

Qingfeng Sun

List of Publications by Year in descending order

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102
papers

4,153
citations

94433

37
h-index

128289

60
g-index

104
all docs

104
docs citations

104
times ranked

4941
citing authors

#	ARTICLE	IF	CITATIONS
1	A binder-free high silicon content flexible anode for Li-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 848-858.	30.8	245
2	A wood-derived polypyrrole composite as a photothermal conversion device for solar evaporation enhancement. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20706-20712.	10.3	189
3	Fabrication and characterization of nanofibrillated cellulose and its aerogels from natural pine needles. <i>Carbohydrate Polymers</i> , 2015, 119, 202-209.	10.2	152
4	Fabrication of cellulose-based aerogels from waste newspaper without any pretreatment and their use for absorbents. <i>Carbohydrate Polymers</i> , 2015, 123, 150-156.	10.2	143
5	Green and facile fabrication of carbon aerogels from cellulose-based waste newspaper for solving organic pollution. <i>Carbohydrate Polymers</i> , 2016, 136, 95-100.	10.2	141
6	Lignocellulose Aerogel from Wood-Ionic Liquid Solution (1-Allyl-3-methylimidazolium Chloride) under Freezing and Thawing Conditions. <i>Biomacromolecules</i> , 2011, 12, 1860-1867.	5.4	137
7	Cellulose-Based Hybrid Structural Material for Radiative Cooling. <i>Nano Letters</i> , 2021, 21, 397-404.	9.1	135
8	Fabrication of mesoporous lignocellulose aerogels from wood via cyclic liquid nitrogen freezing-thawing in ionic liquid solution. <i>Journal of Materials Chemistry</i> , 2012, 22, 13548.	6.7	120
9	3D assembly based on 2D structure of Cellulose Nanofibril/Graphene Oxide Hybrid Aerogel for Adsorptive Removal of Antibiotics in Water. <i>Scientific Reports</i> , 2017, 7, 45914.	3.3	114
10	Hierarchical Ni-Co-S@Ni-W-O core-shell nanosheet arrays on nickel foam for high-performance asymmetric supercapacitors. <i>Nano Research</i> , 2018, 11, 1415-1425.	10.4	96
11	Implanting FeCo/C nanocages with tunable electromagnetic parameters in anisotropic wood carbon aerogels for efficient microwave absorption. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18863-18871.	10.3	94
12	Vertically aligned nanorod-like rutile TiO ₂ single crystal nanowire bundles with superior electron transport and photoelectrocatalytic properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 2465-2472.	6.7	84
13	One Step Construction of Nitrogen-Carbon Derived from <i>Bradyrhizobium japonicum</i> for Supercapacitor Applications with a Soybean Leaf as a Separator. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4695-4704.	6.7	82
14	Growth of hydrophobic TiO ₂ on wood surface using a hydrothermal method. <i>Journal of Materials Science</i> , 2011, 46, 7706-7712.	3.7	73
15	Naturally three-dimensional laminated porous carbon network structured short nano-chains bridging nanospheres for energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15759-15770.	10.3	72
16	Cellulose as an adhesion agent for the synthesis of lignin aerogel with strong mechanical performance, Sound-absorption and thermal insulation. <i>Scientific Reports</i> , 2016, 6, 32383.	3.3	70
17	All-round utilization of biomass derived all-solid-state asymmetric carbon-based supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 349-359.	9.4	70
18	Fabrication of hydrophobic, electrically conductive and flame-resistant carbon aerogels by pyrolysis of regenerated cellulose aerogels. <i>Carbohydrate Polymers</i> , 2015, 118, 115-118.	10.2	63

