Bi Shi

List of Publications by Year in Descending Order

205 papers	5,530 citations	40 h-index	64 g-index
218 ext. papers	6,610 ext. citations	6.5 avg, IF	6.04 L-index

#	Paper	IF	Citations
205	Potential of phenolic compounds in Ligustrum robustum (Rxob.) Blume as antioxidant and lipase inhibitors: Multi-spectroscopic methods and molecular docking.. *Journal of Food Science*, **2022**, 87, 651-663	3.4	0
204	Preparation of high solid content oxidized starch by acid pretreatment-HO oxidation and its performance as the ligand in zirconium tanning.. *Carbohydrate Research*, **2022**, 511, 108501	2.9	0
203	High-expression and characterization of a novel serine protease from Ornithinibacillus caprae L9 with eco-friendly applications.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	1
202	A novel strategy for enhancing comprehensive properties of polyacrylate coating: Incorporation of highly dispersed zinc ions by using polyacrylic acid as carrier. *Progress in Organic Coatings*, **2022**, 162, 106596	4.8	0
201	Characterization and application of a novel halotolerant protease with no collagenase activity for cleaner dehairing of goatskin. *Process Biochemistry*, **2022**, 113, 203-215	4.8	1
200	Green synthesis of environmentally benign collagen fibers-derived hierarchically structured amphiphilic composite fibers for high-flux dual separation of emulsion. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107067	6.8	0
199	Chrome-free synergistic tanning system based on biomass-derived hydroxycarboxylic acid□irconium complexes. *Journal of Cleaner Production*, **2022**, 336, 130428	10.3	1
198	Natural polyphenol-based nanoengineering of collagen-constructed hemoperfusion adsorbent for the excretion of heavy metals.. *Journal of Hazardous Materials*, **2022**, 428, 128145	12.8	2
197	Selective hydrogenation of vanillin to vanillyl alcohol over Pd, Pt, and Au catalysts supported on an advanced nitrogen-containing carbon material produced from food waste. *Chemical Engineering Journal*, **2022**, 440, 135885	14.7	0
196	Polyethyleneimine/hydrated titanium oxide-functionalized fibrous adsorbent for removing cobalt: Adsorption performance and irradiation stability.. *Environmental Research*, **2022**, 112916	7.9	1
195	Effects of tannic acid on the transport behavior of trivalent chromium in soils and its mechanism.. *Environmental Pollution*, **2022**, 305, 119328	9.3	0
194	Green and sustainable 'Al-Zr-oligosaccharides' tanning agents from the simultaneous depolymerization and oxidation of waste paper.. *Science of the Total Environment*, **2022**, 837, 155570	10.2	0
193	Toughening agent for melamine formaldehyde resin: A new method for recycling chrome shavings. *Polymer*, **2022**, 253, 124979	3.9	0
192	Insights into the mechanism of flavor compound changes in strong flavor baijiu during storage by using the density functional theory and molecular dynamics simulation. *Food Chemistry*, **2021**, 131522	8.5	1
191	Investigations on the general properties of biomass-based aldehyde tanned sheep fur for its selective post-tanning processing. *Journal of Leather Science and Engineering*, **2021**, 3,	3.6	7
190	Reversible inhibition of trypsin activity with soybean flour in hide bating process for leather quality improvement. *Industrial Crops and Products*, **2021**, 161, 113222	5.9	1
189	Irradiation-stable hydrous titanium oxide-immobilized collagen fibers for uranium removal from radioactive wastewater. *Journal of Environmental Management*, **2021**, 283, 112001	7.9	10

188	Insights into Regional Wetting Behaviors of Amphiphilic Collagen for Dual Separation of Emulsions. *ACS Applied Materials & Interfaces*, **2021**, 13, 18209-18217	9.5	3
187	Life Cycle Assessment for Chrome Tanning, Chrome-Free Metal Tanning, and Metal-Free Tanning Systems. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6720-6731	8.3	6
186	Collagen fiber membrane-derived chemically and mechanically durable superhydrophobic membrane for high-performance emulsion separation. *Journal of Leather Science and Engineering*, **2021**, 3,	3.6	11
185	Microwave-Assisted Sulfonation of Lignin for the Fabrication of a High-Performance Dye Dispersant. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 9053-9061	8.3	4
184	Collagen peptide provides Streptomyces coelicolor CGMCC 4.7172 with abundant precursors for enhancing undecylprodigiosin production. *Journal of Leather Science and Engineering*, **2021**, 3,	3.6	1
183	Selective degradation and oxidation of hemicellulose in corncob to oligosaccharides: From biomass into masking agent for sustainable leather tanning. *Journal of Hazardous Materials*, **2021**, 413, 125425	12.8	12
