

Xue-Pin Liao

List of Publications by Year in descending order

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77
papers

3,193
citations

159585
30
h-index

155660
55
g-index

77
all docs

77
docs citations

77
times ranked

4182
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering robust metal-phenolic network membranes for uranium extraction from seawater. <i>Energy and Environmental Science</i> , 2019, 12, 607-614.	30.8	259
2	Adsorption of Fluoride on Zirconium(IV)-Impregnated Collagen Fiber. <i>Environmental Science & Technology</i> , 2005, 39, 4628-4632.	10.0	224
3	One-step, size-controlled synthesis of gold nanoparticles at room temperature using plant tannin. <i>Green Chemistry</i> , 2010, 12, 395-399.	9.0	198
4	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. <i>Green Chemistry</i> , 2011, 13, 651.	9.0	167
5	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. <i>Journal of Materials Chemistry</i> , 2012, 22, 11933.	6.7	134
6	Effect of ultrasound on the activity and conformation of α -amylase, papain and pepsin. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 930-936.	8.2	117
7	One-step room-temperature synthesis of Au@Pd core-shell nanoparticles with tunable structure using plant tannin as reductant and stabilizer. <i>Green Chemistry</i> , 2011, 13, 950.	9.0	109
8	Targeted Therapy against Metastatic Melanoma Based on Self-Assembled Metal-Phenolic Nanocomplexes Comprised of Green Tea Catechin. <i>Advanced Science</i> , 2019, 6, 1801688.	11.2	109
9	Collagen Fiber Immobilized Myrica rubra Tannin and Its Adsorption to. <i>Environmental Science & Technology</i> , 2004, 38, 324-328.	10.0	96
10	Synthesis of highly active and reusable supported gold nanoparticles and their catalytic applications to 4-nitrophenol reduction. <i>Green Chemistry</i> , 2011, 13, 2801.	9.0	95
11	One-Pot Facile Synthesis of Cerium-Doped TiO ₂ Mesoporous Nanofibers Using Collagen Fiber As the Biotemplate and Its Application in Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9739-9746.	3.1	88
12	Adsorption of metal anions of vanadium(V) and chromium(VI) on Zr(IV)-impregnated collagen fiber. <i>Adsorption</i> , 2008, 14, 55-64.	3.0	85
13	Controllable Synthesis of Monolayer Poly(acrylic acid) on the Channel Surface of Mesoporous Alumina for Pb(II) Adsorption. <i>Langmuir</i> , 2018, 34, 7859-7868.	3.5	78
14	Ferromagnetic hierarchical carbon nanofiber bundles derived from natural collagen fibers: truly lightweight and high-performance microwave absorption materials. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10146-10153.	5.5	75
15	Adsorption Behaviors of Pt(II) and Pd(II) on Collagen Fiber Immobilized Bayberry Tannin. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 4221-4226.	3.7	71
16	Adsorption Behavior of Phosphate on Metal-Ions-Loaded Collagen Fiber. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 3896-3901.	3.7	67
17	Catalytic hydrogenation of quinoline over recyclable palladium nanoparticles supported on tannin grafted collagen fibers. <i>Journal of Molecular Catalysis A</i> , 2011, 341, 51-56.	4.8	58
18	Lightweight and high-performance electromagnetic radiation shielding composites based on a surface coating of Cu@Ag nanoflakes on a leather matrix. <i>Journal of Materials Chemistry C</i> , 2016, 4, 914-920.	5.5	56

