Chaobo Huang

List of Publications by Year in Descending Order

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	Genistein-based reactive oxygen species-responsive nanomaterial site-specifically relieves the intestinal toxicity of endocrine-disrupting chemicals.. *International Journal of Pharmaceutics*, **2022**, 615, 121478	6.5	0
118	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.. *International Journal of Biological Macromolecules*, **2022**, 201, 448-457	7.9	3
117	Core-shell microparticles: From rational engineering to diverse applications.. *Advances in Colloid and Interface Science*, **2022**, 299, 102568	14.3	7
116	Multifunctional nanofibrous membranes with sunlight-driven self-cleaning performance for complex oily wastewater remediation. *Journal of Colloid and Interface Science*, **2022**, 608, 164-174	9.3	17
115	Photothermal scaffolds/surfaces for regulation of cell behaviors. *Bioactive Materials*, **2022**, 8, 449-477	16.7	4
114	Colorimetric/spectral dual-mode analysis of sensitive fluorescent probe based on 2,3,3-trimethyl-3H-benzo[e]indole detection of acid pH.. *Bioorganic Chemistry*, **2022**, 124, 105792	5.1	0
113	High strength and ultralight lignin-mediated fire-resistant aerogel for repeated oil/water separation. *Carbon*, **2022**, 193, 285-297	10.4	3
112	Toxic reactive oxygen species enhanced chemodynamic therapy by copper metal-nanocellulose based nanocatalysts.. *Carbohydrate Polymers*, **2022**, 289, 119432	10.3	1
111	Morphology engineering processed nanofibrous membranes with secondary structure for high-performance air filtration. *Separation and Purification Technology*, **2022**, 121093	8.3	7
110	Light triggered nanoscale biolistics for efficient intracellular delivery of functional macromolecules in mammalian cells.. *Nature Communications*, **2022**, 13, 1996	17.4	1
109	A Prussian blue alginate microparticles platform based on gas-shearing strategy for antitumor and antibacterial therapy.. *International Journal of Biological Macromolecules*, **2022**, 209, 794-800	7.9	1
108	Engineered extracellular vesicles and their mimics in cardiovascular diseases.. *Journal of Controlled Release*, **2022**, 347, 27-43	11.7	4
107	Free-standing porous carbon nanofiber membranes obtained by one-step carbonization and activation for high-performance supercapacitors. *Microporous and Mesoporous Materials*, **2021**, 329, 111545	5.3	9
106	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. *Journal of Hazardous Materials*, **2021**, 424, 127704	12.8	1
105	Blow-spun nanofibrous composite Self-cleaning membrane for enhanced purification of oily wastewater. *Journal of Colloid and Interface Science*, **2021**,	9.3	11
104	Healable, Adhesive, and Conductive Nanocomposite Hydrogels with Ultrastretchability for Flexible Sensors. *ACS Applied Materials & Interfaces*, **2021**, 13, 58048-58058	9.5	7
103	Universal Antifouling and Photothermal Antibacterial Surfaces Based on Multifunctional Metal-Phenolic Networks for Prevention of Biofilm Formation. *ACS Applied Materials & Interfaces*, **2021**, 13, 48403-48413	9.5	3

102	Photothermal nanofibres enable safe engineering of therapeutic cells. *Nature Nanotechnology*, **2021**, 16, 1281-1291	28.7	43
101	Triggered Release from Cellulose Microparticles Inspired by Wood Degradation by Fungi. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 387-397	8.3	18
100	A biocompatible and pH-responsive nanohydrogel based on cellulose nanocrystal for enhanced toxic reactive oxygen species generation. *Carbohydrate Polymers*, **2021**, 258, 117685	10.3	18
99	Multifunctional Applications of Blow-Spinning Structured Fibrous Membranes in Water Purification. *ACS Applied Materials & Interfaces*, **2021**, 13, 22874-22883	9.5	44
98	Multistructured Electrospun Nanofibers for Air Filtration: A Review. *ACS Applied Materials & Interfaces*, **2021**, 13, 23293-23313	9.5	65
97	Bubble Forming Films for Spatial Selective Cell Killing. *Advanced Materials*, **2021**, 33, e2008379	24	4
96	MoS2 nanosheets and bulk materials altered lipid profiles in 3D Caco-2 spheroids. *Chinese Chemical Letters*, **2021**,	8.1	2