182	Conversion of tannery solid waste to an adsorbent for high-efficiency dye removal from tannery wastewater: A road to circular utilization. *Chemosphere*, **2021**, 263, 127987	8.4	18
181	Tanning agent free leather making enabled by the dispersity of collagen fibers combined with superhydrophobic coating. *Green Chemistry*, **2021**, 23, 3581-3587	10	5
180	Synthesis of Au/lignin–tannin particles and their anticancer application. *Green Chemistry*, **2021**, 23, 6945-6952	10	3
179	On the development of chrome-free tanning agents: an advanced Trojan horse strategy using Al/Zr-oligosaccharides produced by the depolymerization and oxidation of biomass. *Green Chemistry*, **2021**, 23, 2640-2651	10	9
178	Advanced masking agent for leather tanning from stepwise degradation and oxidation of cellulose. *Green Chemistry*, **2021**, 23, 4044-4050	10	8
177	Interaction mechanism of collagen peptides with four phenolic compounds in the ethanol-water solution. *Journal of Leather Science and Engineering*, **2021**, 3,	3.6	3
176	Leather-like hierarchical porous composites with outstanding electromagnetic interference shielding effectiveness and durability. *Composites Part B: Engineering*, **2021**, 225, 109272	10	1
175	Engineered liver-inspired collagen matrix as a high-performance hemoperfusion adsorbent for bilirubin removal. *Chemical Engineering Journal*, **2021**, 426, 130791	14.7	2
174	Collagen Fiber-based Advanced Separation Materials: Recent Developments and Future Perspectives. *Advanced Materials*, **2021**, e2107891	24	4
173	Ultradurable Superhydrophobic Natural Rubber-Based Elastomer Enabled by Modified Multiscale Leather Collagen Fibers. *Advanced Materials Interfaces*, **2020**, 7, 2000344	4.6	4
172	Lightweight and Wearable X-Ray Shielding Material with Biological Structure for Low Secondary Radiation and Metabolic Saving Performance. *Advanced Materials Technologies*, **2020**, 5, 2000240	6.8	7
171	Research on X-ray shielding performance of wearable Bi/Ce-natural leather composite materials. *Journal of Hazardous Materials*, **2020**, 398, 122943	12.8	14

170	Natural Rubber-Based Elastomer Reinforced by Chemically Modified Multiscale Leather Collagen Fibers with Excellent Toughness. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5091-5099	8.3	11
169	Effects of dispersion and fixation of collagen fiber network on its flame retardancy. *Polymer Degradation and Stability*, **2020**, 175, 109122	4.7	8
168	Ornithinibacillus caprae sp. nov., a moderate halophile isolated from the hides of a white goat. *Archives of Microbiology*, **2020**, 202, 1469-1476	3	3
167	Effect of soil pH on the transport, fractionation, and oxidation of chromium(III). *Ecotoxicology and Environmental Safety*, **2020**, 195, 110459	7	34
166	A collagen-based electrolyte-locked separator enables capacitor to have high safety and ionic conductivity. *Journal of Energy Chemistry*, **2020**, 47, 324-332	12	13
165	Effects of metals released in strong-flavor baijiu on the evolution of aroma compounds during storage. *Food Science and Nutrition*, **2020**, 8, 1904-1913	3.2	10
164	Synthesis of Catechin-Rare Earth Complex with Efficient and Broad-Spectrum Anti-Biofilm Activity. *Chemistry and Biodiversity*, **2020**, 17, e1900734	2.5	4
163	Nonswelling Silica–Poly(acrylic acid) Composite for Efficient and Simultaneous Removal of Cationic Dye, Heavy Metal, and Surfactant-Stabilized Emulsion from Wastewater. *Industrial & Engineering Chemistry Research*, **2020**, 59, 3383-3393	3.9	16
162	The Influence of Cu(II) Existence State on Characteristics, Reactivity, and Recyclability of Microscale Fe/Cu Bimetal. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7310-7320	3.9	2
161	Constructing a robust chrome-free leather tanned by biomass-derived polyaldehyde via crosslinking with chitosan derivatives. *Journal of Hazardous Materials*, **2020**, 396, 122771	12.8	27
160	Formaldehyde formation during the preparation of dialdehyde carboxymethyl cellulose tanning agent. *Carbohydrate Polymers*, **2020**, 239, 116217	10.3	17
159	Interaction between retanning agents and wet white tanned by a novel bimetal complex tanning agent. *Journal of Leather Science and Engineering*, **2020**, 2,	3.6	10
158	Effects of collagen fiber addition on the combustion and thermal stability of natural rubber. *Journal of Leather Science and Engineering*, **2020**, 2,	3.6	2
157	Collagen fibers with tuned wetting properties for dual separation of oil-in-water and water-in-oil emulsion. *Journal of Materials Chemistry A*, **2020**, 8, 24388-24392	13	7
