Chen Huang

List of Publications by Year
in descending order

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105 papers	3,995 citations	101543 36 h-index	138484 58 g-index
109 all docs	109 docs citations	109 times ranked	5293 citing authors

#	Article	IF	Citations
1	Electrospun collagenâ€“chitosanâ€“TPU nanofibrous scaffolds for tissue engineered tubular grafts. Colloids and Surfaces B: Biointerfaces, 2011, 82, 307-315.	5.0	201
2	Preparation and characterization of coaxial electrospun thermoplastic polyurethane/collagen compound nanofibers for tissue engineering applications. Colloids and Surfaces B: Biointerfaces, 2010, 79, 315-325.	5.0	179
3	Antimicrobial electrospun nanofibers of cellulose acetate and polyester urethane composite for wound dressing. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1556-1565.	3.4	163
4	Baicalein: A review of its anti-cancer effects and mechanisms in Hepatocellular Carcinoma. Biomedicine and Pharmacotherapy, 2017, 93, 1285-1291.	5.6	126
5	Nerve Guidance Conduits from Aligned Nanofibers: Improvement of Nerve Regeneration through Longitudinal Nanogrooves on a Fiber Surface. ACS Applied Materials & Interfaces, 2015, 7, 7189-7196.	8.0	118
6	Design of electret polypropylene melt blown air filtration material containing nucleating agent for effective PM2.5 capture. RSC Advances, 2018, 8, 7932-7941.	3.6	112
7	Hierarchically structured TiO2/PAN nanofibrous membranes for high-efficiency air filtration and toluene degradation. Journal of Colloid and Interface Science, 2017, 507, 386-396.	9.4	111
8	Genipinâ€crosslinked silk fibroin/hydroxybutyl chitosan nanofibrous scaffolds for tissueâ€engineering application. Journal of Biomedical Materials Research - Part A, 2010, 95A, 870-881.	4.0	106
9	Electrospinning collagen/chitosan/poly(<scp>L</scp>â€lactic acidâ€coâ€Ïµâ€caprolactone) to form a vascular graft: Mechanical and biological characterization. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1292-1301.	4.0	106
10	Improved performances of lithium-ion batteries with a separator based on inorganic fibers. Journal of Materials Chemistry A, 2017, 5, 311-318.	10.3	96
11	Poly(l-lactide-co-É›-caprolactone) electrospun nanofibers for encapsulating and sustained releasing proteins. Polymer, 2009, 50, 4212-4219.	3.8	86
12	Three-dimensional polycaprolactone scaffold via needleless electrospinning promotes cell proliferation and infiltration. Colloids and Surfaces B: Biointerfaces, 2014, 121, 432-443.	5.0	78
13	Controlling the Secondary Surface Morphology of Electrospun PVDF Nanofibers by Regulating the Solvent and Relative Humidity. Nanoscale Research Letters, 2018, 13, 285.	5.7	76
14	Fabrication of silk fibroin blended P(LLAâ€CL) nanofibrous scaffolds for tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 93A, 984-993.	4.0	75
15	Honeycomb-like polysulphone/polyurethane nanofiber filter for the removal of organic/inorganic species from air streams. Journal of Hazardous Materials, 2018, 347, 325-333.	12.4	67
16	Cell Infiltration and Vascularization in Porous Nanoyarn Scaffolds Prepared by Dynamic Liquid Electrospinning. Journal of Biomedical Nanotechnology, 2014, 10, 603-614.	1.1	66
17	Heparin Loading and Pre-endothelialization in Enhancing the Patency Rate of Electrospun Small-Diameter Vascular Grafts in a Canine Model. ACS Applied Materials & Interfaces, 2013, 5, 2220-2226.	8.0	65
18	Lowâ€Cost, Unsinkable, and Highly Efficient Solar Evaporators Based on Coating MWCNTs on Nonwovens with Unidirectional Waterâ€Transfer. Advanced Science, 2021, 8, e2101727.	11.2	65

