and dextran derivatives as cell scaffold. Journal of Biomedical Materials Research - Part A, 2016, 104, 2263-2270.	2.1	21
30	Green modification of cellulose-based natural materials by HRP-initiated controlled â€œgraft fromâ€• polymerization. International Journal of Biological Macromolecules, 2020, 164, 1237-1245.	3.6	21
31	Controlled graft polymerization on the surface of filter paper via enzyme-initiated RAFT polymerization. Carbohydrate Polymers, 2019, 207, 239-245.	5.1	20
32	Chitosan grafting via one-enzyme double catalysis: An effective approach for improving performance of wool. Carbohydrate Polymers, 2021, 252, 117157.	5.1	20
33	Combined use of mild oxidation and cutinase/lipase pretreatments for enzymatic processing of wool fabrics. Engineering in Life Sciences, 2010, 10, 19-25.	2.0	19
34	Enzymatic grafting of lactoferrin onto silk fibroins for antibacterial functionalization. Fibers and Polymers, 2014, 15, 2045-2050.	1.1	19
35	Mechanism and Analysis of Laccase-mediated Coloration of Silk Fabrics. Fibers and Polymers, 2018, 19, 868-876.	1.1	19
36	Hydrophobic functionalization of jute fabrics by enzymatic-assisted grafting of vinyl copolymers. New Journal of Chemistry, 2017, 41, 3773-3780.	1.4	18

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37	Preparation of a bio-composite of sericin-g-PMMA via HRP-mediated graft copolymerization. International Journal of Biological Macromolecules, 2018, 117, 323-330.	3.6	17
38	Thiolâ€ene photoclick reaction: An ecoâ€friendly and facile approach for preparation of MPEGâ€gâ€keratin biomaterial. Engineering in Life Sciences, 2020, 20, 17-25.	2.0	17
39	Effect of protease treatment on dyeing properties of wool fabrics for single bath. Engineering in Life Sciences, 2009, 9, 135-139.	2.0	16
40	Facilitation of Î±-polylysine in TGase-mediated crosslinking modification for gluten and its effect on properties of gluten films. Journal of Cereal Science, 2017, 73, 108-115.	1.8	16
41	A novel strategy to improve the dyeing properties in laccaseâ€mediated coloration of wool fabric. Coloration Technology, 2017, 133, 65-72.	0.7	16
42	A Sustainable and Effective Bioprocessing Approach for Improving Anti-felting, Anti-pilling and Dyeing Properties of Wool Fabric. Fibers and Polymers, 2021, 22, 3045-3054.	1.1	16
43	Orderly Self-Stacking a High-Stability coating of MXene@Polydopamine hybrid onto textiles for multifunctional personal thermal management. Composites Part A: Applied Science and Manufacturing, 2022, 160, 107038.	3.8	16
44	Grafting of tyrosine-containing peptide onto silk fibroin membrane for improving enzymatic reactivity. Fibers and Polymers, 2016, 17, 1323-1329.	1.1	15
45	An ecofriendly phosphorylation of wool using Maillard reaction for improving cationic dye absorption. Journal of Cleaner Production, 2018, 178, 611-617.	4.6	15
46	Improving properties of silk sericin membranes via enzymatic oxidation with laccase and TEMPO. Biotechnology and Applied Biochemistry, 2018, 65, 372-380.	1.4	15
47	High strength and anti-fatigue nanocomposite hydrogels prepared via self-initiated free radical polymerization triggered by daylight. New Journal of Chemistry, 2018, 42, 11796-11803.	1.4	15
48	Development of an eco-friendly antibacterial textile: lysozyme immobilization on wool fabric. Bioprocess and Biosystems Engineering, 2020, 43, 1639-1648.	1.7	15
49	Efficient Regulation of the Behaviors of Silk Fibroin Hydrogel via Enzyme-Catalyzed Coupling of Hyaluronic Acid. Langmuir, 2021, 37, 478-489.	1.6	14
50	Green preparation of PEDOT-based composites with outstanding electrothermal heating and durable rapid-response sensing performance for smart healthcare textiles. Chemical Engineering Journal, 2022, 446, 137189.	6.6	14
