

Gang Sun

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

4,813
citations

39
h-index

65
g-index

146
ext. papers

5,544
ext. citations

7.7
avg, IF

6.13
L-index

#	Paper	IF	Citations
140	Superelastic and superhydrophobic nanofiber-assembled cellular aerogels for effective separation of oil/water emulsions. <i>ACS Nano</i> , 2015 , 9, 3791-9	16.7	522
139	Electro-spinning/netting: A strategy for the fabrication of three-dimensional polymer nano-fiber/nets. <i>Progress in Materials Science</i> , 2013 , 58, 1173-1243	42.2	375
138	Tunable fabrication of three-dimensional polyamide-66 nano-fiber/nets for high efficiency fine particulate filtration. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1445-1452		153
137	Daylight-driven rechargeable antibacterial and antiviral nanofibrous membranes for bioprotective applications. <i>Science Advances</i> , 2018 , 4, eaar5931	14.3	151
136	Novel regenerable N-halamine polymeric biocides. I. Synthesis, characterization, and antibacterial activity of hydantoin-containing polymers. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 2460-2467	2.9	131
135	A High-Throughput, Controllable, and Environmentally Benign Fabrication Process of Thermoplastic Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 407-414	3.9	126
134	Electreted polyetherimide-silica fibrous membranes for enhanced filtration of fine particles. <i>Journal of Colloid and Interface Science</i> , 2015 , 439, 12-20	9.3	124
133	Durable and Regenerable Antibacterial Finishing of Fabrics with a New Hydantoin Derivative. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 1016-1021	3.9	120
132	Supercapacitive Iontronic Nanofabric Sensing. <i>Advanced Materials</i> , 2017 , 29, 1700253	24	113
131	Synthesis of mesoporous magnetic Fe ₃ O ₄ @carbon nanofibers utilizing in situ polymerized polybenzoxazine for water purification. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4619		112
130	Durable and regenerable antimicrobial textiles: Synthesis and applications of 3-methylol-2,2,5,5-tetramethyl-imidazolidin-4-one (MTMIO). <i>Journal of Applied Polymer Science</i> , 2003 , 89, 2418-2425	2.9	103
129	High sensitivity ammonia sensor using a hierarchical polyaniline/poly(ethylene-co-glycidyl methacrylate) nanofibrous composite membrane. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6473-75	9.5	99
128	A new cyclic N-halamine biocidal polymer. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 168-170	3.9	91
127	Continuously Producing Ultrasensitive Wearable Strain Sensor Assembled with Three-Dimensional Interpenetrating Ag Nanowires/Polyolefin Elastomer Nanofibrous Composite Yarn. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42058-42066	9.5	73
126	Highly flexible, core-shell heterostructured, and visible-light-driven titania-based nanofibrous membranes for antibiotic removal and E. coli inactivation. <i>Chemical Engineering Journal</i> , 2020 , 379, 122269	14.7	71
125	Soft Zr-doped TiO Nanofibrous Membranes with Enhanced Photocatalytic Activity for Water Purification. <i>Scientific Reports</i> , 2017 , 7, 1636	4.9	70
124	Amphiphobic fluorinated polyurethane composite microfibrillar membranes with robust waterproof and breathable performances. <i>RSC Advances</i> , 2013 , 3, 2248-2255	3.7	68

