

Lifang Liu

List of Publications by Year in descending order

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53
papers

2,486
citations

172386

29
h-index

206029

48
g-index

55
all docs

55
docs citations

55
times ranked

2475
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun flexible nanofibrous membranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20075-20102.	5.2	177
2	Gravity driven separation of emulsified oil/water mixtures utilizing in situ polymerized superhydrophobic and superoleophilic nanofibrous membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14071.	5.2	165
3	A Fluffy Dual-Network Structured Nanofiber/Net Filter Enables High-Efficiency Air Filtration. <i>Advanced Functional Materials</i> , 2019, 29, 1904108.	7.8	163
4	Fluorine-Free Waterborne Coating for Environmentally Friendly, Robustly Water-Resistant, and Highly Breathable Fibrous Textiles. <i>ACS Nano</i> , 2020, 14, 1045-1054.	7.3	131
5	Effects of preparation methods on the morphology and properties of nanocellulose (NC) extracted from corn husk. <i>Industrial Crops and Products</i> , 2017, 109, 241-247.	2.5	118
6	Electrospun Nanofibrous Membranes: An Effective Arsenal for the Purification of Emulsified Oily Wastewater. <i>Advanced Functional Materials</i> , 2020, 30, 2002192.	7.8	116
7	Scalable Fabrication of Electrospun Nanofibrous Membranes Functionalized with Citric Acid for High-Performance Protein Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11819-11829.	4.0	106
8	Environmentally Friendly and Breathable Fluorinated Polyurethane Fibrous Membranes Exhibiting Robust Waterproof Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29302-29310.	4.0	101
9	High-Performance PM _{2.5} Air Filters Using Self-Polarized Electret Nanofiber/Nets. <i>Advanced Functional Materials</i> , 2020, 30, 1909554.	7.8	97
10	Anisotropic cellulose nanofiber/chitosan aerogel with thermal management and oil absorption properties. <i>Carbohydrate Polymers</i> , 2021, 264, 118033.	5.1	93
11	Clematichinenoside inhibits VCAM-1 and ICAM-1 expression in TNF- α -treated endothelial cells via NADPH oxidase-dependent I κ B kinase/NF- κ B pathway. <i>Free Radical Biology and Medicine</i> , 2015, 78, 190-201.	1.3	67
12	Human Skin-Like, Robust Waterproof, and Highly Breathable Fibrous Membranes with Short Perfluorobutyl Chains for Eco-Friendly Protective Textiles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30887-30894.	4.0	63
13	Taro leaf-inspired and superwetable nanonet-covered nanofibrous membranes for high-efficiency oil purification. <i>Nanoscale Horizons</i> , 2019, 4, 1174-1184.	4.1	61
14	Multifunctional, Waterproof, and Breathable Nanofibrous Textiles Based on Fluorine-Free, All-Water-Based Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15911-15918.	4.0	57
15	Cellulose nanofibril (CNF) based aerogels prepared by a facile process and the investigation of thermal insulation performance. <i>Cellulose</i> , 2020, 27, 6217-6233.	2.4	56
16	Rational design of electrospun nanofibrous materials for oil/water emulsion separation. <i>Materials Chemistry Frontiers</i> , 2021, 5, 97-128.	3.2	55
17	Fabrication of cellulose nanocrystal from <i>Carex meyeriana</i> Kunth and its application in the adsorption of methylene blue. <i>Carbohydrate Polymers</i> , 2017, 175, 464-472.	5.1	52
18	<i>Setaria Viridis</i> -Inspired Electrode with Polyaniline Decorated on Porous Heteroatom-Doped Carbon Nanofibers for Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43634-43645.	4.0	47

