

Chaobo Huang

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119
papers

6,547
citations

44
h-index

79
g-index

125
ext. papers

8,618
ext. citations

9.1
avg, IF

6.65
L-index

#	Paper	IF	Citations
119	Stimuli-responsive bio-based polymeric systems and their applications. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 709-729	7.3	387
118	Electrospun Nanofibers Membranes for Effective Air Filtration. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600353	3.9	313
117	Nanocellulose-Mediated Electroconductive Self-Healing Hydrogels with High Strength, Plasticity, Viscoelasticity, Stretchability, and Biocompatibility toward Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27987-28002	9.5	296
116	Ecofriendly Electrospun Membranes Loaded with Visible-Light-Responding Nanoparticles for Multifunctional Usages: Highly Efficient Air Filtration, Dye Scavenging, and Bactericidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12880-12889	9.5	251
115	Electrospun polymer nanofibres with small diameters. <i>Nanotechnology</i> , 2006 , 17, 1558-63	3.4	212
114	A self-healable and highly flexible supercapacitor integrated by dynamically cross-linked electro-conductive hydrogels based on nanocellulose-templated carbon nanotubes embedded in a viscoelastic polymer network. <i>Carbon</i> , 2019 , 149, 1-18	10.4	188
113	Green Electrospun Nanofibers and Their Application in Air Filtration. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800336	3.9	181
112	Stimuli-responsive electrospun fibers and their applications. <i>Chemical Society Reviews</i> , 2011 , 40, 2417-3458.5	8.5	164
111	Nature-inspired chemistry toward hierarchical superhydrophobic, antibacterial and biocompatible nanofibrous membranes for effective UV-shielding, self-cleaning and oil-water separation. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121476	12.8	159
110	Biomass derived carbon as binder-free electrode materials for supercapacitors. <i>Carbon</i> , 2019 , 155, 706-726.4	16.4	149
109	Fabrication of highly durable and robust superhydrophobic-superoleophilic nanofibrous membranes based on a fluorine-free system for efficient oil/water separation. <i>Journal of Membrane Science</i> , 2019 , 570-571, 303-313	9.6	146
108	Hydrothermal synthesized UV-resistance and transparent coating composited superoleophilic electrospun membrane for high efficiency oily wastewater treatment. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121152	12.8	140
107	Electrospun nanofiber membranes for wastewater treatment applications. <i>Separation and Purification Technology</i> , 2020 , 250, 117116	8.3	139
106	Electrospun fibers for oil/water separation. <i>RSC Advances</i> , 2016 , 6, 12868-12884	3.7	137
105	Flexible Amoxicillin-Grafted Bacterial Cellulose Sponges for Wound Dressing: In Vitro and in Vivo Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5862-5870	9.5	134
104	Electrospun cellulose acetate phthalate fibers for semen induced anti-HIV vaginal drug delivery. <i>Biomaterials</i> , 2012 , 33, 962-9	15.6	131
103	Nanocellulose-templated assembly of polyaniline in natural rubber-based hybrid elastomers toward flexible electronic conductors. <i>Industrial Crops and Products</i> , 2019 , 128, 94-107	5.9	124