123	Chemistry of Durable and Regenerable Biocidal Textiles. <i>Journal of Chemical Education</i> , 2005 , 82, 60	2.4	68
122	Antibacterial Surgical Silk Sutures Using a High-Performance Slow-Release Carrier Coating System. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22394-403	9.5	67
121	Durable and regenerable antimicrobial textiles: Improving efficacy and durability of biocidal functions. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 2588-2593	2.9	62
120	Antimicrobial functions on cellulose materials introduced by anthraquinone vat dyes. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10830-5	9.5	60
119	New Refreshable N-Halamine Polymeric Biocides: N-Chlorination of Acyclic Amide Grafted Cellulose. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 613-618	3.9	59
118	Label-free ultrasensitive colorimetric detection of copper(II) ions utilizing polyaniline/polyamide-6 nano-fiber/net sensor strips. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13345		56
117	Flexible and Washable Poly(Ionic Liquid) Nanofibrous Membrane with Moisture Proof Pressure Sensing for Real-Life Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27200-27209	9.5	55
116	Formation and morphology of cellulose acetate butyrate (CAB)/polyolefin and CAB/polyester in situ microfibrillar and lamellar hybrid blends. <i>European Polymer Journal</i> , 2007 , 43, 3587-3596	5.2	55
115	Biocidal and Rechargeable -Halamine Nanofibrous Membranes for Highly Efficient Water Disinfection. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 854-862	5.5	54
114	Production of Reactive Oxygen Species by Photoactive Anthraquinone Compounds and Their Applications in Wastewater Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 5326-5333	3.9	51
113	Colorimetric strips for visual lead ion recognition utilizing polydiacetylene embedded nanofibers. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18304-18312	13	46
112	Rechargeable Antibacterial N-Halamine Films with Antifouling Function for Food Packaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17814-17822	9.5	45
111	Ultrasensitive label-free electrochemical immunosensor based on PVA-co-PE nanofibrous membrane for the detection of chloramphenicol residues in milk. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 838-844	11.8	45
110	Multifunctional finishing of cotton fabrics with 3,3',4,4'-benzophenone tetracarboxylic dianhydride: reaction mechanism. <i>Carbohydrate Polymers</i> , 2013 , 95, 768-72	10.3	45
109	Durable and rechargeable biocidal polypropylene polymers and fibers prepared by using reactive extrusion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 89, 93-101	3.5	44
108	Layer-by-Layer Structured Nanofiber Membranes with Photoinduced Self-Cleaning Functions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6825-6832	3.8	42
107	Photoactive antibacterial cotton fabrics treated by 3,3',4,4'-benzophenonetetracarboxylic dianhydride. <i>Carbohydrate Polymers</i> , 2011 , 84, 1027-1032	10.3	42
106	Catalytic actions of alkaline salts in reactions between 1,2,3,4-butanetetracarboxylic acid and cellulose: II. Esterification. <i>Carbohydrate Polymers</i> , 2015 , 132, 228-36	10.3	41

105	Cibacron Blue F3GA functionalized poly(vinyl alcohol-co-ethylene) (PVA-co-PE) nanofibrous membranes as high efficient affinity adsorption materials. <i>Journal of Membrane Science</i> , 2011 , 385-386, 269-276	9.6	40
104	Functional modification of poly(ethylene terephthalate) with an allyl monomer: Chemistry and structure characterization. <i>Polymer</i> , 2008 , 49, 5225-5232	3.9	40
103	Novel fluorinated polyurethane decorated electrospun silica nanofibrous membranes exhibiting robust waterproof and breathable performances. <i>RSC Advances</i> , 2013 , 3, 7562	3.7	39
102	Bioinspired Smart Moisture Actuators Based on Nanoscale Cellulose Materials and Porous, Hydrophilic EVOH Nanofibrous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1440-1448	9.5	39
101	A Study on Melt Grafting of N-Halamine Moieties onto Polyethylene and Their Antibacterial Activities. <i>Macromolecules</i> , 2009 , 42, 1948-1954	5.5	36
100	The synthesis of novel cationic anthraquinone dyes with high potent antimicrobial activity. <i>Dyes and Pigments</i> , 2008 , 77, 380-386	4.6	36
99	Constitution of a visual detection system for lead(II) on polydiacetylene-glycine embedded nanofibrous membranes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9722-9730	13	35
98	Photo-induced self-cleaning functions on 2-anthraquinone carboxylic acid treated cotton fabrics. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15383		34
97	Chemical and biological decontamination functions of nanofibrous membranes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8532		33
96	Polydopamine-induced growth of mineralized FeOOH nanorods for construction of silk fabric with excellent superhydrophobicity, flame retardancy and UV resistance. <i>Chemical Engineering Journal</i> , 2020 , 382, 122988	14.7	33
95	Ultrasensitive Wearable Pressure Sensors Assembled by Surface-Patterned Polyolefin Elastomer Nanofiber Membrane Interpenetrated with Silver Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42706-42714	9.5	33
94	Mechanically Robust and Transparent N-Halamine Grafted PVA-co-PE Films with Renewable Antimicrobial Activity. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600304	5.5	29
93	Photo-induced antimicrobial and decontaminating agents: recent progresses in polymer and textile applications. <i>Textile Research Journal</i> , 2013 , 83, 532-542	1.7	29
92	Daylight-Induced Antibacterial and Antiviral Cotton Cloth for Offensive Personal Protection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49442-49451	9.5	29
91	Photoactive antimicrobial agents/polyurethane finished leather. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 1138-1144	2.9	28
90	Durable and Regenerable Antimicrobial Textiles: Chlorine Transfer among Halamine Structures. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 852-856	3.9	28
89	Ultrafine Silk-Derived Nanofibrous Membranes Exhibiting Effective Lysozyme Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8777-8784	8.3	27
88	Daylight-Induced Antibacterial and Antiviral Nanofibrous Membranes Containing Vitamin K Derivatives for Personal Protective Equipment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49416-49430	9.5	26