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19	Improvement of water resistance and dimensional stability of wood through titanium dioxide coating. <i>Holzforschung</i> , 2010, 64, .	1.9	62
20	A 3D titanate aerogel with cellulose as the adsorption-aggregator for highly efficient water purification. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5813-5819.	10.3	62
21	Biomimetic taro leaf-like films decorated on wood surfaces using soft lithography for superparamagnetic and superhydrophobic performance. <i>Journal of Materials Science</i> , 2017, 52, 7428-7438.	3.7	61
22	A simple, one-step hydrothermal approach to durable and robust superparamagnetic, superhydrophobic and electromagnetic wave-absorbing wood. <i>Scientific Reports</i> , 2016, 6, 35549.	3.3	60
23	Anisotropic, Flexible Wood Hydrogels and Wrinkled, Electrodeposited Film Electrodes for Highly Sensitive, Wide-Range Pressure Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43024-43031.	8.0	59
24	Artificial Wooden Nacre: A High Specific Strength Engineering Material. <i>ACS Nano</i> , 2020, 14, 2036-2043.	14.6	57
25	Improved weathering performance and wettability of wood protected by CeO ₂ coating deposited onto the surface. <i>Holzforschung</i> , 2014, 68, 345-351.	1.9	54
26	Processing Lignocellulose-Based Composites into an Ultrastrong Structural Material. <i>ACS Nano</i> , 2019, 13, 371-376.	14.6	53
27	Self-photodegradation of formaldehyde under visible-light by solid wood modified via nanostructured Fe-doped WO ₃ accompanied with superior dimensional stability. <i>Journal of Hazardous Materials</i> , 2017, 328, 127-139.	12.4	49
28	Fabrication of Cellulose Nanofiber/AlOOH Aerogel for Flame Retardant and Thermal Insulation. <i>Materials</i> , 2017, 10, 311.	2.9	49
29	Testing of the superhydrophobicity of a zinc oxide nanorod array coating on wood surface prepared by hydrothermal treatment. <i>Holzforschung</i> , 2012, 66, 739-744.	1.9	48
30	Fabrication of nitrogen-doped porous electrically conductive carbon aerogel from waste cabbage for supercapacitors and oil/water separation. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4334-4344.	2.2	48
31	Double-Network Hierarchical-Porous Piezoresistive Nanocomposite Hydrogel Sensors Based on Compressive Cellulosic Hydrogels Deposited with Silver Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7480-7488.	6.7	48
32	Fabrication of superhydrophobic bamboo timber based on an anatase TiO ₂ film for acid rain protection and flame retardancy. <i>RSC Advances</i> , 2015, 5, 62265-62272.	3.6	45
33	One-step solvothermal deposition of ZnO nanorod arrays on a wood surface for robust superamphiphobic performance and superior ultraviolet resistance. <i>Scientific Reports</i> , 2016, 6, 35505.	3.3	45
34	Preparation, characterization and oil adsorption properties of cellulose aerogels from four kinds of plant materials via a NaOH/PEG aqueous solution. <i>Fibers and Polymers</i> , 2015, 16, 302-307.	2.1	44
35	Ultralight and hydrophobic nanofibrillated cellulose aerogels from coconut shell with ultrastrong adsorption properties. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	43
36	Nitrogen, Sulfur, Phosphorous Co-doped Interconnected Porous Carbon Nanosheets with High Defect Density for Enhancing Supercapacitor and Lithium-ion Battery Properties. <i>ChemElectroChem</i> , 2018, 5, 2367-2375.	3.4	40