156	A “Trojan horse strategy” for the development of a renewable leather tanning agent produced via an AlCl3-catalyzed cellulose depolymerization. *Green Chemistry*, **2020**, 22, 316-321	10	15
155	Formation and in situ separation of oligomeric products from complete depolymerization of pubescens using a catalyst-free biphasic system. *Cellulose*, **2020**, 27, 1951-1964	5.5	6
154	Lightweight and Flexible Bi@Bi-La Natural Leather Composites with Superb X-ray Radiation Shielding Performance and Low Secondary Radiation. *ACS Applied Materials & Interfaces*, **2020**, 12, 54117-54126	9.5	8
153	Collagen Peptide Provides with Robust Stress Tolerance for Enhanced Bioethanol Production. *ACS Applied Materials & Interfaces*, **2020**,	9.5	2

152	Immobilization of Ytterbium by Plant Polyphenols for Antibiofilm Materials with Highly Effective Activity and Long-Term Stability. *Industrial & Engineering Chemistry Research*, **2020**, 59, 18558-18566	3.9	0
151	Synergistic Combination of the Capillary Effect of Collagen Fibers and Size-Sieving Merits of Metal□Organic Frameworks for Emulsion Separation with High Flux. *Industrial & Engineering Chemistry Research*, **2020**, 59, 14925-14934	3.9	8
150	A cleaner deliming technology with glycine for ammonia-nitrogen reduction in leather manufacture. *Journal of Cleaner Production*, **2020**, 245, 118900	10.3	8
149	Advanced X-ray Shielding Materials Enabled by the Coordination of Well-Dispersed High Atomic Number Elements in Natural Leather. *ACS Applied Materials & Interfaces*, **2020**, 12, 19916-19926	9.5	15
148	Prevention of Bacterial Colonization Based on Self-Assembled Metal-Phenolic Nanocoating from Rare-Earth Ions and Catechin. *ACS Applied Materials & Interfaces*, **2020**, 12, 22237-22245	9.5	7
147	Collagen-based breathable, humidity-ultrastable and degradable on-skin device. *Journal of Materials Chemistry C*, **2019**, 7, 2548-2556	7.1	14
146	High-expression keratinase by Bacillus subtilis SCK6 for enzymatic dehairing of goatskins. *International Journal of Biological Macromolecules*, **2019**, 135, 119-126	7.9	16
145	Ultrafast and efficient removal of anionic dyes from wastewater by polyethyleneimine-modified silica nanoparticles. *Chemosphere*, **2019**, 229, 570-579	8.4	30
144	Binary oxide nanofiber bundle supported Keggin-type phosphotungstic acid for the synthesis of 5-hydroxymethylfurfural. *Catalysis Communications*, **2019**, 123, 96-99	3.2	4
143	Peroxide-periodate co-modification of carboxymethylcellulose to prepare polysaccharide-based tanning agent with high solid content. *Carbohydrate Polymers*, **2019**, 224, 115169	10.3	20
142	Efficient separation of viscous emulsion through amphiprotic collagen nanofibers-based membrane. *Journal of Membrane Science*, **2019**, 588, 117209	9.6	14
141	Leather enabled multifunctional thermal camouflage armor. *Chemical Engineering Science*, **2019**, 196, 64-71	4.4	13
140	Eco-friendly enzymatic dehairing of goatskins utilizing a metalloprotease high-effectively expressed by Bacillus subtilis SCK6. *Journal of Cleaner Production*, **2019**, 212, 647-654	10.3	7
139	Engineering robust metal□phenolic network membranes for uranium extraction from seawater. *Energy and Environmental Science*, **2019**, 12, 607-614	35.4	151
138	Self-Assembled Metal-Phenolic Nanoparticles for Enhanced Synergistic Combination Therapy against Colon Cancer. *Advanced Biology*, **2019**, 3, e1800241	3.5	19
137	Targeted Therapy against Metastatic Melanoma Based on Self-Assembled Metal-Phenolic Nanocomplexes Comprised of Green Tea Catechin. *Advanced Science*, **2019**, 6, 1801688	13.6	71
136	Absorption and Reflection Contributions to the High Performance of Electromagnetic Waves Shielding Materials Fabricated by Compositing Leather Matrix with Metal Nanoparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 14036-14044	9.5	29
135	Fabrication of 3D porous superhydrophobic sponges using plant polyphenol-Fe3+ complexes as adhesive and their applications in oil/water separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 551, 9-16	5.1	22

134	Close-packing of hierarchically structured C@Sn@C nanofibers for high-performance Li-ion battery with large gravimetric and volumetric energy densities. *Chemical Engineering Journal*, **2018**, 344, 625-632	14.7	16
133	Corrosion inhibition performance of tannins for mild steel in hydrochloric acid solution. *Research on Chemical Intermediates*, **2018**, 44, 407-423	2.8	14
132	Polyphenolic-Chemistry-Enabled, Mechanically Robust, Flame Resistant and Superhydrophobic Membrane for Separation of Mixed Surfactant-Stabilized Emulsions. *Chemistry - A European Journal*, **2018**, 24, 10953-10958	4.8	5