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19	Advanced X-ray Shielding Materials Enabled by the Coordination of Well-Dispersed High Atomic Number Elements in Natural Leather. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19916-19926.	8.0	48
20	Skin Collagen Fiber-Biotemplated Synthesis of Size-Tunable Silver Nanoparticle-Embedded Hierarchical Intertextures with Lightweight and Highly Efficient Microwave Absorption Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8188-8195.	3.1	45
21	Using Collagen Fiber as a Template to Synthesize Hierarchical Mesoporous Alumina Fiber. <i>Langmuir</i> , 2008, 24, 368-370.	3.5	44
22	Absorption and Reflection Contributions to the High Performance of Electromagnetic Waves Shielding Materials Fabricated by Compositing Leather Matrix with Metal Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14036-14044.	8.0	44
23	Adsorption recovery of thorium(IV) by <i>Myrica rubra</i> tannin and larch tannin immobilized onto collagen fibres. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 260, 619-625.	1.5	43
24	Hierarchically structured C@SnO ₂ @C nanofiber bundles with high stability and effective ambipolar diffusion kinetics for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18783-18791.	10.3	42
25	Adsorption of Cu(II) from aqueous solutions by tannins immobilized on collagen. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 335-342.	3.2	40
26	Research on X-ray shielding performance of wearable Bi/Ce-natural leather composite materials. <i>Journal of Hazardous Materials</i> , 2020, 398, 122943.	12.4	39
27	Selective removal of tannins from medicinal plant extracts using a collagen fiber adsorbent. <i>Journal of the Science of Food and Agriculture</i> , 2005, 85, 1285-1291.	3.5	36
28	Using plant tannin as natural amphiphilic stabilizer to construct an aqueous-organic biphasic system for highly active and selective hydrogenation of quinoline. <i>Catalysis Science and Technology</i> , 2013, 3, 1612.	4.1	35
29	Effect of ultrasonic pretreatment on kinetics of gelatin hydrolysis by collagenase and its mechanism. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 495-501.	8.2	35
30	Lightweight and Flexible Bi@Bi-La Natural Leather Composites with Superb X-ray Radiation Shielding Performance and Low Secondary Radiation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54117-54126.	8.0	31
31	Facile synthesis of mesoporous sulfated Ce/TiO ₂ nanofiber solid superacid with nanocrystalline frameworks by using collagen fibers as a biotemplate and its application in esterification. <i>RSC Advances</i> , 2014, 4, 4010-4019.	3.6	30
32	Self-Assembled Metal-Phenolic Nanoparticles for Enhanced Synergistic Combination Therapy against Colon Cancer. <i>Advanced Biology</i> , 2019, 3, e1800241.	3.0	30
33	Analysis of volatile compounds in Chinese soy sauces moromi cultured by different fermentation processes. <i>Food Science and Biotechnology</i> , 2013, 22, 605-612.	2.6	29
34	One-step in situ assembly of size-controlled silver nanoparticles on polyphenol-grafted collagen fiber with enhanced antibacterial properties. <i>New Journal of Chemistry</i> , 2011, 35, 2902.	2.8	28
35	Lightweight and Wearable X-ray Shielding Material with Biological Structure for Low Secondary Radiation and Metabolic Saving Performance. <i>Advanced Materials Technologies</i> , 2020, 5, 2000240.	5.8	25
36	Microwave-Assisted Sulfonation of Lignin for the Fabrication of a High-Performance Dye Dispersant. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9053-9061.	6.7	24

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37	A low-cost and water resistant biomass adhesive derived from the hydrolysate of leather waste. RSC Advances, 2017, 7, 4024-4029.	3.6	23
38	Irradiation-stable hydrous titanium oxide-immobilized collagen fibers for uranium removal from radioactive wastewater. Journal of Environmental Management, 2021, 283, 112001.	7.8	23
39	Polyphenol modified natural collagen fibrous network towards sustainable and antibacterial microfiltration membrane for efficient water disinfection. Water Research, 2022, 218, 118469.	11.3	22
40	Synthesis of unique mesoporous ZrO ₂ -carbon fiber from collagen fiber. Microporous and Mesoporous Materials, 2008, 116, 705-709.	4.4	20
41	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	20
42	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.	3.7	19
43	Collagen Fiber/Fe ₃ O ₄ /Polypyrrole Nanocomposites for Absorption-Type Electromagnetic Interference Shielding and Radar Stealth. ACS Applied Nano Materials, 2020, 3, 11906-11915.	5.0	19
44	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.	8.0	19
45	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.	3.2	18
46	Natural collagen fiber-enabled facile synthesis of carbon@Fe ₃ O ₄ core-shell nanofiber bundles and their application as ultrahigh-rate anode materials for Li-ion batteries. RSC Advances, 2016, 6, 10824-10830.	3.6	17
47	Collagen Peptide Provides <i>Saccharomyces cerevisiae</i> with Robust Stress Tolerance for Enhanced Bioethanol Production. ACS Applied Materials & Interfaces, 2020, 12, 53879-53890.	8.0	17
48	Adsorption of bismuth(III) by bayberry tannin immobilized on collagen fiber. Journal of Chemical Technology and Biotechnology, 2006, 81, 1301-1306.	3.2	16
49	A collagen-based electrolyte-locked separator enables capacitor to have high safety and ionic conductivity. Journal of Energy Chemistry, 2020, 47, 324-332.	12.9	16
50	Synthesis of hierarchical mesoporous zirconia fiber by using collagen fiber as a template. Journal of Materials Research, 2008, 23, 3263-3268.	2.6	15
51	Liquid phase hydrogenation of olefins using heterogenized ruthenium complexes as high active and reusable catalyst. Catalysis Communications, 2010, 11, 487-492.	3.3	12
52	Physicochemical Properties and Surface Activities of Collagen Hydrolysate-Based Surfactants with Varied Oleoyl Group Grafting Degree. Industrial & Engineering Chemistry Research, 2014, 53, 8501-8508.	3.7	12
53	A facile synthesis of a highly stable superhydrophobic nanofibrous film for effective oil/water separation. RSC Advances, 2016, 6, 82352-82358.	3.6	12
54	Immobilization of <i>Saccharomyces cerevisiae</i> using polyethyleneimine grafted collagen fibre as support and investigations of its fermentation performance. Biotechnology and Biotechnological Equipment, 2018, 32, 109-115.	1.3	12