95	Comparison of multi-walled carbon nanotubes and halloysite nanotubes on lipid profiles in human umbilical vein endothelial cells.. *NanoImpact*, **2021**, 23, 100333	5.6	4
94	Bubble-Forming Films: Bubble Forming Films for Spatial Selective Cell Killing (Adv. Mater. 27/2021). *Advanced Materials*, **2021**, 33, 2170211	24	2
93	Robust, functionalized reduced graphene-based nanofibrous membrane for contaminated water purification. *Chemical Engineering Journal*, **2021**, 404, 126347	14.7	88
92	Designable dual-power micromotors fabricated from a biocompatible gas-shearing strategy. *Chemical Engineering Journal*, **2021**, 407, 127187	14.7	15
91	Flexible and transparent composite nanofibre membrane that was fabricated via a "green" electrospinning method for efficient particulate matter 2.5 capture. *Journal of Colloid and Interface Science*, **2021**, 582, 506-514	9.3	67
90	Benzoindole-based bifunctional ratiometric turn-on sensor with an ICT effect for trapping of H and Al in dual-channel cell imaging and samples. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 247, 119123	4.4	13
89	Preparation of Single, Heteromorphic Microspheres, and Their Progress for Medical Applications. *Macromolecular Materials and Engineering*, **2021**, 306, 2000593	3.9	6
88	A novel green lignosulfonic acid/Nafion composite membrane with reduced cost and enhanced thermal stability. *Chemical Communications*, **2021**, 57, 9288-9291	5.8	2
87	Stimuli-responsive nanobubbles for biomedical applications. *Chemical Society Reviews*, **2021**, 50, 5746-5765	58.5	40
86	A tunable temperature-responsive and tough platform for controlled drug delivery. *New Journal of Chemistry*, **2021**, 45, 13056-13063	3.6	4
85	Concentration Gradients in Material Sciences: Methods to Design and Biomedical Applications. *Advanced Functional Materials*, **2021**, 31, 2009005	15.6	11

84	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. *Composites Communications*, **2021**, 26, 100758	6.7	15
83	Genistein-Derived ROS-Responsive Nanoparticles Relieve Colitis by Regulating Mucosal Homeostasis. *ACS Applied Materials & Interfaces*, **2021**, 13, 40249-40266	9.5	11
82	Anticancer activity study of paeoniflorin Ag(I) complexes against human hepatoma cells 3B cells. *Materials Express*, **2021**, 11, 1313-1320	1.3	
81	UV-fluorescence probe for detection Ni with colorimetric/spectral dual-mode analysis method and its practical application. *Bioorganic Chemistry*, **2021**, 114, 105103	5.1	8
80	Dual-Functional Surfaces Based on an Antifouling Polymer and a Natural Antibiofilm Molecule: Prevention of Biofilm Formation without Using Biocides. *ACS Applied Materials & Interfaces*, **2021**, 13, 45191-45200	9.5	6
79	High performance, environmentally friendly and sustainable nanofiber membrane filter for removal of particulate matter 1.0. *Journal of Colloid and Interface Science*, **2021**, 597, 48-55	9.3	41
78	"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. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 261, 120014	4.4	9
77	Design and fabrication of cellulose derived free-standing carbon nanofiber membranes for high performance supercapacitors. *Carbohydrate Polymer Technologies and Applications*, **2021**, 2, 100117	1.7	1
76	Bio-based electrospun nanofiber as building blocks for a novel eco-friendly air filtration membrane: A review. *Separation and Purification Technology*, **2021**, 277, 119623	8.3	34
75	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. *Materials Horizons*, **2021**, 8, 3356-3367	14.4	8
74	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Color-Tunable Barcoding. *Small*, **2020**, 16, e1907586	11	30
73	Evaluation of toxicity of halloysite nanotubes and multi-walled carbon nanotubes to endothelial cells and blood vessels. *Nanotoxicology*, **2020**, 14, 1017-1038	5.3	20
72	A novel xanthan gum-based conductive hydrogel with excellent mechanical, biocompatible, and self-healing performances. *Carbohydrate Polymers*, **2020**, 247, 116743	10.3	31