131	Competitive adsorption for simultaneous removal of emulsified water and surfactants from mixed surfactant-stabilized emulsions with high flux. *Journal of Materials Chemistry A*, **2018**, 6, 14058-14064	13	14
130	Durable superhydrophobic materials enabled by abrasion-triggered roughness regeneration. *Chemical Engineering Journal*, **2018**, 336, 633-639	14.7	29
129	Immobilization of Saccharomyces cerevisiae using polyethyleneimine grafted collagen fibre as support and investigations of its fermentation performance. *Biotechnology and Biotechnological Equipment*, **2018**, 32, 109-115	1.6	11
128	Preparation of a Highly Effective Organic Tanning Agent with Wide Molecular Weight Distribution from Bio-Renewable Sodium Alginate. *ChemistrySelect*, **2018**, 3, 12330-12335	1.8	13
127	Plant Polyphenols as Multifunctional Platforms To Fabricate Three-Dimensional Superhydrophobic Foams for Oil/Water and Emulsion Separation. *Industrial & Engineering Chemistry Research*, **2018**, 57, 16442-16450	3.9	14
126	Effect of structure features of polysaccharides on properties of dialdehyde polysaccharide tanning agent. *Carbohydrate Polymers*, **2018**, 201, 549-556	10.3	32
125	Synthesis, Characterization, and Optical Performance of a Novel Fluorescent Waterborne Polyurethane. *Advances in Polymer Technology*, **2017**, 36, 137-144	1.9	4
124	Investigation of collagen hydrolysate used as carbon and nitrogen source in the fermentation of Bacillus pumilus. *Process Biochemistry*, **2017**, 55, 11-16	4.8	7
123	Antioxidant activity in vivo and biological safety evaluation of a novel antioxidant peptide from bovine hair hydrolysates. *Process Biochemistry*, **2017**, 56, 193-198	4.8	11
122	A low-cost and water resistant biomass adhesive derived from the hydrolysate of leather waste. *RSC Advances*, **2017**, 7, 4024-4029	3.7	10
121	Preparation of polyurea microcapsules containing phase change materials in a rotating packed bed. *RSC Advances*, **2017**, 7, 21196-21204	3.7	16
120	Collagen Fiber Membrane as an Absorptive Substrate To Coat with Carbon Nanotubes-Encapsulated Metal Nanoparticles for Lightweight, Wearable, and Absorption-Dominated Shielding Membrane. *Industrial & Engineering Chemistry Research*, **2017**, 56, 8553-8562	3.9	14
119	Fast-pulverization enabled simultaneous enhancement on cycling stability and rate capability of C@NiFe2O4 hierarchical fibrous bundle. *Journal of Power Sources*, **2017**, 363, 209-217	8.9	21
118	Preparation of highly-oxidized starch using hydrogen peroxide and its application as a novel ligand for zirconium tanning of leather. *Carbohydrate Polymers*, **2017**, 174, 823-829	10.3	49
117	Preparation of oxidized sodium alginate with different molecular weights and its application for crosslinking collagen fiber. *Carbohydrate Polymers*, **2017**, 157, 1650-1656	10.3	74

116	An integrated cleaner beamhouse process for minimization of nitrogen pollution in leather manufacture. *Journal of Cleaner Production*, **2016**, 112, 2-8	10.3	18
115	A facile synthesis of a highly stable superhydrophobic nanofibrous film for effective oil/water separation. *RSC Advances*, **2016**, 6, 82352-82358	3.7	8
114	Hierarchically structured C@SnO2@C nanofiber bundles with high stability and effective ambipolar diffusion kinetics for high-performance Li-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 18783-18791	13	34
113	Natural collagen fiber-enabled facile synthesis of carbon@Fe3O4 core–shell nanofiber bundles and their application as ultrahigh-rate anode materials for Li-ion batteries. *RSC Advances*, **2016**, 6, 10824-10830	3.7	16
112	Lightweight and high-performance electromagnetic radiation shielding composites based on a surface coating of Cu@Ag nanoflakes on a leather matrix. *Journal of Materials Chemistry C*, **2016**, 4, 914-920	7.1	35
111	Effect of ultrasonic pretreatment on kinetics of gelatin hydrolysis by collagenase and its mechanism. *Ultrasonics Sonochemistry*, **2016**, 29, 495-501	8.9	28
110	Modification of Leather Split by In Situ Polymerization of Acrylates. *International Journal of Polymer Science*, **2016**, 2016, 1-7	2.4	1
109	Novel environmentally sustainable cardanol-based plasticizers: synthesis and properties. *Polymer International*, **2016**, 65, 464-472	3.3	15
108	Increasing rigidness of carbon coating for improvement of electrochemical performances of Co3O4 in Li-ion batteries. *Carbon*, **2016**, 104, 1-9	10.4	19
