Shu Hong

List of Publications by Citations

72 papers	1,942 citations	27 h-index	41 g-index
73 ext. papers	2,572 ext. citations	7.4 avg, IF	5.9 L-index

#	Paper	IF	Citations
72	Sulfonated cellulose nanofibrils obtained from wood pulp through regioselective oxidative bisulfite pre-treatment. *Cellulose*, **2013**, 20, 741-749	5.5	109
71	Cellulose Nanofibrils from Nonderivatizing Urea-Based Deep Eutectic Solvent Pretreatments. *ACS Applied Materials & Interfaces*, **2017**, 9, 2846-2855	9.5	92
70	One-pot production of chitin with high purity from lobster shells using choline chloride-malonic acid deep eutectic solvent. *Carbohydrate Polymers*, **2017**, 177, 217-223	10.3	78
69	Bisphosphonate nanocellulose in the removal of vanadium(V) from water. *Cellulose*, **2016**, 23, 689-697	5.5	64
68	Fabrication of cationic cellulosic nanofibrils through aqueous quaternization pretreatment and their use in colloid aggregation. *Carbohydrate Polymers*, **2014**, 103, 187-92	10.3	62
67	Direct sulfation of cellulose fibers using a reactive deep eutectic solvent to produce highly charged cellulose nanofibers. *Cellulose*, **2019**, 26, 2303-2316	5.5	62
66	A stretchable and compressible ion gel based on a deep eutectic solvent applied as a strain sensor and electrolyte for supercapacitors. *Journal of Materials Chemistry C*, **2020**, 8, 550-560	7.1	56
65	Recyclable deep eutectic solvent for the production of cationic nanocelluloses. *Carbohydrate Polymers*, **2018**, 199, 219-227	10.3	55
64	Versatile acid base sustainable solvent for fast extraction of various molecular weight chitin from lobster shell. *Carbohydrate Polymers*, **2018**, 201, 211-217	10.3	54
63	Anionically Stabilized Cellulose Nanofibrils through Succinylation Pretreatment in Urea-Lithium Chloride Deep Eutectic Solvent. *ChemSusChem*, **2016**, 9, 3074-3083	8.3	53
62	Anionic wood nanofibers produced from unbleached mechanical pulp by highly efficient chemical modification. *Journal of Materials Chemistry A*, **2017**, 5, 21828-21835	13	51
61	Sustainable stabilization of oil in water emulsions by cellulose nanocrystals synthesized from deep eutectic solvents. *Cellulose*, **2017**, 24, 1679-1689	5.5	50
60	Production and characterization of lignin containing nanocellulose from luffa through an acidic deep eutectic solvent treatment and systematic fractionation. *Industrial Crops and Products*, **2020**, 143, 111913	5.9	48
59	Transparent lignin-containing wood nanofiber films with UV-blocking, oxygen barrier, and anti-microbial properties. *Journal of Materials Chemistry A*, **2020**, 8, 7935-7946	13	46
58	Carboxymethyl Chitosan and Its Hydrophobically Modified Derivative as pH-Switchable Emulsifiers. *Langmuir*, **2018**, 34, 2800-2806	4	44
57	Fabrication of regenerated cellulose nanoparticles by mechanical disintegration of cellulose after dissolution and regeneration from a deep eutectic solvent. *Journal of Materials Chemistry A*, **2019**, 7, 755-763	13	42
56	Preparation of lignin-based porous carbon with hierarchical oxygen-enriched structure for high-performance supercapacitors. *Journal of Colloid and Interface Science*, **2019**, 540, 524-534	9.3	41