102	Dual pH- and ammonia-vapor-responsive electrospun nanofibrous membranes for oil-water separations. <i>Journal of Membrane Science</i> , 2017 , 537, 128-139	9.6	123
101	Biomimetic Durable Multifunctional Self-Cleaning Nanofibrous Membrane with Outstanding Oil/Water Separation, Photodegradation of Organic Contaminants, and Antibacterial Performances. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34999-35010	9.5	116
100	Durable superhydrophobic and superoleophilic electrospun nanofibrous membrane for oil-water emulsion separation. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 12-23	9.3	113
99	Polyimide/cellulose acetate core/shell electrospun fibrous membranes for oil-water separation. <i>Separation and Purification Technology</i> , 2017 , 177, 71-85	8.3	110
98	Microstructures and mechanical properties of aligned electrospun carbon nanofibers from binary composites of polyacrylonitrile and polyamic acid. <i>Journal of Materials Science</i> , 2018 , 53, 15096-15106	4.3	107
97	Bio-based and photocrosslinked electrospun antibacterial nanofibrous membranes for air filtration. <i>Carbohydrate Polymers</i> , 2019 , 205, 55-62	10.3	107
96	Effects of nanocellulose on the structure and properties of poly(vinyl alcohol)-borax hybrid foams. <i>Cellulose</i> , 2017 , 24, 4433-4448	5.5	101
95	Green electrospun and crosslinked poly(vinyl alcohol)/poly(acrylic acid) composite membranes for antibacterial effective air filtration. <i>Journal of Colloid and Interface Science</i> , 2018 , 511, 411-423	9.3	99
94	Electrospun Core-Shell Nanofibrous Membranes with Nanocellulose-Stabilized Carbon Nanotubes for Use as High-Performance Flexible Supercapacitor Electrodes with Enhanced Water Resistance, Thermal Stability, and Mechanical Toughness. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44624-44635	9.5	99
93	Robust, functionalized reduced graphene-based nanofibrous membrane for contaminated water purification. <i>Chemical Engineering Journal</i> , 2021 , 404, 126347	14.7	88
92	Electrospun frogspawn structured membrane for gravity-driven oil-water separation. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 136-144	9.3	87
91	NutriChip: nutrition analysis meets microfluidics. <i>Lab on A Chip</i> , 2013 , 13, 196-203	7.2	87
90	pH responsive polyurethane (core) and cellulose acetate phthalate (shell) electrospun fibers for intravaginal drug delivery. <i>Carbohydrate Polymers</i> , 2016 , 151, 1240-1244	10.3	83
89	Magnetic Electrospun Fibers for Cancer Therapy. <i>Advanced Functional Materials</i> , 2012 , 22, 2479-2486	15.6	79
88	Temperature-induced molecular orientation and mechanical properties of single electrospun polyimide nanofiber. <i>Materials Letters</i> , 2018 , 216, 81-83	3.3	70
87	Flexible and transparent composite nanofibre membrane that was fabricated via a "green" electrospinning method for efficient particulate matter 2.5 capture. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 506-514	9.3	67
86	Anisotropic nanocellulose aerogels with ordered structures fabricated by directional freeze-drying for fast liquid transport. <i>Cellulose</i> , 2019 , 26, 6653-6667	5.5	66
85	Multistructured Electrospun Nanofibers for Air Filtration: A Review. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23293-23313	9.5	65

84	Smart, Photothermally Activated, Antibacterial Surfaces with Thermally Triggered Bacteria-Releasing Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21283-21291	9.5	63
83	Gas-Shearing Fabrication of Multicompartmental Microspheres: A One-Step and Oil-Free Approach. <i>Advanced Science</i> , 2019 , 6, 1802342	13.6	63
82	Nature-inspired creation of a robust free-standing electrospun nanofibrous membrane for efficient oil/water separation. <i>Environmental Science: Nano</i> , 2018 , 5, 2909-2920	7.1	60
81	ZIF-8 derived porous N-doped ZnO with enhanced visible light-driven photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 102, 110-114	3.9	58
80	Core-shell structured electrospun nanofibrous membranes for oil/water separation. <i>RSC Advances</i> , 2016 , 6, 41861-41870	3.7	53
79	Unbreakable codes in electrospun fibers: digitally encoded polymers to stop medicine counterfeiting. <i>Advanced Materials</i> , 2010 , 22, 2657-62	24	49
78	High strength electrospun polymer nanofibers made from BPDABDA polyimide. <i>European Polymer Journal</i> , 2006 , 42, 1099-1104	5.2	48
77	Multifunctional Applications of Blow-Spinning Structured Fibrous Membranes in Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22874-22883	9.5	44
76	Highly Transparent, Strong, and Flexible Films with Modified Cellulose Nanofiber Bearing UV Shielding Property. <i>Biomacromolecules</i> , 2018 , 19, 4565-4575	6.9	44
75	Photothermal nanofibres enable safe engineering of therapeutic cells. <i>Nature Nanotechnology</i> , 2021 , 16, 1281-1291	28.7	43
74	Effective method of chitosan-coated alginate nanoparticles for target drug delivery applications. <i>Journal of Biomaterials Applications</i> , 2016 , 31, 3-12	2.9	42
73	Flexible, durable and magnetic nanofibrous membrane with pH-switchable wettability for efficient on-demand oil/water separation. <i>Environmental Science: Nano</i> , 2019 , 6, 3699-3711	7.1	41
72	High performance, environmentally friendly and sustainable nanofiber membrane filter for removal of particulate matter 1.0. <i>Journal of Colloid and Interface Science</i> , 2021 , 597, 48-55	9.3	41
71	Self-Healing and Superwetable Nanofibrous Membranes with Excellent Stability toward Multifunctional Applications in Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23644-23654	9.5	40
70	Stimuli-responsive nanobubbles for biomedical applications. <i>Chemical Society Reviews</i> , 2021 , 50, 5746-5776	25.5	40
69	Electrospun soy-protein-based nanofibrous membranes for effective antimicrobial air filtration. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45766	2.9	39
68	Fabrication of Sustained-release CA-PU Coaxial Electrospun Fiber Membranes for Plant Grafting Application. <i>Carbohydrate Polymers</i> , 2017 , 169, 198-205	10.3	35
67	Bio-based electrospun nanofiber as building blocks for a novel eco-friendly air filtration membrane: A review. <i>Separation and Purification Technology</i> , 2021 , 277, 119623	8.3	34