87	Reusable anionic sulfonate functionalized nanofibrous membranes for cellulase enzyme adsorption and separation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 588-595	6	26
86	Solid-phase pink-to-purple chromatic strips utilizing gold probes and nanofibrous membranes combined system for lead (II) assaying. <i>Sensors and Actuators B: Chemical</i> , 2014 , 204, 673-681	8.5	25
85	Multifunctional finishing of cotton with 3,3',4,4'-benzophenone tetracarboxylic acid: functional performance. <i>Carbohydrate Polymers</i> , 2013 , 96, 435-9	10.3	25
84	Strategy of Constructing Light-Weight and Highly Compressible Graphene-Based Aerogels with an Ordered Unique Configuration for Wearable Piezoresistive Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19350-19362	9.5	24
83	An Innovative Nanobody-Based Electrochemical Immunosensor Using Decorated Nylon Nanofibers for Point-of-Care Monitoring of Human Exposure to Pyrethroid Insecticides. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6159-6168	9.5	23
82	Visible-light-driven, hierarchically heterostructured, and flexible silver/bismuth oxyiodide/titania nanofibrous membranes for highly efficient water disinfection. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 636-646	9.3	23
81	An antimicrobial cationic reactive dye: Synthesis and applications on cellulosic fibers. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1917-1923	2.9	23
80	Light-induced antibacterial and UV-protective properties of polyamide 56 biomaterial modified with anthraquinone and benzophenone derivatives. <i>Materials and Design</i> , 2017 , 130, 215-222	8.1	22
79	Construction of ternary Ag@ZnO/TiO ₂ fibrous membranes with hierarchical nanostructures and mechanical flexibility for water purification. <i>Ceramics International</i> , 2020 , 46, 468-475	5.1	22
78	Biocidal acyclic halamine polymers: Conversion of acrylamide-grafted-cotton to acyclic halamine. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 3480-3486	2.9	21
77	Hansen solubility parameters as a useful tool in searching for solvents for soy proteins. <i>RSC Advances</i> , 2015 , 5, 1890-1892	3.7	19
76	Design and fabrication of a highly sensitive and naked-eye distinguishable colorimetric biosensor for chloramphenicol detection by using ELISA on nanofibrous membranes. <i>Talanta</i> , 2020 , 217, 121054	6.2	18
75	Photoactivities of Vitamin K Derivatives and Potential Applications as Daylight-Activated Antimicrobial Agents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18493-18504	8.3	18
74	Generation of hydroxyl radicals and effective whitening of cotton fabrics by HO under UVB irradiation. <i>Carbohydrate Polymers</i> , 2017 , 160, 153-162	10.3	17
73	Preparation and Characterization of Antibacterial Polypropylene Meshes with Covalently Incorporated β -Cyclodextrins and Captured Antimicrobial Agent for Hernia Repair. <i>Polymers</i> , 2018 , 10,	4.5	17
72	Light-induced surface graft polymerizations initiated by an anthraquinone dye on cotton fibers. <i>Carbohydrate Polymers</i> , 2014 , 112, 158-64	10.3	16
71	Biomimetic biodegradable Ag@Au nanoparticle-embedded ureteral stent with a constantly renewable contact-killing antimicrobial surface and antibiofilm and extraction-free properties. <i>Acta Biomaterialia</i> , 2020 , 114, 117-132	10.8	16
70	Antibiofilm Effect of Poly(Vinyl Alcohol-Ethylene) Halamine Film against <i>Listeria innocua</i> and <i>Escherichia coli</i> O157:H7. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	15