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37	Preparation, characterization, and antibacterial properties of silver nanoparticles embedded into cellulose aerogels. <i>Polymer Composites</i> , 2016, 37, 1137-1142.	4.6	38
38	Cellulose Fibers Constructed Convenient Recyclable 3D Graphene-Formicary-like Bi_2O_3 Aerogels for the Selective Capture of Iodide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20554-20560.	8.0	38
39	Stress sensitive electricity based on Ag/cellulose nanofiber aerogel for self-reporting. <i>Carbohydrate Polymers</i> , 2017, 168, 265-273.	10.2	38
40	WC_{1-x} -Coupled 3D Porous Defective gC_3N_4 for Efficient Photocatalytic Overall Water Splitting. <i>Solar Rrl</i> , 2019, 3, 1800341.	5.8	38
41	Superhydrophobic conductive wood with oil repellency obtained by coating with silver nanoparticles modified by fluoroalkyl silane. <i>Holzforschung</i> , 2016, 70, 63-68.	1.9	37
42	Prolonging the combustion duration of wood by TiO_2 coating synthesized using cosolvent-controlled hydrothermal method. <i>Journal of Materials Science</i> , 2010, 45, 6661-6667.	3.7	36
43	High-loading individually dispersed NiCo_2O_4 anchoring on checkerboard-like C/CNT nanosheets as a binder-free high rate electrode for lithium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3632-3641.	10.3	36
44	Improved UV resistance in wood through the hydrothermal growth of highly ordered ZnO nanorod arrays. <i>Journal of Materials Science</i> , 2012, 47, 4457-4462.	3.7	35
45	A biomimetic-structured wood-derived carbon sponge with highly compressible and biocompatible properties for human-motion detection. <i>Informa-Ån-Å-Materi-Åjly</i> , 2020, 2, 1225-1235.	17.3	34
46	Hydrothermal Synthesis of Nanooctahedra MnFe_2O_4 onto the Wood Surface with Soft Magnetism, Fire Resistance and Electromagnetic Wave Absorption. <i>Nanomaterials</i> , 2017, 7, 118.	4.1	31
47	Strong Electron Coupling of Ru and Vacancy-Rich Carbon Dots for Synergistically Enhanced Hydrogen Evolution Reaction. <i>Small</i> , 2021, 17, e2102496.	10.0	31
48	Candle soot nanoparticle-decorated wood for efficient solar vapor generation. <i>Sustainable Energy and Fuels</i> , 2020, 4, 354-361.	4.9	30
49	A Universal Aqueous Conductive Binder for Flexible Electrodes. <i>Advanced Functional Materials</i> , 2021, 31, 2102284.	14.9	30
50	MnO_2 nanoflakes/cellulose nanofibre aerogel fabricated via ultrasonication for high-performance water desalination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9580-9590.	10.3	29
51	Preparation of High Mechanical Performance Nano- Fe_3O_4 /Wood Fiber Binderless Composite Boards for Electromagnetic Absorption via a Facile and Green Method. <i>Nanomaterials</i> , 2018, 8, 52.	4.1	28
52	Bio-Inspired nacre-like nanolignocellulose-poly (vinyl alcohol)- TiO_2 composite with superior mechanical and photocatalytic properties. <i>Scientific Reports</i> , 2017, 7, 1823.	3.3	27
53	Cellulose as an Adhesive for the Synthesis of Carbon Aerogel with a 3D Hierarchical Network Structure for Capacitive Energy Storage. <i>ChemElectroChem</i> , 2019, 6, 2586-2594.	3.4	27
54	Cellulose nanofibers from bamboo and their nanocomposites with polyvinyl alcohol: Preparation and characterization. <i>Polymer Composites</i> , 2018, 39, 2611-2619.	4.6	26

