

Xin Huang

List of Publications by Year in descending order

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47
papers

1,888
citations

304743

22
h-index

254184

43
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49
all docs

49
docs citations

49
times ranked

3032
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 6516-6523.	14.9	157
4	Ultrahigh Rate Capabilities of Lithium-Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration. <i>Advanced Materials</i> , 2014, 26, 1296-1303.	21.0	138
5	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
6	Monodispersed Ag nanoparticles loaded on the PVP-assisted synthetic Bi ₂ O ₂ CO ₃ microspheres with enhanced photocatalytic and supercapacitive performances. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7630.	10.3	108
7	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
8	Carbon inverse opal entrapped with electrode active nanoparticles as high-performance anode for lithium-ion batteries. <i>Scientific Reports</i> , 2013, 3, 2317.	3.3	77
9	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
10	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
11	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
12	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
13	Durable superhydrophobic materials enabled by abrasion-triggered roughness regeneration. <i>Chemical Engineering Journal</i> , 2018, 336, 633-639.	12.7	39
14	Fabrication of 3D porous superhydrophobic sponges using plant polyphenol-Fe ³⁺ complexes as adhesive and their applications in oil/water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 551, 9-16.	4.7	33
15	Collagen fiber membrane-derived chemically and mechanically durable superhydrophobic membrane for high-performance emulsion separation. <i>Journal of Leather Science and Engineering</i> , 2021, 3, .	6.0	33
16	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
17	Preparation of fibrous sulfated zirconia (SO ₄ ²⁻ /ZrO ₂) solid acid catalyst using collagen fiber as the template and its application in esterification. <i>Journal of Molecular Catalysis A</i> , 2011, 347, 46-51.	4.8	29
18	Collagen-based breathable, humidity-ultrastable and degradable on-skin device. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2548-2556.	5.5	29

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19	Leather enabled multifunctional thermal camouflage armor. <i>Chemical Engineering Science</i> , 2019, 196, 64-71.	3.8	29
20	Carbon buffered-transition metal oxidenanoparticle-graphene hybrid nanosheets as high-performance anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6901-6907.	10.3	28
21	Plant Polyphenols as Multifunctional Platforms To Fabricate Three-Dimensional Superhydrophobic Foams for Oil/Water and Emulsion Separation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16442-16450.	3.7	24
22	Efficient separation of viscous emulsion through amphiprotic collagen nanofibers-based membrane. <i>Journal of Membrane Science</i> , 2019, 588, 117209.	8.2	24
23	A low-cost and water resistant biomass adhesive derived from the hydrolysate of leather waste. <i>RSC Advances</i> , 2017, 7, 4024-4029.	3.6	23
24	Collagen fibers with tuned wetting properties for dual separation of oil-in-water and water-in-oil emulsion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24388-24392.	10.3	23
25	Increasing rigidity of carbon coating for improvement of electrochemical performances of Co ₃ O ₄ in Li-ion batteries. <i>Carbon</i> , 2016, 104, 1-9.	10.3	22
26	Fast-pulverization enabled simultaneous enhancement on cycling stability and rate capability of C@NiFe ₂ O ₄ hierarchical fibrous bundle. <i>Journal of Power Sources</i> , 2017, 363, 209-217.	7.8	22
27	Competitive adsorption for simultaneous removal of emulsified water and surfactants from mixed surfactant-stabilized emulsions with high flux. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14058-14064.	10.3	22
28	Close-packing of hierarchically structured C@Sn@C nanofibers for high-performance Li-ion battery with large gravimetric and volumetric energy densities. <i>Chemical Engineering Journal</i> , 2018, 344, 625-632.	12.7	20
29	Collagen Fiber Membrane as an Absorptive Substrate To Coat with Carbon Nanotubes-Encapsulated Metal Nanoparticles for Lightweight, Wearable, and Absorption-Dominated Shielding Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8553-8562.	3.7	19
30	Absorptive Removal of As(III) from Aqueous Solution by Zr(IV)-Loaded Collagen Fiber. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 5623-5628.	3.7	18
31	Tanning agent free leather making enabled by the dispersity of collagen fibers combined with superhydrophobic coating. <i>Green Chemistry</i> , 2021, 23, 3581-3587.	9.0	18
32	Synergistic Combination of the Capillary Effect of Collagen Fibers and Size-Sieving Merits of Metal-Organic Frameworks for Emulsion Separation with High Flux. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14925-14934.	3.7	16
33	Collagen Fiber-Based Advanced Separation Materials: Recent Developments and Future Perspectives. <i>Advanced Materials</i> , 2022, 34, e2107891.	21.0	14
34	Immobilization of plant polyphenol stabilized-Sn nanoparticles onto carbon nanotubes and their application in rechargeable lithium ion batteries. <i>RSC Advances</i> , 2013, 3, 5310.	3.6	13
35	Collagen fiber membrane as multi-functional support enabled rational design of ultrahigh-flux separation membrane for the remediation of oil contamination in water. <i>Journal of Hazardous Materials</i> , 2022, 432, 128649.	12.4	13
36	A facile synthesis of a highly stable superhydrophobic nanofibrous film for effective oil/water separation. <i>RSC Advances</i> , 2016, 6, 82352-82358.	3.6	12

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37	Insights into Regional Wetting Behaviors of Amphiphilic Collagen for Dual Separation of Emulsions. ACS Applied Materials & Interfaces, 2021, 13, 18209-18217.	8.0	12
38	Pd(0) Nanoparticle Stabilized by Tannin-grafted SiO ₂ Beads and Its Application in Liquid-hydrogenation of Unsaturated Organic Compounds. Catalysis Letters, 2009, 133, 192-200.	2.6	11
39	Binary oxide nanofiber bundle supported Keggin-type phosphotungstic acid for the synthesis of 5-hydroxymethylfurfural. Catalysis Communications, 2019, 123, 96-99.	3.3	9
40	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.	3.3	6
41	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
42	Self-driven directional dehydration enabled eco-friendly manufacture of chrome-free leather. Journal of Leather Science and Engineering, 2022, 4, .	6.0	6
43	Preparation of highly active and reusable heterogeneous Al ₂ O ₃ -Pd catalysts by the sol-gel method using bayberry tannin as stabilizer. Research on Chemical Intermediates, 2012, 38, 1609-1618.	2.7	4
44	Lithium-Ion Batteries: Ultrahigh Rate Capabilities of Lithium-Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration (Adv. Mater.)	7.1	10
45	Soft while strong mechanical shock tolerable e-skins. Journal of Materials Chemistry A, 2022, 10, 8186-8194.	10.3	4
46	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
47	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