69	Control of surface radical graft polymerization on polyester fibers by using Hansen solubility parameters as a measurement of the affinity of chemicals to materials. <i>RSC Advances</i> , 2017 , 7, 13299-13303	3.7	14
68	Copper complex formed with pyridine rings grafted on cellulose nanofibrous membranes for highly efficient lysozyme adsorption. <i>Separation and Purification Technology</i> , 2020 , 250, 117086	8.3	14
67	Synthesis and applications of vegetable oil-based fluorocarbon water repellent agents on cotton fabrics. <i>Carbohydrate Polymers</i> , 2012 , 89, 193-8	10.3	14
66	A study of radical graft copolymerization on polypropylene during extrusion using two peroxide initiators. <i>Polymer International</i> , 2010 , 59, 155-161	3.3	14
65	A signal-on electrochemical aptasensor based on silanized cellulose nanofibers for rapid point-of-use detection of ochratoxin A. <i>Mikrochimica Acta</i> , 2020 , 187, 535	5.8	14
64	Layer-by-layer structured gelatin nanofiber membranes with photoinduced antibacterial functions. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 970-975	2.9	12
63	Rechargeable Photoactive Silk-Derived Nanofibrous Membranes for Degradation of Reactive Red 195. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 986-993	8.3	12
62	Conductive Polymer Nanotubes for Electrochromic Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3154-3160	5.6	11
61	Conformational Changes of Soy Proteins under High-Intensity Ultrasound and High-Speed Shearing Treatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8117-8125	8.3	11
60	Light-driven antimicrobial activities of vitamin K3 against <i>Listeria monocytogenes</i> , <i>Escherichia coli</i> O157:H7 and <i>Salmonella Enteritidis</i> . <i>Food Control</i> , 2020 , 114, 107235	6.2	11
59	Sensitivity-Tunable Colorimetric Detection of Chloropicrin Vapor on Nylon-6 Nanofibrous Membrane Based on a Detoxification Reaction with Biological Thiols. <i>ACS Sensors</i> , 2018 , 3, 858-866	9.2	11
58	Highly sensitive colorimetric paper sensor for methyl isothiocyanate (MITC): Using its toxicological reaction. <i>Sensors and Actuators B: Chemical</i> , 2018 , 261, 178-187	8.5	11
57	Controlled Levofloxacin Release and Antibacterial Properties of β -Cyclodextrins-Grafted Polypropylene Mesh Devices for Hernia Repair. <i>Polymers</i> , 2018 , 10,	4.5	11
56	Synergistic adsorption-photocatalytic degradation of tetracycline by microcrystalline cellulose composite aerogel doped with montmorillonite hosted methylene blue. <i>Chemical Engineering Journal</i> , 2022 , 430, 133077	14.7	11
55	Hierarchical Nucleophilic Nanofibrous Membranes for Fast, Durable, and Bare-Eye Visible Detoxification of Carcinogenic Alkylating Toxicants. <i>Advanced Functional Materials</i> , 2019 , 29, 1905990	15.6	10
54	Design and Synthesis of Core-Shell Carbon Polymer Dots with Highly Stable Fluorescence in Polymeric Materials. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6503-6512	5.6	10
53	Colorimetric Detection of Carcinogenic Alkylating Fumigants on a Nylon 6 Nanofibrous Membrane. Part II: Self-Catalysis of 2-Diethylaminoethyl-Modified Sensor Matrix for Improvement of Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13632-13641	9.5	10
52	Chlorine Rechargeable Biocidal -Halamine Nanofibrous Membranes Incorporated with Bifunctional Zwitterionic Polymers for Efficient Water Disinfection Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51057-51068	9.5	10