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19	Nanofiber-Based Hydrogels: Controllable Synthesis and Multifunctional Applications. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800058.	2.0	46
20	High-performance filters from biomimetic wet-adhesive nanoarchitected networks. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18955-18962.	5.2	46
21	Highly flexible, freestanding supercapacitor electrodes based on hollow hierarchical porous carbon nanofibers bridged by carbon nanotubes. <i>Chemical Engineering Journal</i> , 2022, 434, 134662.	6.6	44
22	Clematichinenoside protects blood brain barrier against ischemic stroke superimposed on systemic inflammatory challenges through up-regulating A20. <i>Brain, Behavior, and Immunity</i> , 2016, 51, 56-69.	2.0	42
23	Environmentally benign modification of breathable nanofibrous membranes exhibiting superior waterproof and photocatalytic self-cleaning properties. <i>Nanoscale Horizons</i> , 2019, 4, 867-873.	4.1	41
24	High-efficiency and super-breathable air filters based on biomimetic ultrathin nanofiber networks. <i>Composites Communications</i> , 2020, 22, 100493.	3.3	40
25	Multiscale nanocelluloses hybrid aerogels for thermal insulation: The study on mechanical and thermal properties. <i>Carbohydrate Polymers</i> , 2020, 247, 116701.	5.1	40
26	Assembly of silica aerogels within silica nanofibers: towards a super-insulating flexible hybrid aerogel membrane. <i>RSC Advances</i> , 2015, 5, 91813-91820.	1.7	38
27	Tailoring waterproof and breathable properties of environmentally friendly electrospun fibrous membranes by optimizing porous structure and surface wettability. <i>Composites Communications</i> , 2019, 15, 40-45.	3.3	38
28	Modification of natural bamboo fibers for textile applications. <i>Fibers and Polymers</i> , 2011, 12, 95-103.	1.1	35
29	Multilayer structured CNF/rGO aerogels and rGO film composites for efficient electromagnetic interference shielding. <i>Carbohydrate Polymers</i> , 2022, 286, 119306.	5.1	34
30	Enzymatic treatment of mechanochemical modified natural bamboo fibers. <i>Fibers and Polymers</i> , 2012, 13, 600-605.	1.1	33
31	Electroconductive nanofibrous membranes with nanosheet-based microsphere-threaded heterostructures enabling oily wastewater remediation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15310-15320.	5.2	30
32	Lightweight Cellulose Nanofibril/Reduced Graphene Oxide Aerogels with Unidirectional Pores for Efficient Electromagnetic Interference Shielding. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101437.	1.9	25
33	Characteristics of cotton fabric modified with chitosan (CS)/cellulose nanocrystal (CNC) nanocomposites. <i>Materials Letters</i> , 2018, 211, 300-303.	1.3	21
34	Phosphorylated cellulose nanofibrils: structure-morphology-rheology relationships. <i>Cellulose</i> , 2021, 28, 4105-4117.	2.4	19
35	Efficient recovery of the dyed cotton-polyester fabric: cellulose nanocrystal extraction and its application in composite films. <i>Cellulose</i> , 2021, 28, 3235-3248.	2.4	18
36	Superior stable, hydrophobic and multifunctional nanocellulose hybrid aerogel via rapid UV induced in-situ polymerization. <i>Carbohydrate Polymers</i> , 2022, 288, 119370.	5.1	18

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37	Structure and properties of high quality natural cellulose nano fibrils from a novel material Ficus natalensis barkcloth. Journal of Industrial Textiles, 2021, 51, 664-680.	1.1	17
38	Recent Progress in the Application of Cellulose in Electromagnetic Interference Shielding Materials. Macromolecular Materials and Engineering, 2022, 307, .	1.7	16
39	Crosslinking polydopamine/cellulose nanofibril composite aerogels by metal coordination bonds for significantly improved thermal stability, flame resistance, and thermal insulation properties. Cellulose, 2021, 28, 10987-10997.	2.4	15
40	Structure and rheological studies of phosphorylated cellulose nanofibrils suspensions. Industrial Crops and Products, 2022, 178, 114581.	2.5	14
41	Nanocellulose-based aerogels with devisable structure and tunable properties via ice-template induced self-assembly. Industrial Crops and Products, 2022, 179, 114701.	2.5	14
42	Evaluation of the availability of easy cationic dyeable copolyester fibers as electrostatic flocking piles. Journal of Applied Polymer Science, 2011, 120, 195-201.	1.3	13
43	Charged membranes based on spider silk-inspired nanofibers for comprehensive and continuous purification of wastewater. Nanotechnology, 2021, 32, 495704.	1.3	13
44	Recyclable, superhydrophobic and effective Ag/TiO ₂ @PDMS coated cotton fabric with visible-light photocatalyst for efficient water purification. Cellulose, 2022, 29, 3529-3544.	2.4	13
45	An approach for testing and predicting longitudinal tensile modulus of 3D braided composites. Journal of Reinforced Plastics and Composites, 2014, 33, 775-784.	1.6	12
46	Functionalization of cotton fabric with ZnO nanoparticles and cellulose nanofibrils for ultraviolet protection. Textile Reseach Journal, 2021, 91, 2303-2314.	1.1	7
47	Effects of Phosphorylation Duration on the Jute Extracted Cellulose Nanofibrils Using Ultra-sonication. ChemistrySelect, 2020, 5, 12750-12758.	0.7	6
48	Tailoring electrospun nanofibrous materials for oil/water emulsion separation. Journal of the Textile Institute, 2022, 113, 2285-2298.	1.0	4
49	The influence of high temperature treatment on morphology and performance of superfine glass fiber felts. Textile Reseach Journal, 2020, 90, 2292-2303.	1.1	3
50	Comparison of the physical properties of heat-treated and hydrophobic modified glass fiber felt. Journal of Industrial Textiles, 0, , 152808372098847.	1.1	2
51	Extraction of cellulose nanofibrils from Ficus natalensis barkcloth and utilization in preparation of antimicrobial bio-nanocomposite films for possible food packaging applications. Journal of Industrial Textiles, 2022, 51, 3980S-3997S.	1.1	1
52	An Eco-friendly Route to Prepare Cellulose Based Multifunctional Lyocell Fabrics Using Zinc Oxide and Cellulose Nanofibrils Network. Fibers and Polymers, 2022, 23, 1275-1283.	1.1	1
53	Dual bio-inspired strong and humidity-responsive composite cellulose nanofibril papers. Journal of Materials Science, 2022, 57, 8727-8738.	1.7	1