107	Purification and characterization of a novel antioxidant peptide from bovine hair hydrolysates. *Process Biochemistry*, **2015**, 50, 948-954	4.8	13
106	Ferromagnetic hierarchical carbon nanofiber bundles derived from natural collagen fibers: truly lightweight and high-performance microwave absorption materials. *Journal of Materials Chemistry C*, **2015**, 3, 10146-10153	7.1	63
105	Polyethyleneimine-grafted collagen fiber as a carrier for cell immobilization. *Journal of Industrial Microbiology and Biotechnology*, **2015**, 42, 189-96	4.2	9
104	Novel environmentally sustainable cardanol-based plasticizer covalently bound to PVC via click chemistry: synthesis and properties. *RSC Advances*, **2015**, 5, 16980-16985	3.7	48
103	Bio-inspired fabrication of hierarchical Ni-Fe-P coated skin collagen fibers for high-performance microwave absorption. *Physical Chemistry Chemical Physics*, **2015**, 17, 2113-20	3.6	13
102	Effect of ultrasound on the activity and conformation of α-amylase, papain and pepsin. *Ultrasonics Sonochemistry*, **2014**, 21, 930-6	8.9	79
101	Facile synthesis of mesoporous sulfated Ce/TiO2 nanofiber solid superacid with nanocrystalline frameworks by using collagen fibers as a biotemplate and its application in esterification. *RSC Advances*, **2014**, 4, 4010-4019	3.7	29
100	Physicochemical Properties and Surface Activities of Collagen Hydrolysate-Based Surfactants with Varied Oleoyl Group Grafting Degree. *Industrial & Engineering Chemistry Research*, **2014**, 53, 8501-8508	3.9	8
99	Pd nanoparticles immobilized on boehmite by using tannic acid as structure-directing agent and stabilizer: a high performance catalyst for hydrogenation of olefins. *Research on Chemical Intermediates*, **2014**, 40, 249-258	2.8	8

98	Asymmetric polyurethane membrane with inflammation-responsive antibacterial activity for potential wound dressing application. *Journal of Materials Science*, **2013**, 48, 6625-6639	4.3	24
97	Sulfanilamide-conjugated polyurethane coating with enzymatically-switchable antimicrobial capability for leather finishing. *Progress in Organic Coatings*, **2013**, 76, 924-934	4.8	18
96	Adsorption and separation of proteins by collagen fiber adsorbent. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2013**, 928, 131-8	3.2	22
95	The antioxidant activity and active component of Gnaphalium affine extract. *Food and Chemical Toxicology*, **2013**, 58, 311-7	4.7	17
94	Complex oxide-noble metal conjugated nanoparticles. *Advanced Materials*, **2013**, 25, 2040-4	24	23
93	Antioxidant activity and characterization of bioactive polypeptides from bovine hair. *Reactive and Functional Polymers*, **2013**, 73, 573-578	4.6	7
92	One-Pot Facile Synthesis of Cerium-Doped TiO2 Mesoporous Nanofibers Using Collagen Fiber As the Biotemplate and Its Application in Visible Light Photocatalysis. *Journal of Physical Chemistry C*, **2013**, 117, 9739-9746	3.8	78
91	Preparation of highly active heterogeneous Au@Pd bimetallic catalyst using plant tannin grafted collagen fiber as the matrix. *Journal of Molecular Catalysis A*, **2013**, 366, 8-16		18
90	Adsorption Chromatography Separation of Baicalein and Baicalin Using Collagen Fiber Adsorbent. *Industrial & Engineering Chemistry Research*, **2013**, 52, 2425-2433	3.9	10
89	Adsorption chromatography separation of the flavonols kaempferol, quercetin and myricetin using cross-linked collagen fibre as the stationary phase. *Journal of the Science of Food and Agriculture*, **2013**, 93, 1575-83	4.3	5
88	Synthesis of Thermally Stable Mesoporous Alumina by using Bayberry Tannin as Template in Aqueous System. *Bulletin of the Korean Chemical Society*, **2013**, 34, 2650-2656	1.2	3
87	Antibacterial activity of silver nanoparticles stabilized on tannin-grafted collagen fiber. *Materials Science and Engineering C*, **2012**, 32, 1050-1056	8.3	34
86	Recyclable plant tannin-chelated Rh(III) complex catalysts for aqueous□organic biphasic hydrogenation of quinoline. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1104-1110	3.5	2
85	Silver nanoparticles stabilized by tannin grafted collagen fiber: synthesis, characterization and antifungal activity. *Annals of Microbiology*, **2012**, 62, 319-327	3.2	10
84	Preparation of highly active and reusable heterogeneous Al2O3□Pd catalysts by the sol□gel method using bayberry tannin as stabilizer. *Research on Chemical Intermediates*, **2012**, 38, 1609-1618	2.8	4
83	One-step seeding growth of controllable Ag@Ni core□shell nanoparticles on skin collagen fiber with introduction of plant tannin and their application in high-performance microwave absorption. *Journal of Materials Chemistry*, **2012**, 22, 11933		117