51	Integration of photo-induced biocidal and hydrophilic antifouling functions on nanofibrous membranes with demonstrated reduction of biofilm formation. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 779-787	9.3	10
50	An environmentally friendly bleaching process for cotton fabrics: mechanism and application of UV/H ₂ O ₂ system. <i>Cellulose</i> , 2020 , 27, 1071-1083	5.5	10
49	The application of ultraviolet-induced photo-crosslinking in edible film preparation and its implication in food safety. <i>LWT - Food Science and Technology</i> , 2020 , 131, 109791	5.4	10
48	Colorimetric Detection of Carcinogenic Alkylating Fumigants on Nylon-6 Nanofibrous Membrane. Part I: Investigation of 4-(p-Nitrobenzyl)pyridine as a "New" Sensing Agent with Ultrahigh Sensitivity. <i>Analytical Chemistry</i> , 2018 , 90, 14593-14601	7.8	10
47	Functionalized nanofibrous nylon 6 membranes for efficient reusable and selective separation of laccase enzyme. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 194, 111190	6	9
46	Fabrication and evaluation of nanofibrous membranes with photo-induced chemical and biological decontamination functions. <i>RSC Advances</i> , 2014 , 4, 50858-50865	3.7	9
45	Scalable fabrication of sulfated silk fibroin nanofibrous membranes for efficient lipase adsorption and recovery. <i>International Journal of Biological Macromolecules</i> , 2018 , 111, 738-745	7.9	8
44	Fabricating durable, fluoride-free, water repellency cotton fabrics with CPDMS. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46396	2.9	7
43	Disinfectant Performance of a Chlorine Regenerable Antibacterial Microfiber Fabric as a Reusable Wiper. <i>Materials</i> , 2019 , 12,	3.5	7
42	Surface modification of poly(ethylene terephthalate) fibers via controlled radical graft polymerization. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45990	2.9	7
41	Antimicrobial finish of cotton fabrics treated by sophorolipids combined with 1,2,3,4-butanetetracarboxylic acid. <i>Cellulose</i> , 2020 , 27, 2859-2872	5.5	6
40	-Halamine Polypropylene Nonwoven Fabrics with Rechargeable Antibacterial and Antiviral Functions for Medical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2329-2336	5.5	6
39	Bio-inspired ultrasensitive colorimetric detection of methyl isothiocyanate on nylon-6 nanofibrous membrane: A comparison of biological thiol reactivities. <i>Journal of Hazardous Materials</i> , 2019 , 362, 375-382	12.8	6
38	Controlled surface functionalization of poly(ethylene terephthalate) fibers with varied vinyl monomers via radical graft copolymerization. <i>Materials Today Communications</i> , 2018 , 17, 124-132	2.5	6
37	Mechanism of H ₂ O ₂ /bleach activators and related factors. <i>Cellulose</i> , 2019 , 26, 2743-2757	5.5	5
36	Characterization of Conformational Structures of Plant Proteins in Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 188-197	3.9	5
35	Designed Ionic Microchannels for Ultrasensitive Detection and Efficient Removal of Formaldehyde in an Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1806-1816	9.5	5
34	Wearable super-adsorptive fibrous equipment in situ grafted with porous organic polymers for carcinogenic fumigant defense and detoxification. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24128-24136	13	5

33	Modification of cotton fabrics with 2-diethylaminoethyl chloride for salt-free dyeing with anionic dyes. <i>Cellulose</i> , 2021 , 28, 6699	5.5	5
32	Antimicrobial N-Halamine incorporated Poly(Vinyl alcohol-co-ethylene) films for reducing cross-contamination of fresh produce. <i>Food Control</i> , 2021 , 124, 107880	6.2	4
31	Photoactive Water-Soluble Vitamin K: A Novel Amphiphilic Photoinduced Antibacterial Agent. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8280-8294	8.3	4
30	Durable and chlorine rechargeable biocidal composite material for improved food safety. <i>Cellulose</i> , 2021 , 28, 503-515	5.5	4
29	Unique "posture" of rose Bengal for fabricating personal protective equipment with enhanced daylight-induced biocidal efficiency. <i>Materials Advances</i> , 2021 , 2, 3569-3578	3.3	4
28	AQC functionalized CNCs/PVA-co-PE composite nanofibrous membrane with flower-like microstructures for photo-induced multi-functional protective clothing. <i>Cellulose</i> , 2018 , 25, 4819-4830	5.5	4
27	Robust, rapid, and ultrasensitive colorimetric sensors through dye chemisorption on poly-cationic nanodots. <i>Talanta</i> , 2020 , 219, 121149	6.2	3
26	Photodynamic control of fungicide-resistant <i>Penicillium digitatum</i> by vitamin K3 water-soluble analogue. <i>Food Control</i> , 2022 , 135, 108807	6.2	3
25	Incorporation of Antimicrobial Bio-Based Carriers onto Poly(vinyl alcohol-ethylene) Surface for Enhanced Antimicrobial Activity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36275-36285	9.5	3
24	Fabrication of polydopamine-based NIR-light responsive imprinted nanofibrous membrane for effective lysozyme extraction and controlled release from chicken egg white. <i>Food Chemistry</i> , 2021 , 357, 129613	8.5	3
23	Ultra-Sensitive Piezo-Resistive Sensors Constructed with Reduced Graphene Oxide/Polyolefin Elastomer (RGO/POE) Nanofiber Aerogels. <i>Polymers</i> , 2019 , 11,	4.5	2
22	Cationic microcrystalline cellulose - Montmorillonite composite aerogel for preconcentration of inorganic anions from dairy wastewater.. <i>Talanta</i> , 2022 , 242, 123281	6.2	2
21	Sustainable and Reusable Gelatin-Based Hydrogel Jelly Ice Cubes as Food Coolant. II: Ideal Freeze-Thaw Conditions. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	2
20	Fabrication of robust functional poly-cationic nanodots on surfaces of nucleophilic nanofibrous membrane. <i>Applied Surface Science</i> , 2020 , 528, 146587	6.7	2
19	Developing an Injectable Nanofibrous Extracellular Matrix Hydrogel With an Integrin $\alpha 5 \beta 1$ Ligand to Improve Endothelial Cell Survival, Engraftment and Vascularization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 890	5.8	2
18	Chlorine Rechargeable Halamine Biocidal Alginate/Polyacrylamide Hydrogel Beads for Improved Sanitization of Fresh Produce. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 13323-13330	5.7	2
17	Daylight-activated fumigant detoxifying nanofibrous membrane based on thiol-ene click chemistry. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124723	12.8	2
16	Sustainable and Reusable Gelatin-Based Hydrogel Jelly Ice Cubes as Food Coolant. I: Feasibilities and Challenges. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	2