55	Zinc-based deep eutectic solvent-mediated hydroxylation and demethoxylation of lignin for the production of wood adhesive. *RSC Advances*, **2016**, 6, 89599-89608	3.7	40
54	Phosphonated nanocelluloses from sequential oxidative-reductive treatment-Physicochemical characteristics and thermal properties. *Carbohydrate Polymers*, **2015**, 133, 524-32	10.3	38
53	Synthesis of Alkaline-Soluble Cellulose Methyl Carbamate Using a Reactive Deep Eutectic Solvent. *ChemSusChem*, **2017**, 10, 455-460	8.3	37
52	Amino-modified cellulose nanocrystals with adjustable hydrophobicity from combined regioselective oxidation and reductive amination. *Carbohydrate Polymers*, **2016**, 136, 581-7	10.3	36
51	UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol. *Macromolecules*, **2018**, 51, 1822-1829	5.5	35
50	Preparation of flame-retardant lignin-containing wood nanofibers using a high-consistency mechano-chemical pretreatment. *Chemical Engineering Journal*, **2019**, 375, 122050	14.7	32
49	Lignin-rich sulfated wood nanofibers as high-performing adsorbents for the removal of lead and copper from water. *Journal of Hazardous Materials*, **2020**, 383, 121174	12.8	31
48	Utilizing Furfural-Based Bifuran Diester as Monomer and Comonomer for High-Performance Bioplastics: Properties of Poly(butylene furanoate), Poly(butylene bifuranoate), and Their Copolyesters. *Biomacromolecules*, **2020**, 21, 743-752	6.9	30
47	Comparison of acidic deep eutectic solvents in production of chitin nanocrystals. *Carbohydrate Polymers*, **2020**, 236, 116095	10.3	27
46	High-strength cellulose nanofibers produced via swelling pretreatment based on a choline chloride–imidazole deep eutectic solvent. *Green Chemistry*, **2020**, 22, 1763-1775	10	27
45	Porous thin film barrier layers from 2,3-dicarboxylic acid cellulose nanofibrils for membrane structures. *Carbohydrate Polymers*, **2014**, 102, 584-9	10.3	27
44	Cationization of lignocellulosic fibers with betaine in deep eutectic solvent: Facile route to charge stabilized cellulose and wood nanofibers. *Carbohydrate Polymers*, **2018**, 198, 34-40	10.3	26
43	A fast method to prepare mechanically strong and water resistant lignocellulosic nanopapers. *Carbohydrate Polymers*, **2019**, 203, 148-156	10.3	26
42	Sonication-assisted surface modification method to expedite the water removal from cellulose nanofibers for use in nanopapers and paper making. *Carbohydrate Polymers*, **2018**, 197, 92-99	10.3	26
41	Effect of plasticizers on the mechanical and thermomechanical properties of cellulose-based biocomposite films. *Industrial Crops and Products*, **2018**, 122, 513-521	5.9	25
40	Choline chloride-zinc chloride deep eutectic solvent mediated preparation of partial O-acetylation of chitin nanocrystal in one step reaction. *Carbohydrate Polymers*, **2019**, 220, 211-218	10.3	24
39	Fast microwave self-activation from chitosan hydrogel bead to hierarchical and O, N co-doped porous carbon at an air-free atmosphere for high-rate electrodes material. *Carbohydrate Polymers*, **2019**, 219, 229-239	10.3	24
38	Production of lignin-containing cellulose nanofibers using deep eutectic solvents for UV-absorbing polymer reinforcement. *Carbohydrate Polymers*, **2020**, 246, 116548	10.3	23

37	Optimization of dicarboxylic acid cellulose synthesis: reaction stoichiometry and role of hypochlorite scavengers. *Carbohydrate Polymers*, **2014**, 114, 73-77	10.3	23
36	Sustainable co-solvent induced one step extraction of low molecular weight chitin with high purity from raw lobster shell. *Carbohydrate Polymers*, **2019**, 205, 236-243	10.3	22
35	Preparation and characterization of microencapsulated LDHs with melamine-formaldehyde resin and its flame retardant application in epoxy resin. *Polymers for Advanced Technologies*, **2018**, 29, 2147-2160	3.2	22
34	Cationic wood cellulose films with high strength and bacterial anti-adhesive properties. *Cellulose*, **2014**, 21, 3573-3583	5.5	20
33	Interactions between aminated cellulose nanocrystals and quartz: Adsorption and wettability studies. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 489, 207-215	5.1	19
32	Highly Transparent Nanocomposites Based on Poly(vinyl alcohol) and Sulfated UV-Absorbing Wood Nanofibers. *Biomacromolecules*, **2019**, 20, 2413-2420	6.9	18
31	Emulsion Stabilization with Functionalized Cellulose Nanoparticles Fabricated Using Deep Eutectic Solvents. *Molecules*, **2018**, 23,	4.8	18
30	Key role of mild sulfonation of pine sawdust in the production of lignin containing microfibrillated cellulose by ultrafine wet grinding. *Industrial Crops and Products*, **2019**, 140, 111664	5.9	16
29	Fast Microwave Synthesis of Hierarchical Porous Carbons from Waste Palm Boosted by Activated Carbons for Supercapacitors. *Nanomaterials*, **2019**, 9,	5.4	16
28	Hybrid films of cellulose nanofibrils, chitosan and nanosilica-Structural, thermal, optical, and mechanical properties. *Carbohydrate Polymers*, **2019**, 218, 87-94	10.3	15
27	Surface Modification of Cured Inorganic Foams with Cationic Cellulose Nanocrystals and Their Use as Reactive Filter Media for Anionic Dye Removal. *ACS Applied Materials & Interfaces*, **2020**, 12, 27745-27757	9.5	15
26	Enhancement of the nanofibrillation of birch cellulose pretreated with natural deep eutectic solvent. *Industrial Crops and Products*, **2020**, 154, 112677	5.9	15
25	Room-temperature dissolution and chemical modification of cellulose in aqueous tetraethylammonium hydroxide□arbamide solutions. *Cellulose*, **2020**, 27, 1933-1950	5.5	15
24	High-consistency milling of oxidized cellulose for preparing microfibrillated cellulose films. *Cellulose*, **2015**, 22, 3151-3160	5.5	12
23	UZnCl2-DES assisted synthesis of phenolic resin-based carbon aerogels for capacitors. *Journal of Porous Materials*, **2020**, 27, 789-800	2.4	12
22	Rapid microwave activation of waste palm into hierarchical porous carbons for supercapacitors using biochars from different carbonization temperatures as catalysts.. *RSC Advances*, **2019**, 9, 19441-19449	3.7	12
21	Self-assembly of graphene oxide and cellulose nanocrystals into continuous filament via interfacial nanoparticle complexation. *Materials and Design*, **2020**, 193, 108791	8.1	10
20	Efficient Hydrolysis of Chitin in a Deep Eutectic Solvent Synergism for Production of Chitin Nanocrystals. *Nanomaterials*, **2020**, 10,	5.4	10