66	Materials and Technologies to Combat Counterfeiting of Pharmaceuticals: Current and Future Problem Tackling. <i>Advanced Materials</i> , 2020 , 32, e1905486	24	33
65	A novel xanthan gum-based conductive hydrogel with excellent mechanical, biocompatible, and self-healing performances. <i>Carbohydrate Polymers</i> , 2020 , 247, 116743	10.3	31
64	Antibacterial and Effective Air Filtration Membranes by Green Electrospinning and Citric Acid Crosslinking. <i>Colloids and Interface Science Communications</i> , 2018 , 23, 52-58	5.4	31
63	Redox-responsive blend hydrogel films based on carboxymethyl cellulose/chitosan microspheres as dual delivery carrier. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 413-421	7.9	30
62	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Color-Tunable Barcoding. <i>Small</i> , 2020 , 16, e1907586	11	30
61	Multifunctional Gas-Spinning Hierarchical Architecture: A Robust and Efficient Nanofiber Membrane for Simultaneous Air and Water Contaminant Remediation. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5686-5697	4.3	30
60	Selective Swelling of Electrospun Block Copolymers: From Perforated Nanofibers to High Flux and Responsive Ultrafiltration Membranes. <i>Macromolecules</i> , 2018 , 51, 2283-2292	5.5	29
59	Temperature-induced formation of cellulose nanofiber film with remarkably high gas separation performance. <i>Cellulose</i> , 2017 , 24, 5649-5656	5.5	28
58	Electronic textiles based on aligned electrospun belt-like cellulose acetate nanofibers and graphene sheets: portable, scalable and eco-friendly strain sensor. <i>Nanotechnology</i> , 2019 , 30, 045602	3.4	26
57	Preparation of nanocellulose/filter paper (NC/FP) composite membranes for high-performance filtration. <i>Cellulose</i> , 2019 , 26, 1183-1194	5.5	24
56	A green strategy for preparing durable underwater superoleophobic calcium alginate hydrogel coated-meshes for oil/water separation. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 13-19	7.9	22
55	Fabrication of superhydrophobic electrospun polyimide nanofibers modified with polydopamine and polytetrafluoroethylene nanoparticles for oil/water separation. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47638	2.9	22
54	In situ growth of hierarchical AlO nanostructures onto TiO nanofibers surface: super-hydrophilicity, efficient oil/water separation and dye-removal. <i>Nanotechnology</i> , 2018 , 29, 345607	3.4	22
53	Evaluation of toxicity of halloysite nanotubes and multi-walled carbon nanotubes to endothelial cells and blood vessels. <i>Nanotoxicology</i> , 2020 , 14, 1017-1038	5.3	20
52	Electrospun polystyrene fibers for HIV entrapment. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 827-834	3.4	18
51	Graphene oxide size-dependently altered lipid profiles in THP-1 macrophages. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 199, 110714	7	18
50	Triggered Release from Cellulose Microparticles Inspired by Wood Degradation by Fungi. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 387-397	8.3	18
49	Fluorescence detection of Escherichia coli on mannose modified ZnTe quantum dots. <i>Chinese Chemical Letters</i> , 2020 , 31, 1504-1507	8.1	18