71	Multi-walled carbon nanotubes (MWCNTs) transformed THP-1 macrophages into foam cells: Impact of pulmonary surfactant component dipalmitoylphosphatidylcholine. *Journal of Hazardous Materials*, **2020**, 392, 122286	12.8	17
70	Self-Healing and Superwettable Nanofibrous Membranes with Excellent Stability toward Multifunctional Applications in Water Purification. *ACS Applied Materials & Interfaces*, **2020**, 12, 23644-23654	9.5	40
69	Graphene oxide size-dependently altered lipid profiles in THP-1 macrophages. *Ecotoxicology and Environmental Safety*, **2020**, 199, 110714	7	18
68	Electrospun nanofiber membranes for wastewater treatment applications. *Separation and Purification Technology*, **2020**, 250, 117116	8.3	139
67	Smart, Photothermally Activated, Antibacterial Surfaces with Thermally Triggered Bacteria-Releasing Properties. *ACS Applied Materials & Interfaces*, **2020**, 12, 21283-21291	9.5	63

66	Fluorescence detection of Escherichia coli on mannose modified ZnTe quantum dots. *Chinese Chemical Letters*, **2020**, 31, 1504-1507	8.1	18
65	Biomimetic Durable Multifunctional Self-Cleaning Nanofibrous Membrane with Outstanding Oil/Water Separation, Photodegradation of Organic Contaminants, and Antibacterial Performances. *ACS Applied Materials & Interfaces*, **2020**, 12, 34999-35010	9.5	116
64	Multifunctional Gas-Spinning Hierarchical Architecture: A Robust and Efficient Nanofiber Membrane for Simultaneous Air and Water Contaminant Remediation. *ACS Applied Polymer Materials*, **2020**, 2, 5686-5697	4.3	30
63	Nature-inspired chemistry toward hierarchical superhydrophobic, antibacterial and biocompatible nanofibrous membranes for effective UV-shielding, self-cleaning and oil-water separation. *Journal of Hazardous Materials*, **2020**, 384, 121476	12.8	159
62	Hydrothermal synthesized UV-resistance and transparent coating composited superoloephilic electrospun membrane for high efficiency oily wastewater treatment. *Journal of Hazardous Materials*, **2020**, 383, 121152	12.8	140
61	Materials and Technologies to Combat Counterfeiting of Pharmaceuticals: Current and Future Problem Tackling. *Advanced Materials*, **2020**, 32, e1905486	24	33
60	SnPS monolayer: a promising 2D semiconductor for photocatalytic water splitting. *Physical Chemistry Chemical Physics*, **2019**, 21, 21064-21069	3.6	16
59	Biomass derived carbon as binder-free electrode materials for supercapacitors. *Carbon*, **2019**, 155, 706-726	10.4	149
58	Anisotropic nanocellulose aerogels with ordered structures fabricated by directional freeze-drying for fast liquid transport. *Cellulose*, **2019**, 26, 6653-6667	5.5	66
57	A green strategy for preparing durable underwater superoleophobic calcium alginate hydrogel coated-meshes for oil/water separation. *International Journal of Biological Macromolecules*, **2019**, 136, 13-19	7.9	22
56	Redox-responsive blend hydrogel films based on carboxymethyl cellulose/chitosan microspheres as dual delivery carrier. *International Journal of Biological Macromolecules*, **2019**, 134, 413-421	7.9	30
55	Ecofriendly Electrospun Membranes Loaded with Visible-Light-Responding Nanoparticles for Multifunctional Usages: Highly Efficient Air Filtration, Dye Scavenging, and Bactericidal Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 12880-12889	9.5	251
54	Fabrication of superhydrophobic electrospun polyimide nanofibers modified with polydopamine and polytetrafluoroethylene nanoparticles for oil□water separation. *Journal of Applied Polymer Science*, **2019**, 136, 47638	2.9	22
53	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. *Carbon*, **2019**, 149, 1-18	10.4	188
52	Electrospun frogspawn structured membrane for gravity-driven oil-water separation. *Journal of Colloid and Interface Science*, **2019**, 547, 136-144	9.3	87
51	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. *ACS Applied Materials & Interfaces*, **2019**, 11, 44624-44635	9.5	99
50	Gas-Shearing Fabrication of Multicompartmental Microspheres: A One-Step and Oil-Free Approach. *Advanced Science*, **2019**, 6, 1802342	13.6	63
