Xin Huang

List of Publications by Year in descending order

47 papers	1,888 citations	304743 22 h-index	254184 43 g-index
49 all docs	49 docs citations	49 times ranked	3032 citing authors

#	Article	IF	Citations
1	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.	6.7	6
2	Soft while strong mechanical shock tolerable e-skins. Journal of Materials Chemistry A, 2022, 10, 8186-8194.	10.3	4
3	Collagen Fiberâ€Based Advanced Separation Materials: Recent Developments and Future Perspectives. Advanced Materials, 2022, 34, e2107891.	21.0	14
4	Collagen fiber membrane as multi-functional support enabled rational design of ultrahigh-flux separation membrane for the remediation of oil contamination in water. Journal of Hazardous Materials, 2022, 432, 128649.	12.4	13
5	Steam activation tuned porous structure and surface wetting behaviors of mesoporous biochars for corrosive oily wastewater treatments. Journal of Chemical Technology and Biotechnology, 2022, 97, 2179-2185.	3.2	1
6	Tannery solid waste-derived cross-scale deformable piezoresistive sensors for monitoring human body motions. Journal of Materials Chemistry C, 2022, 10, 8199-8205.	5.5	4
7	Self-driven directional dehydration enabled eco-friendly manufacture of chrome-free leather. Journal of Leather Science and Engineering, 2022, 4, .	6.0	6
8	Tanning agent free leather making enabled by the dispersity of collagen fibers combined with superhydrophobic coating. Green Chemistry, 2021, 23, 3581-3587.	9.0	18
9	Insights into Regional Wetting Behaviors of Amphiphilic Collagen for Dual Separation of Emulsions. ACS Applied Materials & Interfaces, 2021, 13, 18209-18217.	8.0	12
10	Collagen fiber membrane-derived chemically and mechanically durable superhydrophobic membrane for high-performance emulsion separation. Journal of Leather Science and Engineering, 2021, 3, .	6.0	33
11	Synergistic Combination of the Capillary Effect of Collagen Fibers and Size-Sieving Merits of Metalâ€“Organic Frameworks for Emulsion Separation with High Flux. Industrial & Engineering Chemistry Research, 2020, 59, 14925-14934.	3.7	16
12	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.	10.3	23
13	Efficient separation of viscous emulsion through amphiprotic collagen nanofibers-based membrane. Journal of Membrane Science, 2019, 588, 117209.	8.2	24
14	Collagen-based breathable, humidity-ultrastable and degradable on-skin device. Journal of Materials Chemistry C, 2019, 7, 2548-2556.	5.5	29
15	Binary oxide nanofiber bundle supported Keggin-type phosphotungstic acid for the synthesis of 5-hydroxymethylfurfural. Catalysis Communications, 2019, 123, 96-99.	3.3	9
16	Leather enabled multifunctional thermal camouflage armor. Chemical Engineering Science, 2019, 196, 64-71.	3.8	29
17	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.	8.0	44
18	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.	4.7	33

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19	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.	12.7	20
20	Durable superhydrophobic materials enabled by abrasion-triggered roughness regeneration. Chemical Engineering Journal, 2018, 336, 633-639.	12.7	39
21	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.	3.7	24
22	Polyphenolicâ€Chemistryâ€Enabled, Mechanically Robust, Flame Resistant and Superhydrophobic Membrane for Separation of Mixed Surfactantâ€Stabilized Emulsions. Chemistry - A European Journal, 2018, 24, 10953-10958.	3.3	6
23	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.	10.3	22
24	A low-cost and water resistant biomass adhesive derived from the hydrolysate of leather waste. RSC Advances, 2017, 7, 4024-4029.	3.6	23
25	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
26	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.	7.8	22
27	Increasing rigidness of carbon coating for improvement of electrochemical performances of Co3O4 in Li-ion batteries. Carbon, 2016, 104, 1-9.	10.3	22
28	A facile synthesis of a highly stable superhydrophobic nanofibrous film for effective oil/water separation. RSC Advances, 2016, 6, 82352-82358.	3.6	12
29	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.	10.3	42
30	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.	5.5	56
31	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.	5.5	75
32	Ultrahigh Rate Capabilities of Lithiumâ€Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration. Advanced Materials, 2014, 26, 1296-1303.	21.0	138
33	Lithium-Ion Batteries: Ultrahigh Rate Capabilities of Lithium-Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overloc	21.4	
34	Facile synthesis of mesoporous sulfated Ce/TiO2nanofiber solid superacid with nanocrystalline frameworks by using collagen fibers as a biotemplate and its application in esterification. RSC Advances, 2014, 4, 4010-4019.	3.6	30
35	Carbon Nanotubeâ€Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Liâ€Oxygen Batteries. Advanced Functional Materials, 2014, 24, 6516-6523.	14.9	157
36	Carbon buffered-transition metal oxidenanoparticleâ€“graphene hybrid nanosheets as high-performance anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 6901-6907.	10.3	28

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37	Monodispersed Ag nanoparticles loaded on the PVP-assisted synthetic Bi2O2CO3 microspheres with enhanced photocatalytic and supercapacitive performances. Journal of Materials Chemistry A, 2013, 1, 7630.	10.3	108
38	Immobilization of plant polyphenol stabilized-Sn nanoparticles onto carbon nanotubes and their application in rechargeable lithium ion batteries. RSC Advances, 2013, 3, 5310.	3.6	13
39	Carbon inverse opal entrapped with electrode active nanoparticles as high-performance anode for lithium-ion batteries. Scientific Reports, 2013, 3, 2317.	3.3	77
40	Preparation of highly active and reusable heterogeneous Al2O3â€“Pd catalysts by the solâ€“gel method using bayberry tannin as stabilizer. Research on Chemical Intermediates, 2012, 38, 1609-1618.	2.7	4
41	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.	9.0	167
42	One-step room-temperature synthesis of Au@Pd coreâ€“shell nanoparticles with tunable structure using plant tannin as reductant and stabilizer. Green Chemistry, 2011, 13, 950.	9.0	109
43	Synthesis of highly active and reusable supported gold nanoparticles and their catalytic applications to 4-nitrophenol reduction. Green Chemistry, 2011, 13, 2801.	9.0	95
44	Preparation of fibrous sulfated zirconia (SO42â^'/ZrO2) solid acid catalyst using collagen fiber as the template and its application in esterification. Journal of Molecular Catalysis A, 2011, 347, 46-51.	4.8	29
45	One-step, size-controlled synthesis of gold nanoparticles at room temperature using plant tannin. Green Chemistry, 2010, 12, 395-399.	9.0	198
46	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.	2.6	11
47	Adsorptive Removal of As(III) from Aqueous Solution by Zr(IV)-Loaded Collagen Fiber. Industrial & Engineering Chemistry Research, 2008, 47, 5623-5628.	3.7	18