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55	Pd(0) Nanoparticle Stabilized by Tannin-grafted SiO ₂ Beads and Its Application in Liquid-hydrogenation of Unsaturated Organic Compounds. <i>Catalysis Letters</i> , 2009, 133, 192-200.	2.6	11
56	Adsorption Chromatography Separation of Baicalein and Baicalin Using Collagen Fiber Adsorbent. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2425-2433.	3.7	11
57	Volatile Compounds of Raw Spirits from Different Distilling Stages of Luzhou-flavor Spirit. <i>Food Science and Technology Research</i> , 2014, 20, 283-293.	0.6	11
58	Adaptations of <i>Bacillus shacheensis</i> HNA-14 required for long-term survival under osmotic challenge: a multi-omics perspective. <i>RSC Advances</i> , 2018, 8, 27525-27536.	3.6	10
59	Natural polyphenol-based nanoengineering of collagen-constructed hemoperfusion adsorbent for the excretion of heavy metals. <i>Journal of Hazardous Materials</i> , 2022, 428, 128145.	12.4	10
60	Polyethyleneimine/hydrated titanium oxide-functionalized fibrous adsorbent for removing cobalt: Adsorption performance and irradiation stability. <i>Environmental Research</i> , 2022, 211, 112916.	7.5	10
61	Pd nanoparticles immobilized on boehmite by using tannic acid as structure-directing agent and stabilizer: a high performance catalyst for hydrogenation of olefins. <i>Research on Chemical Intermediates</i> , 2014, 40, 249-258.	2.7	9
62	Investigation of collagen hydrolysate used as carbon and nitrogen source in the fermentation of <i>Bacillus pumilus</i> . <i>Process Biochemistry</i> , 2017, 55, 11-16.	3.7	8
63	Skin collagen fiber-based radar absorbing materials. <i>Science Bulletin</i> , 2011, 56, 202-208.	1.7	7
64	Glycine betaine enhances biodegradation of phenol in high saline environments by the halophilic strain <i>Oceanobacillus</i> sp. PT-20. <i>RSC Advances</i> , 2019, 9, 29205-29216.	3.6	7
65	Synthesis of Catechin-Rare Earth Complex with Efficient and Broad Spectrum Anti-Biofilm Activity. <i>Chemistry and Biodiversity</i> , 2020, 17, e1900734.	2.1	7
66	Collagen peptide provides <i>Streptomyces coelicolor</i> CGMCC 4.7172 with abundant precursors for enhancing undecylprodigiosin production. <i>Journal of Leather Science and Engineering</i> , 2021, 3, .	6.0	7
67	Molecular level understanding of the role of aldehyde in vegetable aldehyde collagen crosslinking reaction. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2832-2839.	2.0	6
68	Natural leather based gamma-ray shielding materials enabled by the coordination of well-dispersed Bi ³⁺ /Ba ²⁺ ions and RE ₂ O ₃ coating. <i>Journal of Leather Science and Engineering</i> , 2022, 4, .	6.0	6
69	Recyclable plant tannin-chelated Rh(III) complex catalysts for aqueous organic biphasic hydrogenation of quinoline. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1104-1110.	3.2	4
70	Radionuclide tolerance mechanism of plants for ultrasensitive enrichment of low content of thorium with exceptional selectivity coefficient. <i>Journal of Hazardous Materials</i> , 2019, 380, 120893.	12.4	4
71	Immobilization of Ytterbium by Plant Polyphenols for Antibiofilm Materials with Highly Effective Activity and Long-Term Stability. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18558-18566.	3.7	4
72	Hierarchical collagen fibers complexed with tannic acid and Fe ³⁺ as a heterogeneous catalyst for enhancing sulfate radical-based advanced oxidation process. <i>Environmental Science and Pollution Research</i> , 2022, 29, 58675-58684.	5.3	4

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73	Separation of Proanthocyanidins into Oligomeric and Polymeric Components Using a Novel Collagen Fiber Adsorbent. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009, 32, 1901-1913.	1.0	3
74	Synthesis, Characterization, and Antibacterial Activity of Rare Earth-Catechin Complexes. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 543-550.	4.9	3
75	Development of a Rapid Discrimination Tool for Luzhou-flavor Pit Mud Classification by the Kohonen Artificial Neural Network Model. <i>Food Analytical Methods</i> , 2015, 8, 1734-1738.	2.6	2
76	Self-Assembly: Targeted Therapy against Metastatic Melanoma Based on Self-Assembled Metal-Phenolic Nanocomplexes Comprised of Green Tea Catechin (<i>Adv. Sci.</i> 5/2019). <i>Advanced Science</i> , 2019, 6, 1970028.	11.2	2
77	Metal-Phenolic Nanoparticles: Self-Assembled Metal-Phenolic Nanoparticles for Enhanced Synergistic Combination Therapy against Colon Cancer (<i>Adv. Biosys.</i> 2/2019). <i>Advanced Biology</i> , 2019, 3, 1970022.	3.0	1