49	Flexible, durable and magnetic nanofibrous membrane with pH-switchable wettability for efficient on-demand oil/water separation. *Environmental Science: Nano*, **2019**, 6, 3699-3711	7.1	41

48	Nanocellulose-templated assembly of polyaniline in natural rubber-based hybrid elastomers toward flexible electronic conductors. *Industrial Crops and Products*, **2019**, 128, 94-107	5.9	124
47	Preparation of nanocellulose/filter paper (NC/FP) composite membranes for high-performance filtration. *Cellulose*, **2019**, 26, 1183-1194	5.5	24
46	Stimuli-responsive bio-based polymeric systems and their applications. *Journal of Materials Chemistry B*, **2019**, 7, 709-729	7.3	387
45	Fabrication of highly durable and robust superhydrophobic-superoleophilic nanofibrous membranes based on a fluorine-free system for efficient oil/water separation. *Journal of Membrane Science*, **2019**, 570-571, 303-313	9.6	146
44	Electronic textiles based on aligned electrospun belt-like cellulose acetate nanofibers and graphene sheets: portable, scalable and eco-friendly strain sensor. *Nanotechnology*, **2019**, 30, 045602	3.4	26
43	Bio-based and photocrosslinked electrospun antibacterial nanofibrous membranes for air filtration. *Carbohydrate Polymers*, **2019**, 205, 55-62	10.3	107
42	Flexible Amoxicillin-Grafted Bacterial Cellulose Sponges for Wound Dressing: In Vitro and in Vivo Evaluation. *ACS Applied Materials & Interfaces*, **2018**, 10, 5862-5870	9.5	134
41	Temperature-induced molecular orientation and mechanical properties of single electrospun polyimide nanofiber. *Materials Letters*, **2018**, 216, 81-83	3.3	70
40	Antibacterial and Effective Air Filtration Membranes by Green Electrospinning and Citric Acid Crosslinking. *Colloids and Interface Science Communications*, **2018**, 23, 52-58	5.4	31
39	Selective Swelling of Electrospun Block Copolymers: From Perforated Nanofibers to High Flux and Responsive Ultrafiltration Membranes. *Macromolecules*, **2018**, 51, 2283-2292	5.5	29
38	Electrospun soy-protein-based nanofibrous membranes for effective antimicrobial air filtration. *Journal of Applied Polymer Science*, **2018**, 135, 45766	2.9	39
37	Green electrospun and crosslinked poly(vinyl alcohol)/poly(acrylic acid) composite membranes for antibacterial effective air filtration. *Journal of Colloid and Interface Science*, **2018**, 511, 411-423	9.3	99
36	Nanocellulose-Mediated Electroconductive Self-Healing Hydrogels with High Strength, Plasticity, Viscoelasticity, Stretchability, and Biocompatibility toward Multifunctional Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 27987-28002	9.5	296
35	Durable superhydrophobic and superoleophilic electrospun nanofibrous membrane for oil-water emulsion separation. *Journal of Colloid and Interface Science*, **2018**, 532, 12-23	9.3	113
34	Microstructures and mechanical properties of aligned electrospun carbon nanofibers from binary composites of polyacrylonitrile and polyamic acid. *Journal of Materials Science*, **2018**, 53, 15096-15106	4.3	107
33	PTX-loaded three-layer PLGA/CS/ALG nanoparticle based on layer-by-layer method for cancer therapy. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 1566-1578	3.5	16
32	In situ growth of hierarchical AlO nanostructures onto TiO nanofibers surface: super-hydrophilicity, efficient oil/water separation and dye-removal. *Nanotechnology*, **2018**, 29, 345607	3.4	22
31	Nature-inspired creation of a robust free-standing electrospun nanofibrous membrane for efficient oil–water separation. *Environmental Science: Nano*, **2018**, 5, 2909-2920	7.1	60

30	Highly Transparent, Strong, and Flexible Films with Modified Cellulose Nanofiber Bearing UV Shielding Property. *Biomacromolecules*, **2018**, 19, 4565-4575	6.9	44
29	Facile Preparation of Highly Luminescent Nitrogen-Doped Carbonaceous Nanospheres and Potential Application in Intracellular Imaging of Quercetin. *Australian Journal of Chemistry*, **2018**, 71, 882	1.2	3
28	Green Electrospun Nanofibers and Their Application in Air Filtration. *Macromolecular Materials and Engineering*, **2018**, 303, 1800336	3.9	181