51	A comparative evaluation of the action of savinase and papain to the cutinase-pretreated wool. Fibers and Polymers, 2010, 11, 586-592.	1.1	13
52	Conjugation of CMCS to silk fibroin for tuning mechanical and swelling behaviors of fibroin hydrogels. European Polymer Journal, 2021, 150, 110411.	2.6	13
53	A facile strategy to construct flexible and conductive silk fibroin aerogel for pressure sensors using bifunctional PEG. European Polymer Journal, 2021, 153, 110513.	2.6	13
54	â€œGraft toâ€•Modification of Lignin by the Combination of Enzyme-Initiated Reversible Additionâ€"Fragmentation Chain Transfer and Grafting. ACS Sustainable Chemistry and Engineering, 2019, 7, 12973-12980.	3.2	12

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55	Graft modification of lignin-based cellulose via enzyme-initiated reversible addition-fragmentation chain transfer (RAFT) polymerization and free-radical coupling. International Journal of Biological Macromolecules, 2020, 144, 267-278.	3.6	12
56	A Facile and Controllable Approach for Surface Modification of Wool by Micro-dissolution. Fibers and Polymers, 2020, 21, 1229-1237.	1.1	12
57	Phase-transited lysozyme with secondary reactivity for moisture-permeable antibacterial wool fabric. Chemical Engineering Journal, 2022, 432, 134198.	6.6	12
58	Construction of multifunctional UV-resistant, antibacterial and photothermal cotton fabric via silver/melanin-like nanoparticles. Cellulose, 2022, 29, 7477-7494.	2.4	12
59	Preparation of antibacterial silk fibroin membranes via tyrosinaseâ€catalyzed coupling of Îµâ€polylysine. Biotechnology and Applied Biochemistry, 2016, 63, 163-169.	1.4	11
60	Enhancement of antioxidant ability of Bombyx mori silk fibroins by enzymatic coupling of catechin. Applied Microbiology and Biotechnology, 2016, 100, 1713-1722.	1.7	11
61	Fabrication of stretchable PEDOT:PSS coated cotton fabric via LBL electrostatic self-assembly and its UV protection and sensing properties. Cellulose, 2022, 29, 2699-2709.	2.4	11
62	An innovative, low-cost and environment-friendly approach by using a deep eutectic solvent as the water substitute to minimize waste in the textile industry and for better clothing performance. Green Chemistry, 2022, 24, 5904-5917.	4.6	11
63	Effect of microbial transglutaminase on dyeing properties of natural dyes on wool fabric. Biocatalysis and Biotransformation, 2008, 26, 399-404.	1.1	9
64	Enhancement reactivity of <i>Bombyx mori</i> silk fibroins via genipin-mediated grafting of a tyrosine-rich polypeptide. Journal of the Textile Institute, 2017, 108, 2115-2122.	1.0	9
65	Biomimetic mineralization behavior of COS-grafted silk fibroin following hexokinase-mediated phosphorylation. International Journal of Biological Macromolecules, 2019, 131, 241-252.	3.6	9
66	Construction of a composite hydrogel of silk sericin via horseradish peroxidaseâ€catalyzed graft polymerization of polyâ€PEGDMA. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2643-2655.	1.6	9
67	Exploring the role of pullulan in the process of potato starch film formation. Carbohydrate Polymers, 2020, 234, 115910.	5.1	9
68	Thermo-responsive cotton fabric prepared by enzyme-initiated â€œgraft fromâ€• polymerization for moisture/thermal management. Cellulose, 2021, 28, 1795-1808.	2.4	9
69	Photoenzymatic Activity of Artificialâ€"Natural Bienzyme Applied in Biodegradation of Methylene Blue and Accelerating Polymerization of Dopamine. ACS Applied Materials & Interfaces, 2021, 13, 56191-56204.	4.0	9