48	A biocompatible and pH-responsive nanohydrogel based on cellulose nanocrystal for enhanced toxic reactive oxygen species generation. <i>Carbohydrate Polymers</i> , 2021 , 258, 117685	10.3	18
47	Multi-walled carbon nanotubes (MWCNTs) transformed THP-1 macrophages into foam cells: Impact of pulmonary surfactant component dipalmitoylphosphatidylcholine. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122286	12.8	17
46	Multifunctional nanofibrous membranes with sunlight-driven self-cleaning performance for complex oily wastewater remediation. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 164-174	9.3	17
45	SnPS monolayer: a promising 2D semiconductor for photocatalytic water splitting. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21064-21069	3.6	16
44	PTX-loaded three-layer PLGA/CS/ALG nanoparticle based on layer-by-layer method for cancer therapy. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 1566-1578	3.5	16
43	Modification of Cellulose with Succinic Anhydride in TBAA/DMSO Mixed Solvent under Catalyst-Free Conditions. <i>Materials</i> , 2017 , 10,	3.5	16
42	Designable dual-power micromotors fabricated from a biocompatible gas-shearing strategy. <i>Chemical Engineering Journal</i> , 2021 , 407, 127187	14.7	15
41	Well-defined multifunctional superhydrophobic green nanofiber membrane based-polyurethane with inherent antifouling, antiadhesive and photothermal bactericidal properties and its application in bacteria, living cells and zebra fish. <i>Composites Communications</i> , 2021 , 26, 100758	6.7	15
40	Boron- and nitrogen-doped photoluminescent polymer carbon nanoparticles as nanosensors for imaging detection of Cu ²⁺ and biothiols in living cells. <i>RSC Advances</i> , 2017 , 7, 47654-47661	3.7	14
39	Benzoinole-based bifunctional ratiometric turn-on sensor with an ICT effect for trapping of H and Al in dual-channel cell imaging and samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 247, 119123	4.4	13
38	A novel preparation method of paclitaxel-loaded folate-modified chitosan microparticles and in vitro evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016 , 27, 276-89	3.5	12
37	Blow-spun nanofibrous composite Self-cleaning membrane for enhanced purification of oily wastewater. <i>Journal of Colloid and Interface Science</i> , 2021 ,	9.3	11
36	Concentration Gradients in Material Sciences: Methods to Design and Biomedical Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2009005	15.6	11
35	Genistein-Derived ROS-Responsive Nanoparticles Relieve Colitis by Regulating Mucosal Homeostasis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40249-40266	9.5	11
34	Free-standing porous carbon nanofiber membranes obtained by one-step carbonization and activation for high-performance supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2021 , 329, 111545	5.3	9
33	"Turn-on" ratiometric fluorescent probe: Naked-eye detection of acidic pH and citric acid (CA) by using fluorescence spectrum and its application in real food samples and zebrafish. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 261, 120014	4.4	9
32	Biofumigation with volatile organic compounds from <i>Streptomyces alboflavus</i> TD-1 and pure chemicals to control <i>Aspergillus ochraceus</i> . <i>Annals of Applied Biology</i> , 2018 , 173, 313-322	2.6	8
31	UV-fluorescence probe for detection Ni with colorimetric/spectral dual-mode analysis method and its practical application. <i>Bioorganic Chemistry</i> , 2021 , 114, 105103	5.1	8