82	Skin Collagen Fiber-Biotemplated Synthesis of Size-Tunable Silver Nanoparticle-Embedded Hierarchical Intertextures with Lightweight and Highly Efficient Microwave Absorption Properties. *Journal of Physical Chemistry C*, **2012**, 116, 8188-8195	3.8	40
81	Molecular level understanding of the role of aldehyde in vegetable-aldehyde□collagen cross-linking reaction. *International Journal of Quantum Chemistry*, **2012**, 112, 2832-2839	2.1	3

80	Microbial community structure of pit mud in a Chinese strong aromatic liquor fermentation pit. *Journal of the Institute of Brewing*, **2012**, 118, 356-360	2	33
79	Bayberry Tannin as Stabilizer for the Synthesis of Highly Active and Reusable Heterogeneous Pd Catalysts and Their Application in the Catalytic Hydrogenation of Olefins. *Bulletin of the Korean Chemical Society*, **2012**, 33, 403-408	1.2	7
78	Polyphenol-grafted collagen fiber as reductant and stabilizer for one-step synthesis of size-controlled gold nanoparticles and their catalytic application to 4-nitrophenol reduction. *Green Chemistry*, **2011**, 13, 651	10	146
77	EFFECT OF pH ON STRUCTURE AND STABILITY OF COLLAGEN-LIKE PEPTIDE: INSIGHT FROM MOLECULAR DYNAMICS SIMULATION. *Journal of Theoretical and Computational Chemistry*, **2011**, 10, 245-259	1.8	3
76	Facile Synthesis of Size-Controlled Silver Nanoparticles Using Plant Tannin Grafted Collagen Fiber As Reductant and Stabilizer for Microwave Absorption Application in the Whole Ku Band. *Journal of Physical Chemistry C*, **2011**, 115, 23688-23694	3.8	58
75	One-step room-temperature synthesis of Au@Pd core□shell nanoparticles with tunable structure using plant tannin as reductant and stabilizer. *Green Chemistry*, **2011**, 13, 950	10	91
74	Synthesis of highly active and reusable supported gold nanoparticles and their catalytic applications to 4-nitrophenol reduction. *Green Chemistry*, **2011**, 13, 2801	10	87
73	Highly dispersed heterogeneous palladium catalysts by the introduction of plant tannin into porous Al2O3 supports. *Catalysis Communications*, **2011**, 12, 1000-1004	3.2	8
72	Highly active and selective catalytic transfer hydrogenolysis of □methylbenzyl alcohol catalyzed by supported Pd catalyst. *Catalysis Communications*, **2011**, 12, 1177-1182	3.2	11
71	Modification of collagen with a natural cross-linker, procyanidin. *International Journal of Biological Macromolecules*, **2011**, 48, 354-9	7.9	220
70	EFFECT OF PE/AG2O NANO-PACKAGING ON THE QUALITY OF APPLE SLICES. *Journal of Food Quality*, **2011**, 34, 171-176	2.7	38
69	Preparation of fibrous sulfated zirconia (SO42□ZrO2) solid acid catalyst using collagen fiber as the template and its application in esterification. *Journal of Molecular Catalysis A*, **2011**, 347, 46-51		23
68	Immobilization of catalase by using Zr(IV)-modified collagen fiber as the supporting matrix. *Process Biochemistry*, **2011**, 46, 2187-2193	4.8	31
67	Adsorptive Recovery of Uranium from Nuclear Fuel Industrial Wastewater by Titanium Loaded Collagen Fiber. *Chinese Journal of Chemical Engineering*, **2011**, 19, 592-597	3.2	18
66	Amphiphilic tannin-stabilized Rh nanopartciles: A highly active and reusable catalyst in biphasic aqueous□rganic system. *Catalysis Communications*, **2011**, 16, 210-214	3.2	13
65	On-demand drug delivery from temperature-responsive polyurethane membrane. *Reactive and Functional Polymers*, **2011**, 71, 525-535	4.6	32
64	Skin collagen fiber-based radar absorbing materials. *Science Bulletin*, **2011**, 56, 202-208		5
63	One-step in situassembly of size-controlled silver nanoparticles on polyphenol-grafted collagen fiber with enhanced antibacterial properties. *New Journal of Chemistry*, **2011**, 35, 2902	3.6	25

62	Catalytic hydrogenation of quinoline over recyclable palladium nanoparticles supported on tannin grafted collagen fibers. *Journal of Molecular Catalysis A*, **2011**, 341, 51-56		51
61	Adsorptive removal of Cu(II) from aqueous solutions using collagen-tannin resin. *Journal of Hazardous Materials*, **2011**, 186, 1058-63	12.8	54
60	Membrane formation temperature-dependent gas transport through thermo-sensitive polyurethane containing in situ-generated TiO2 nanoparticles. *Polymer*, **2011**, 52, 1856-1867	3.9	27
59	Assembly of Type I Collagen on PVA Film Induced by Glutaraldehyde Vapor. *Advanced Materials Research*, **2011**, 284-286, 1794-1799	0.5	0
58	Preparation of Pd-Ni Bimetallic Catalyst Supported on Polyphenol-Grafted Collagen Fiber and Its Catalytic Behavior in Nitrobenzene Hydrogenation. *Chinese Journal of Catalysis*, **2011**, 31, 1465-1472	11.3	