19	Conductive hybrid filaments of carbon nanotubes, chitin nanocrystals and cellulose nanofibers formed by interfacial nanoparticle complexation. *Materials and Design*, **2020**, 191, 108594	8.1	10
18	Zinc chloride/acetamide deep eutectic solvent-mediated fractionation of lignin produces high- and low-molecular-weight fillers for phenol-formaldehyde resins. *Journal of Applied Polymer Science*, **2020**, 137, 48385	2.9	10
17	Deep eutectic solvent promoted tunable synthesis of nitrogen-doped nanoporous carbons from enzymatic hydrolysis lignin for supercapacitors. *Materials Research Bulletin*, **2020**, 123, 110708	5.1	9
16	One-step method for the preparation of cationic nanocellulose in reactive eutectic media. *Green Chemistry*, **2021**, 23, 2317-2323	10	9
15	Rapid, tunable synthesis of porous carbon xerogels with expanded graphite and their application as anodes for Li-ion batteries. *Journal of Colloid and Interface Science*, **2020**, 565, 368-377	9.3	8
14	Structural Changes of Lignin after Ionic Liquid Pretreatment. *BioResources*, **2017**, 12,	1.3	8
13	Synthesis of phenol formaldehyde (PF) resin for fast manufacturing laminated veneer lumber (LVL). *Holzforschung*, **2018**, 72, 745-752	2	8
12	Highly Stable Dispersion of Carbon Nanotubes in Deep Eutectic Solvent for the Preparation of CNT-Embedded Carbon Xerogels for Supercapacitors. *ChemElectroChem*, **2019**, 6, 5750-5758	4.3	8
11	Deep eutectic solvents-assisted cost-effective synthesis of nitrogen-doped hierarchical porous carbon xerogels from phenol-formaldehyde by two-stage polymerization. *Journal of Sol-Gel Science and Technology*, **2018**, 86, 795-806	2.3	6
10	Stereoselectively water resistant hybrid nanopapers prepared by cellulose nanofibers and water-based polyurethane. *Carbohydrate Polymers*, **2018**, 199, 286-293	10.3	6
9	Novel Low-Temperature Chemical Vapor Deposition of Hydrothermal Delignified Wood for Hydrophobic Property. *Polymers*, **2020**, 12,	4.5	6
8	Photocatalytic degradation of surface-coated tourmaline-titanium dioxide for self-cleaning of formaldehyde emitted from furniture. *Journal of Hazardous Materials*, **2021**, 420, 126565	12.8	5
7	Carbamation of Starch with Amine Using Dimethyl Carbonate as Coupling Agent. *ACS Omega*, **2019**, 4, 15702-15710	3.9	4
6	Application of Furan-Based Dicarboxylic Acids in Bio-Derived Dimethacrylate Resins. *ACS Applied Polymer Materials*, **2020**, 2, 3215-3225	4.3	4
5	Aqueous Modification of Chitosan with Itaconic Acid to Produce Strong Oxygen Barrier Film. *Biomacromolecules*, **2021**, 22, 2119-2128	6.9	4
4	Mechanochemical and thermal succinylation of softwood sawdust in presence of deep eutectic solvent to produce lignin-containing wood nanofibers. *Cellulose*, **2021**, 28, 6881-6898	5.5	3
3	A Fast Dissolution Pretreatment to Produce Strong Regenerated Cellulose Nanofibers via Mechanical Disintegration. *Biomacromolecules*, **2021**, 22, 3366-3376	6.9	1
2	Energy consumption, physical properties and reinforcing ability of microfibrillated cellulose with high lignin content made from non-delignified spruce and pine sawdust. *Industrial Crops and Products*, **2021**, 170, 113738	5.9	0

1	Lignin-containing cellulose nanofibers made with microwave-aid green solvent treatment for magnetic fluid stabilization. *Carbohydrate Polymers*, **2022**, 291, 119573	10.3	0