30	An autonomously ultrafast self-healing, highly colourless, tear-resistant and compliant elastomer tailored for transparent electromagnetic interference shielding films integrated in flexible and optical electronics. <i>Materials Horizons</i> , 2021 , 8, 3356-3367	14.4	8
29	Core-shell microparticles: From rational engineering to diverse applications.. <i>Advances in Colloid and Interface Science</i> , 2022 , 299, 102568	14.3	7
28	Healable, Adhesive, and Conductive Nanocomposite Hydrogels with Ultrastretchability for Flexible Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 58048-58058	9.5	7
27	Morphology engineering processed nanofibrous membranes with secondary structure for high-performance air filtration. <i>Separation and Purification Technology</i> , 2022 , 121093	8.3	7
26	A label-free and turn-on fluorescence sensor for sensitive and selective detection of iodide using carbon nanodots/silver nanocomposites. <i>Analytical Methods</i> , 2015 , 7, 4038-4043	3.2	6
25	Preparation of Single, Heteromorphic Microspheres, and Their Progress for Medical Applications. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000593	3.9	6
24	Dual-Functional Surfaces Based on an Antifouling Polymer and a Natural Antibiofilm Molecule: Prevention of Biofilm Formation without Using Biocides. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45191-45200	9.5	6
23	Rheological and mechanical study of regenerated cellulose/multi-walled carbon nanotube composites. <i>Nanotechnology</i> , 2016 , 27, 395707	3.4	5
22	Well-defined organic fluorescent nanomaterials with AIE characteristics for colorimetric/UV-vis/fluorescent multi-channel recognition of Zn ²⁺ with multiple applications in plant cells and zebrafish. <i>Materials Chemistry Frontiers</i> ,	7.8	5
21	Bubble Forming Films for Spatial Selective Cell Killing. <i>Advanced Materials</i> , 2021 , 33, e2008379	2.4	4
20	Comparison of multi-walled carbon nanotubes and halloysite nanotubes on lipid profiles in human umbilical vein endothelial cells.. <i>NanoImpact</i> , 2021 , 23, 100333	5.6	4
19	A tunable temperature-responsive and tough platform for controlled drug delivery. <i>New Journal of Chemistry</i> , 2021 , 45, 13056-13063	3.6	4
18	Photothermal scaffolds/surfaces for regulation of cell behaviors. <i>Bioactive Materials</i> , 2022 , 8, 449-477	16.7	4
17	Engineered extracellular vesicles and their mimics in cardiovascular diseases.. <i>Journal of Controlled Release</i> , 2022 , 347, 27-43	11.7	4
16	Quaternized chitin/tannic acid bilayers layer-by-layer deposited poly(lactic acid)/polyurethane nanofibrous mats decorated with photoresponsive complex and silver nanoparticles for antibacterial activity.. <i>International Journal of Biological Macromolecules</i> , 2022 , 201, 448-457	7.9	3
15	Universal Antifouling and Photothermal Antibacterial Surfaces Based on Multifunctional Metal-Phenolic Networks for Prevention of Biofilm Formation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48403-48413	9.5	3
14	Facile Preparation of Highly Luminescent Nitrogen-Doped Carbonaceous Nanospheres and Potential Application in Intracellular Imaging of Quercetin. <i>Australian Journal of Chemistry</i> , 2018 , 71, 882	1.2	3
13	High strength and ultralight lignin-mediated fire-resistant aerogel for repeated oil/water separation. <i>Carbon</i> , 2022 , 193, 285-297	10.4	3

12	MoS ₂ nanosheets and bulk materials altered lipid profiles in 3D Caco-2 spheroids. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
11	Bubble-Forming Films: Bubble Forming Films for Spatial Selective Cell Killing (Adv. Mater. 27/2021). <i>Advanced Materials</i> , 2021 , 33, 2170211	24	2
10	A novel green lignosulfonic acid/Nafion composite membrane with reduced cost and enhanced thermal stability. <i>Chemical Communications</i> , 2021 , 57, 9288-9291	5.8	2
9	Unbreakable codes in electrospun fibers to stop medicine counterfeiting. <i>Journal of Controlled Release</i> , 2010 , 148, e13-5	11.7	1
8	TiO nanosheets promote the transformation of vascular smooth muscle cells into foam cells in vitro and in vivo through the up-regulation of nuclear factor kappa B subunit 2. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127704	12.8	1
7	Design and fabrication of cellulose derived free-standing carbon nanofiber membranes for high performance supercapacitors. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021 , 2, 100117	1.7	1
6	Toxic reactive oxygen species enhanced chemodynamic therapy by copper metal-nanocellulose based nanocatalysts.. <i>Carbohydrate Polymers</i> , 2022 , 289, 119432	10.3	1
5	Light triggered nanoscale biolistics for efficient intracellular delivery of functional macromolecules in mammalian cells.. <i>Nature Communications</i> , 2022 , 13, 1996	17.4	1
4	A Prussian blue alginate microparticles platform based on gas-shearing strategy for antitumor and antibacterial therapy.. <i>International Journal of Biological Macromolecules</i> , 2022 , 209, 794-800	7.9	1
3	Genistein-based reactive oxygen species-responsive nanomaterial site-specifically relieves the intestinal toxicity of endocrine-disrupting chemicals.. <i>International Journal of Pharmaceutics</i> , 2022 , 615, 121478	6.5	0
2	Colorimetric/spectral dual-mode analysis of sensitive fluorescent probe based on 2,3,3-trimethyl-3H-benzo[e]indole detection of acid pH.. <i>Bioorganic Chemistry</i> , 2022 , 124, 105792	5.1	0
1	Anticancer activity study of paeoniflorin Ag(I) complexes against human hepatoma cells 3B cells. <i>Materials Express</i> , 2021 , 11, 1313-1320	1.3	