57	SIMULTANEOUS DETERMINATION OF CAFFEINE AND CATECHINS IN TEA EXTRACTS BY HPLC. *Journal of Liquid Chromatography and Related Technologies*, **2010**, 33, 491-498	1.3	10
56	One-step, size-controlled synthesis of gold nanoparticles at room temperature using plant tannin. *Green Chemistry*, **2010**, 12, 395-399	10	178
55	Using Collagen Fiber as a Template to Synthesize TiO2 and Fex/TiO2 Nanofibers and Their Catalytic Behaviors on the Visible Light-Assisted Degradation of Orange II. *Industrial & Engineering Chemistry Research*, **2010**, 49, 3194-3199	3.9	43
54	Liquid phase hydrogenation of olefins using heterogenized ruthenium complexes as high active and reusable catalyst. *Catalysis Communications*, **2010**, 11, 487-492	3.2	9
53	Thermosensitive polyurethane film and finished leather with controllable water vapor permeability. *Journal of Applied Polymer Science*, **2010**, 117, NA-NA	2.9	2
52	Separation of flavonoid and alkaloid using collagen fiber adsorbent. *Journal of Separation Science*, **2010**, 33, 2230-9	3.4	6
51	Tannin-immobilized mesoporous silica bead (BT-SiO2) as an effective adsorbent of Cr(III) in aqueous solutions. *Journal of Hazardous Materials*, **2010**, 173, 33-9	12.8	58
50	Fe(III)-loaded collagen fiber as a heterogeneous catalyst for the photo-assisted decomposition of Malachite Green. *Journal of Hazardous Materials*, **2010**, 174, 687-93	12.8	29
49	Adsorptive recovery of UO2(2+) from aqueous solutions using collagen-tannin resin. *Journal of Hazardous Materials*, **2010**, 179, 295-302	12.8	60
48	Adsorptive recovery of Au3+ from aqueous solutions using bayberry tannin-immobilized mesoporous silica. *Journal of Hazardous Materials*, **2010**, 183, 793-8	12.8	105
47	Preparation of platinum nanoparticles supported on bayberry tannin grafted silica bead and its catalytic properties in hydrogenation. *Journal of Molecular Catalysis A*, **2010**, 320, 40-46		28
46	Collagen fiber with surface-grafted polyphenol as a novel support for Pd(0) nanoparticles: Synthesis, characterization and catalytic application. *Materials Science and Engineering C*, **2010**, 30, 770-776	4.3	40
45	Separation of Proanthocyanidins into Oligomeric and Polymeric Components Using a Novel Collagen Fiber Adsorbent. *Journal of Liquid Chromatography and Related Technologies*, **2009**, 32, 1901-1913	1.3	1

44	Highly stable Pt nanoparticle catalyst supported by polyphenol-grafted collagen fiber and its catalytic application in the hydrogenation of olefins. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 1702-1711	3.5	16
43	Recovery of Th(IV) from aqueous solution by reassembled collagen-tannin fiber adsorbent. *Journal of Radioanalytical and Nuclear Chemistry*, **2009**, 280, 91-98	1.5	14
42	Pd(0) Nanoparticle Stabilized by Tannin-grafted SiO2 Beads and Its Application in Liquid-hydrogenation of Unsaturated Organic Compounds. *Catalysis Letters*, **2009**, 133, 192-200	2.8	11
41	Adsorption removal of phosphate in industrial wastewater by using metal-loaded skin split waste. *Journal of Hazardous Materials*, **2009**, 166, 1261-5	12.8	80
40	Hg(II) removal from aqueous solution by bayberry tannin-immobilized collagen fiber. *Journal of Hazardous Materials*, **2009**, 170, 1141-8	12.8	76
39	Heterogeneous hydrogenation of nitrobenzenes over recyclable Pd(0) nanoparticle catalysts stabilized by polyphenol-grafted collagen fibers. *Applied Catalysis A: General*, **2009**, 366, 44-56	5.1	95
38	Fe(III)-Immobilized Collagen Fiber: A Renewable Heterogeneous Catalyst for the Photoassisted Decomposition of Orange II. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1458-1463	3.9	10
37	Soluble amphiphilic tannin-stabilized Pd(0) nanoparticles: a highly active and selective homogeneous catalyst used in a biphasic catalytic system. *Chemical Communications*, **2009**, 4687-9	5.8	34
36	Determination of total catechins in tea extracts by HPLC and spectrophotometry. *Natural Product Research*, **2009**, 23, 93-100	2.3	37
35	Adsorptive Removal of As(III) from Aqueous Solution by Zr(IV)-Loaded Collagen Fiber. *Industrial & Engineering Chemistry Research*, **2008**, 47, 5623-5628	3.9	17
34	Using collagen fiber as a template to synthesize hierarchical mesoporous alumina fiber. *Langmuir*, **2008**, 24, 368-70	4	42
33	Synthesis of hierarchical mesoporous zirconia fiber by using collagen fiber as a template. *Journal of Materials Research*, **2008**, 23, 3263-3268	2.5	11
32	Heterogeneous Gold Nanoparticles Stabilized by Collagen and Their Application in Catalytic Reduction of 4-Nitrophenol. *Chemistry Letters*, **2008**, 37, 834-835	1.7	21