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55	Preparation of mechanically strong and lightweight cellulose aerogels from cellulose-NaOH/PEG solution. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 256-259.	2.4	24
56	Synthesis of Pt-Loaded NiFe-LDH Nanosheets on Wood Veneer for Efficient Gaseous Formaldehyde Degradation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37147-37154.	8.0	24
57	Muscle-inspired capacitive tactile sensors with superior sensitivity in an ultra-wide stress range. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5913-5922.	5.5	23
58	Reversible Photocontrol of Wood-Surface Wettability Between Superhydrophilicity and Superhydrophobicity Based on a TiO ₂ Film. <i>Journal of Wood Chemistry and Technology</i> , 2015, 35, 365-373.	1.7	21
59	Ultrafine Mn ferrite by anchoring in a cellulose framework for efficient toxic ions capture and fast water/oil separation. <i>Carbohydrate Polymers</i> , 2018, 196, 117-125.	10.2	19
60	Fabrication of Superhydrophobic Mg/Al Layered Double Hydroxide (LDH) Coatings on Medium Density Fiberboards (MDFs) with Flame Retardancy. <i>Materials</i> , 2018, 11, 1113.	2.9	19
61	Wrinkled Carbon-Coated NiCo ₂ O ₄ Nanoclusters Constructed by Self-Encapsulation of Cellulose Nanonetwork for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10840-10846.	6.7	19
62	Multifunctional Ternary Hybrid Hydrogel Sensor Prepared via the Synergistic Stabilization Effect. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57725-57734.	8.0	19
63	Fabrication of a Nano-ZnO/Polyethylene/Wood-Fiber Composite with Enhanced Microwave Absorption and Photocatalytic Activity via a Facile Hot-Press Method. <i>Materials</i> , 2017, 10, 1267.	2.9	18
64	One-Step Preparation of Graphene Oxide/Cellulose Nanofibril Hybrid Aerogel for Adsorptive Removal of Four Kinds of Antibiotics. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-10.	2.7	18
65	Natural cellulose nanofiber extracted from cell wall of bamboo leaf and its derived multifunctional aerogel. <i>Polymer Composites</i> , 2018, 39, 3869-3876.	4.6	18
66	Facile Fabrication of a PDMS@Stearic Acid-Kaolin Coating on Lignocellulose Composites with Superhydrophobicity and Flame Retardancy. <i>Materials</i> , 2018, 11, 727.	2.9	16
67	Preparation and characterization of high-strength and water resistant lignocelluloses based composites bonded by branched polyethylenimine (PEI). <i>International Journal of Biological Macromolecules</i> , 2019, 141, 369-377.	7.5	16
68	Preliminary observations of hydrothermal growth of nanomaterials on wood surfaces. <i>Wood Science and Technology</i> , 2014, 48, 51-58.	3.2	15
69	Layer-by-layer self-assembly of reduced graphene oxide on bamboo timber surface with improved decay resistance. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 1223-1231.	2.9	15
70	Improved dielectricity of anisotropic wood slices and bioinspired micropatterned film electrodes for highly sensitive flexible electronic sensors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16113-16120.	5.5	15
71	Cellulose hydrogel functionalized titanate microspheres with self-cleaning for efficient purification of heavy metals in oily wastewater. <i>Cellulose</i> , 2020, 27, 7751-7763.	4.9	15
72	Bioinspired Construction of Micronano Lignocellulose into an Impact Resistance "Wooden Armor" With Bouligand Structure. <i>ACS Nano</i> , 2022, 16, 7525-7534.	14.6	15