27	Biofumigation with volatile organic compounds from Streptomyces alboflavus TD-1 and pure chemicals to control Aspergillus ochraceus. *Annals of Applied Biology*, **2018**, 173, 313-322	2.6	8
26	Fabrication of Sustained-release CA-PU Coaxial Electrospun Fiber Membranes for Plant Grafting Application. *Carbohydrate Polymers*, **2017**, 169, 198-205	10.3	35
25	Dual pH- and ammonia-vapor-responsive electrospun nanofibrous membranes for oil-water separations. *Journal of Membrane Science*, **2017**, 537, 128-139	9.6	123
24	Electrospun Nanofibers Membranes for Effective Air Filtration. *Macromolecular Materials and Engineering*, **2017**, 302, 1600353	3.9	313
23	ZIF-8 derived porous N-doped ZnO with enhanced visible light-driven photocatalytic activity. *Journal of Physics and Chemistry of Solids*, **2017**, 102, 110-114	3.9	58
22	Polyimide/cellulose acetate core/shell electrospun fibrous membranes for oil-water separation. *Separation and Purification Technology*, **2017**, 177, 71-85	8.3	110
21	Boron- and nitrogen-doped photoluminescent polymer carbon nanoparticles as nanosensors for imaging detection of Cu2+ and biothiols in living cells. *RSC Advances*, **2017**, 7, 47654-47661	3.7	14
20	Temperature-induced formation of cellulose nanofiber film with remarkably high gas separation performance. *Cellulose*, **2017**, 24, 5649-5656	5.5	28
19	Effects of nanocellulose on the structure and properties of poly(vinyl alcohol)-borax hybrid foams. *Cellulose*, **2017**, 24, 4433-4448	5.5	101
18	Modification of Cellulose with Succinic Anhydride in TBAA/DMSO Mixed Solvent under Catalyst-Free Conditions. *Materials*, **2017**, 10,	3.5	16
17	Rheological and mechanical study of regenerated cellulose/multi-walled carbon nanotube composites. *Nanotechnology*, **2016**, 27, 395707	3.4	5
16	pH responsive polyurethane (core) and cellulose acetate phthalate (shell) electrospun fibers for intravaginal drug delivery. *Carbohydrate Polymers*, **2016**, 151, 1240-1244	10.3	83
15	Electrospun fibers for oil–water separation. *RSC Advances*, **2016**, 6, 12868-12884	3.7	137
14	A novel preparation method of paclitaxcel-loaded folate-modified chitosan microparticles and in vitro evaluation. *Journal of Biomaterials Science, Polymer Edition*, **2016**, 27, 276-89	3.5	12
13	Core–sheath structured electrospun nanofibrous membranes for oil–water separation. *RSC Advances*, **2016**, 6, 41861-41870	3.7	53

12	Effective method of chitosan-coated alginate nanoparticles for target drug delivery applications. *Journal of Biomaterials Applications*, **2016**, 31, 3-12	2.9	42
11	A label-free and turn-on fluorescence sensor for sensitive and selective detection of iodide using carbon nanodots/silver nanocomposites. *Analytical Methods*, **2015**, 7, 4038-4043	3.2	6
10	Electrospun polystyrene fibers for HIV entrapment. *Polymers for Advanced Technologies*, **2014**, 25, 827-834	3.2	18
9	NutriChip: nutrition analysis meets microfluidics. *Lab on A Chip*, **2013**, 13, 196-203	7.2	87
8	Electrospun cellulose acetate phthalate fibers for semen induced anti-HIV vaginal drug delivery. *Biomaterials*, **2012**, 33, 962-9	15.6	131
7	Magnetic Electrospun Fibers for Cancer Therapy. *Advanced Functional Materials*, **2012**, 22, 2479-2486	15.6	79
6	Stimuli-responsive electrospun fibers and their applications. *Chemical Society Reviews*, **2011**, 40, 2417-34	58.5	164
5	Unbreakable codes in electrospun fibers to stop medicine counterfeiting. *Journal of Controlled Release*, **2010**, 148, e13-5	11.7	1
4	Unbreakable codes in electrospun fibers: digitally encoded polymers to stop medicine counterfeiting. *Advanced Materials*, **2010**, 22, 2657-62	24	49
3	High strength electrospun polymer nanofibers made from BPDA-PDA polyimide. *European Polymer Journal*, **2006**, 42, 1099-1104	5.2	48
2	Electrospun polymer nanofibres with small diameters. *Nanotechnology*, **2006**, 17, 1558-63	3.4	212
1	Well-defined organic fluorescent nanomaterials with AIE characteristics for colorimetric/UV-vis/fluorescent multi-channel recognition of Zn2+ with multiple applications in plant cells and zebrafish. *Materials Chemistry Frontiers*,	7.8	5