70	Enhancement biocompatibility of bacterial cellulose membrane via laccase/TEMPO mediated grafting of silk fibroins. Fibers and Polymers, 2017, 18, 1478-1485.	1.1	8
71	HRP-mediated graft polymerization of acrylic acid onto silk fibroins and in situ biomimetic mineralization. Journal of Materials Science: Materials in Medicine, 2018, 29, 72.	1.7	8
72	Bio-Inspired Coloring and Functionalization of Silk Fabric via Laccase-Catalyzed Graft Polymerization of Arylamines. Fibers and Polymers, 2020, 21, 1927-1937.	1.1	7

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73	Combined Cutinase and Keratinolytic Enzyme to Endow Improved Shrink-resistance to Wool Fabric. Fibers and Polymers, 2022, 23, 985-992.	1.1	7
74	Bioâ€antifelting of wool based on mild methanolic potassium hydroxide pretreatment. Engineering in Life Sciences, 2013, 13, 102-108.	2.0	6
75	Enzymatic crosslinking of silk sericin through combined use of TGase and the custom peptide. Journal of the Textile Institute, 2020, 111, 84-92.	1.0	6
76	Customizable bio-based coating of phase-transited lysozyme-COS for durable antibacterial and moisture management on wool fabric. International Journal of Biological Macromolecules, 2022, 217, 552-561.	3.6	6
77	Enzymatic deposition of PPy onto cPEG-grafted silk fibroin membrane to achieve conductivity. New Journal of Chemistry, 2020, 44, 7042-7050.	1.4	5
78	Enzymatic construction of a temperature-regulating fabric with multiple heat-transfer capabilities. Cellulose, 2022, 29, 3513-3528.	2.4	5
79	Preparation of <scp>PEG</scp>â€modified wool keratin/sodium alginate porous scaffolds with elasticity recovery and good biocompatibility. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1303-1312.	1.6	4
80	pH Mediated L-cysteine Aqueous Solution for Wool Reduction and Urea-Free Keratin Extraction. Journal of Polymers and the Environment, 2022, 30, 2714-2726.	2.4	4
81	Phosphorylation of Silk Fibroin via Maillard Reaction and Its Behavior of Biomimetic Mineralization. Fibers and Polymers, 2019, 20, 1616-1623.	1.1	3
82	Can Thiourea Dioxide Regenerate Keratin from Waste Wool?. Journal of Natural Fibers, 2022, 19, 5991-5999.	1.7	3
83	Enhancing dye adsorption of wool by controlled and facile surface modification using sodium bisulphite. Coloration Technology, 2022, 138, 82-89.	0.7	3
84	Thiol-Based Ionic Liquid: An Efficient Approach for Improving Hydrophilic Performance of Wool. Journal of Natural Fibers, 2022, 19, 9729-9740.	1.7	3
85	Thiourea dioxide-mediated surface functionalization: A novel strategy for anti-felting and dyeability improvement of wool. Journal of the Textile Institute, 2022, 113, 2491-2501.	1.0	3
86	Fabrication of hygroscopic photothermal fibroin-based aerogels for dehumidification and solar-driven water harvesting. Materials Today Communications, 2022, 32, 103984.	0.9	2
87	Antibacterial Functionalization of Silk Fabrics following in Situ Coloring with Diazo Salts. Journal of Natural Fibers, 2021, 18, 1809-1822.	1.7	1
88	Enhancing surface performance of wool using reduced ionic liquid. Journal of the Textile Institute, 2022, 113, 983-992.	1.0	1
89	Structure and Performance of Cuticles Isolated from Wool Fibers Using Different Approaches. Journal of Natural Fibers, 2022, 19, 7714-7727.	1.7	1
90	Enzymatic synthesis of sodium alginateâ€gâ€poly (acrylic acid) grafting copolymers as a novel printing thickener. Coloration Technology, 2022, 138, 278-290.	0.7	1

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91	A bacteriostatic and hemostatic medical dressing based on PEG modified keratin/carboxymethyl chitosan. International Journal of Polymeric Materials and Polymeric Biomaterials, 0, , 1-9.	1.8	0