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73	High Mechanical Property of Laminated Electromechanical Sensors by Carbonized Nanolignocellulose/Graphene Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7344-7351.	8.0	14
74	The properties of fibreboard based on nanolignocelluloses/CaCO ₃ /PMMA composite synthesized through mechano-chemical method. <i>Scientific Reports</i> , 2018, 8, 5121.	3.3	14
75	Effect of aluminosilicate on flame-retardant and mechanical properties of lignocellulose composite. <i>Cellulose</i> , 2018, 25, 4167-4177.	4.9	14
76	Green Construction of an Oil-Water Separator at Room Temperature and Its Promotion to an Adsorption Membrane. <i>Langmuir</i> , 2019, 35, 11071-11079.	3.5	14
77	Fabrication of a Robust and Flame-Retardant Aloooh-Lignocellulose Composite with a Lotus-Leaf-Like Superhydrophobic Coating. <i>Journal of Wood Chemistry and Technology</i> , 2020, 40, 44-57.	1.7	14
78	Solvothermal fabrication and growth behavior study of spherical MnFe ₂ O ₄ through a bottom-up method on wood substrate with effective microwave absorption. <i>RSC Advances</i> , 2017, 7, 24764-24770.	3.6	13
79	“Pickles Method”-Inspired Tomato Derived Hierarchical Porous Carbon for High-Performance and Safer Capacitive Output. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1054-A1063.	2.9	12
80	Fabrication of Fe ₃ O ₄ -modified lignocellulose composite for microwave absorption via a sol-gel-assisted hot-pressing process. <i>Cellulose</i> , 2019, 26, 5455-5466.	4.9	12
81	Foldable high-strength electrode enabled by nanosheet subunits for advanced sodium-ion batteries. <i>Informa Mater</i> , 2022, 4, .	17.3	12
82	Discarded Biomass Derived Ordered Hierarchical Porous WO ₃ -C as Advanced Electrochemical Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13897-13906.	6.7	11
83	A flexible hydrogel tactile sensor with low compressive modulus and dynamic piezoresistive response regulated by lignocellulose/graphene aerogels. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12895-12903.	5.5	11
84	Bulky Macroporous TiO ₂ Photocatalyst with Cellular Structure via Facile Wood-Template Method. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-6.	2.5	10
85	Mesopore-dominant nitrogen-doped carbon with a large defect degree and high conductivity via inherent hydroxyapatite-induced self-activation for lithium-ion batteries. <i>RSC Advances</i> , 2018, 8, 12204-12210.	3.6	10
86	Lignocellulose-Chitosan-Multiwalled Carbon Nanotube Composites with Improved Mechanical Strength, Dimensional Stability and Fire Retardancy. <i>Polymers</i> , 2018, 10, 341.	4.5	10
87	Fabrication of Robust Superhydrophobic Bamboo Based on ZnO Nanosheet Networks with Improved Water-, UV-, and Fire-Resistant Properties. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	2.7	9
88	A Facile Low-Temperature Hydrothermal Method to Prepare Anatase Titania/Cellulose Aerogels with Strong Photocatalytic Activities for Rhodamine B and Methyl Orange Degradations. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	2.7	8
89	Cross-Linked ZnO Nanowalls Immobilized onto Bamboo Surface and Their Use as Recyclable Photocatalysts. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	6
90	Utilizing cellulose sheets as structure promoter constructing different micro-nano titanate nanotubes networks for green water purification. <i>Carbohydrate Polymers</i> , 2017, 175, 756-764.	10.2	6

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91	New Insight on Promoted thermostability of poplar wood modified by MnFe ₂ O ₄ nanoparticles through the pyrolysis behaviors and kinetic study. Scientific Reports, 2017, 7, 1418.	3.3	6
92	Endowing graphene with superior cation/anion co-purification and visible photocatalysis performances by in situ deposition of silver compounds. Journal of Materials Chemistry A, 2017, 5, 20903-20910.	10.3	3
93	Thermally induced gel from cellulose/NaOH/PEG solution: preparation, characterization and mechanical properties. Applied Physics A: Materials Science and Processing, 2015, 119, 45-48.	2.3	2
94	Spawns Structure of Rod-Like ZnO Wrapped in Cellulose Nanofibers for Electromagnetic Wave Absorption. Journal of Nanomaterials, 2017, 2017, 1-6.	2.7	2
95	Hydrothermal deposition of CoFe ₂ O ₄ with a micro nano binary structure onto a wood surface with related magnetic property and microwave absorption. Journal of Wood Chemistry and Technology, 2019, 39, 31-42.	1.7	2
96	The preparation, properties, functionality of a eugenol-based epoxy resin for bronze ware repairment. Journal of Polymer Research, 2022, 29, 1.	2.4	2
97	Reversible photo-responsive smart wood with resistant to extreme weather. Journal of Materials Science, 2022, 57, 3337-3347.	3.7	2
98	Superhydrophobicity, Microwave Absorbing Property of NiFe ₂ O ₄ /Wood Hybrids under Harsh Conditions. Journal of Nanomaterials, 2015, 2015, 1-8.	2.7	1
99	Nanoscale UV Absorber Boosting Coloration of Apple Skin. ACS Sustainable Chemistry and Engineering, 2019, 7, 16295-16300.	6.7	1
100	Characterization and photocatalytic activity of titanate nanotube using a solvothermal route. , 2010, , .		0
101	Preliminary studies of multi-micro/nanomaterials immobilized on the bamboo timber surface. Journal of the Indian Academy of Wood Science, 2016, 13, 145-151.	0.9	0
102	Stretchable Photonic Semicrystal Interface by Pressure-Assisted Self-Assembly. Advanced Materials Interfaces, 2022, 9, .	3.7	0