31	Adsorption of anionic dyes on Fe(III)-loaded collagen fibre from aqueous solution. *International Journal of Environment and Pollution*, **2008**, 34, 111	0.7	4
30	Adsorption of metal anions of vanadium(V) and chromium(VI) on Zr(IV)-impregnated collagen fiber. *Adsorption*, **2008**, 14, 55-64	2.6	74
29	Synthesis of porous carbon fibers from collagen fiber. *ChemSusChem*, **2008**, 1, 298-301	8.3	33
28	Water vapor permeability of the polyurethane/TiO2 nanohybrid membrane with temperature sensitivity. *Journal of Applied Polymer Science*, **2008**, 109, 3002-3007	2.9	23
27	The polyurethane/SiO2 nano-hybrid membrane with temperature sensitivity for water vapor permeation. *Journal of Membrane Science*, **2008**, 318, 71-78	9.6	64

26	Synthesis of unique mesoporous ZrO2-carbon fiber from collagen fiber. *Microporous and Mesoporous Materials*, **2008**, 116, 705-709	5.3	18
25	HPLC COUPLED WITH ION TRAP MS/MS FOR ANALYSIS OF TERTIARY BUTYLHYDROQUINONE IN EDIBLE OIL SAMPLES. *Journal of Food Lipids*, **2008**, 15, 1-12		11
24	Ultrasonic effects on titanium tanning of leather. *Ultrasonics Sonochemistry*, **2007**, 14, 305-13	8.9	7
23	Preparation of Fe(III)-immobilized collagen fiber for lysozyme adsorption. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 301, 85-93	5.1	21
22	Isolation and partial characterization of pepsin-soluble collagen from the skin of grass carp (Ctenopharyngodon idella). *Food Chemistry*, **2007**, 103, 906-912	8.5	180
21	Biodegradability of tannin-containing wastewater from leather industry. *Biodegradation*, **2007**, 18, 465-72	4.1	52
20	The polyurethane membranes with temperature sensitivity for water vapor permeation. *Journal of Membrane Science*, **2007**, 287, 192-197	9.6	55
19	Adsorption of bismuth(III) by bayberry tannin immobilized on collagen fiber. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 1301-1306	3.5	11
18	Adsorption Behavior of Phosphate on Metal-Ions-Loaded Collagen Fiber. *Industrial & Engineering Chemistry Research*, **2006**, 45, 3896-3901	3.9	63
17	The potential of wattle tannin extracts for fine use. *Natural Product Research*, **2006**, 20, 271-8	2.3	9
16	Interactions of gallotannins with proteins, amino acids, phospholipids and sugars. *Food Chemistry*, **2006**, 95, 250-254	8.5	59
15	Recovery of platinum(IV) and palladium(II) by bayberry tannin immobilized collagen fiber membrane from water solution. *Journal of Membrane Science*, **2006**, 278, 373-380	9.6	102
14	Collagen fiber immobilized Fe(III): a novel catalyst for photo-assisted degradation of dyes. *Chemical Communications*, **2005**, 5882-4	5.8	25
13	Adsorption Behaviors of Pt(II) and Pd(II) on Collagen Fiber Immobilized Bayberry Tannin. *Industrial & Engineering Chemistry Research*, **2005**, 44, 4221-4226	3.9	67
12	Adsorption of fluoride on zirconium(IV)-impregnated collagen fiber. *Environmental Science & Technology*, **2005**, 39, 4628-32	10.3	208
11	Time-dependent density functional investigation on electronic spectra of 4?-N-dimethylamino-3-hydroxyflavone. *Computational and Theoretical Chemistry*, **2005**, 731, 219-224		14
10	Production of ellagic acid from degradation of valonea tannins by Aspergillus niger and Candida utilis. *Journal of Chemical Technology and Biotechnology*, **2005**, 80, 1154-1159	3.5	35
9	Selective removal of tannins from medicinal plant extracts using a collagen fiber adsorbent. *Journal of the Science of Food and Agriculture*, **2005**, 85, 1285-1291	4.3	31

8	Adsorption recovery of thorium(IV) by Myrica rubra tannin and larch tannin immobilized onto collagen fibres. *Journal of Radioanalytical and Nuclear Chemistry*, **2004**, 260, 619-625	1.5	40
7	Adsorption of Cu(II) from aqueous solutions by tannins immobilized on collagen. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 335-342	3.5	32
6	Adsorption of UO22+ on tannins immobilized collagen fiber membrane. *Journal of Membrane Science*, **2004**, 243, 235-241	9.6	45
5	Collagen fiber immobilized Myrica rubra tannin and its adsorption to UO2(2+). *Environmental Science & Technology*, **2004**, 38, 324-8	10.3	82
4	Collagen-Fiber-Immobilized Tannins and Their Adsorption of Au(III). *Industrial & Engineering Chemistry Research*, **2004**, 43, 2222-2227	3.9	78
3	Selective Adsorption of Vegetable Tannins onto Collagen Fibers. *Industrial & Engineering Chemistry Research*, **2003**, 42, 3397-3402	3.9	36
2	Synthesis of gallotannins. *Carbohydrate Research*, **2001**, 335, 245-50	2.9	14
1	Selective degradation of hemicellulose into oligosaccharides assisted by ZrOCl2 and their potential application as a tanning agent. *Green Chemistry*,	10	3