15	Rapid removal of nitrate from liquid dairy manure by cationic poly (vinyl alcohol-co-ethylene) nanofiber membrane. <i>Journal of Environmental Management</i> , 2021 , 282, 111574	7.9	2
14	A Novel -Halamine Biocidal Nanofibrous Membrane for Chlorine Rechargeable Rapid Water Disinfection Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41056-41065	9.5	2
13	Effective tetracycline removal from liquid streams of dairy manure via hierarchical poly (vinyl alcohol-co-ethylene)/polyaniline metal complex nanofibrous membranes. <i>Journal of Colloid and Interface Science</i> , 2021 , 597, 9-20	9.3	2
12	Antibacterial Polylactic--glycolic Acid Braided Threads Using Plasma and Coating Modifications for Acupoint Catgut Embedding Therapy Applications.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1902-1912	4.1	1
11	Highly sensitive, selective, and reusable nanofibrous membrane-based carbon polymer dots sensors for detection of Cr(VI) in water. <i>Applied Surface Science</i> , 2022 , 582, 152392	6.7	1
10	What We Are Learning from COVID-19 for Respiratory Protection: Contemporary and Emerging Issues. <i>Polymers</i> , 2021 , 13,	4.5	1
9	Daylight-Active Cellulose Nanocrystals Containing Anthraquinone Structures. <i>Materials</i> , 2020 , 13,	3.5	1
8	Research progress in chemical and biological protective materials with integrated conventional decontamination-and-sensing functions. <i>Materials Science and Engineering Reports</i> , 2021 , 145, 100626	30.9	1
7	Diffusion of Protein Molecules through Microporous Nanofibrous Polyacrylonitrile Membranes. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1618-1627	4.3	1
6	Sample-to-Answer Robotic ELISA. <i>Analytical Chemistry</i> , 2021 , 93, 11424-11432	7.8	1
5	Improved Processability of Soy Proteins Due to Conformational Controls under a Combination of Chemical and Mechanical Treatments. <i>ACS Agricultural Science and Technology</i> , 2021 , 1, 11-20		1
4	Photoactivities of Two Vitamin B Derivatives and Their Applications in the Perpetration of Photoinduced Antibacterial Nanofibrous Membranes.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 8584-8596	4.1	0
3	Colorimetric sensors: taking merits of nanofibrous membrane for volatile toxicants detection with ultra-high sensitivity 2020 , 213-241		
2	Novel Robust, Reusable, Microbial-Resistant, and Compostable Protein-Based Cooling Media. <i>Advanced Functional Materials</i> , 2020 , 30, 201347	15.6	
1	Stabilization of flavin mononucleotide by capturing its "tail" with porous organic polymers for long-term photocatalytic degradation of micropollutants.. <i>Journal of Hazardous Materials</i> , 2022 , 435, 128982	12.8	