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19	Electrospinning of nanofibres with parallel line surface texture for improvement of nerve cell growth. Soft Matter, 2011, 7, 10812.	2.7	62
20	Nanocrystalline MnO₂ on an activated carbon fiber for catalytic formaldehyde removal. RSC Advances, 2016, 6, 97022-97029.	3.6	59
21	Multifunctional polyethylene (PE)/polypropylene (PP) bicomponent fiber filter with anchored nanocrystalline MnO₂ for effective air purification. Journal of Materials Chemistry A, 2018, 6, 14856-14866.	10.3	58
22	Electrospinning of Grooved Polystyrene Fibers: Effect of Solvent Systems. Nanoscale Research Letters, 2015, 10, 949.	5.7	52
23	A multi-layered vascular scaffold with symmetrical structure by bi-directional gradient electrospinning. Colloids and Surfaces B: Biointerfaces, 2015, 133, 179-188.	5.0	52
24	Facile Strategy for Fabrication of Flexible, Breathable, and Washable Piezoelectric Sensors via Welding of Nanofibers with Multiwalled Carbon Nanotubes (MWCNTs). ACS Applied Materials & Interfaces, 2019, 11, 38023-38030.	8.0	52
25	Fabrication of Seamless Electrospun Collagen/PLGA Conduits Whose Walls Comprise Highly Longitudinal Aligned Nanofibers for Nerve Regeneration. Journal of Biomedical Nanotechnology, 2013, 9, 931-943.	1.1	50
26	Nerve conduits constructed by electrospun P(LLA-CL) nanofibers and PLLA nanofiber yarns. Journal of Materials Chemistry B, 2015, 3, 8823-8831.	5.8	50
27	Fabrication of a polyvinylidene fluoride cactus-like nanofiber through one-step electrospinning. RSC Advances, 2018, 8, 42353-42360.	3.6	49
28	Grooved Fibers: Preparation Principles Through Electrospinning and Potential Applications. Advanced Fiber Materials, 2022, 4, 203-213.	16.1	48
29	Polytetrafluoroethylene/Polyphenylene Sulfide Needle-Punched Triboelectric Air Filter for Efficient Particulate Matter Removal. ACS Applied Materials & Interfaces, 2019, 11, 48437-48449.	8.0	47
30	A mini review on the generation of crimped ultrathin fibers via electrospinning: Materials, strategies, and applications. Polymers for Advanced Technologies, 2020, 31, 1449-1462.	3.2	47
31	A review on piezoelectric fibers and nanowires for energy harvesting. Journal of Industrial Textiles, 2021, 51, 297-340.	2.4	46
32	Low resistance bicomponent spunbond materials for fresh air filtration with ultra-high dust holding capacity. RSC Advances, 2017, 7, 43879-43887.	3.6	44
33	Maneuvering surface structures of polyvinylidene fluoride nanofibers by controlling solvent systems and polymer concentration. Textile Reseach Journal, 2019, 89, 2406-2422.	2.2	43
34	Evaluation of in vitro and in vivo biocompatibility of a myo-inositol hexakisphosphate gelated polyaniline hydrogel in a rat model. Scientific Reports, 2016, 6, 23931.	3.3	42
35	Degradation of electrospun SF/P(LLA-CL) blended nanofibrous scaffolds inÂvitro. Polymer Degradation and Stability, 2011, 96, 2266-2275.	5.8	40
36	A comparison of nanoscale and multiscale PCL/gelatin scaffolds prepared by disc-electrospinning. Colloids and Surfaces B: Biointerfaces, 2016, 146, 632-641.	5.0	40

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37	Baicalein sensitizes hepatocellular carcinoma cells to 5-FU and Epirubicin by activating apoptosis and ameliorating P-glycoprotein activity. Biomedicine and Pharmacotherapy, 2018, 98, 806-812.	5.6	38
38	One-step treatment of periodontitis based on a core-shell micelle-in-nanofiber membrane with time-programmed drug release. Journal of Controlled Release, 2020, 320, 201-213.	9.9	38
39	Electrospun poly(<scp>l</scp>-lactide-co-caprolactone)â€“collagenâ€“chitosan vascular graft in a canine femoral artery model. Journal of Materials Chemistry B, 2015, 3, 5760-5768.	5.8	36
40	Repetitive restraint stress changes spleen immune cell subsets through glucocorticoid receptor or Î²-adrenergic receptor in a stage dependent manner. Biochemical and Biophysical Research Communications, 2018, 495, 1108-1114.	2.1	36
41	Multi-Layered, Corona Charged Melt Blown Nonwovens as High Performance PM0.3 Air Filters. Polymers, 2021, 13, 485.	4.5	36
42	Electrospun scaffolds from silk fibroin and their cellular compatibility. Journal of Biomedical Materials Research - Part A, 2010, 93A, 976-983.	4.0	34
43	Chronic restraint stress promotes hepatocellular carcinoma growth by mobilizing splenic myeloid cells through activating Î²-adrenergic signaling. Brain, Behavior, and Immunity, 2019, 80, 825-838.	4.1	34
44	Combining polymeric membranes with inorganic woven fabric: Towards the continuous and affordable fabrication of a multifunctional separator for lithium-ion battery. Journal of Membrane Science, 2019, 592, 117364.	8.2	32
45	Direct Electrospinning of Ultrafine Fibers with Interconnected Macropores Enabled by in Situ Mixing Microfluidics. ACS Applied Materials & Interfaces, 2016, 8, 34870-34878.	8.0	31
46	Design of threeâ€dimensional gradient nonwoven composites with robust dust holding capacity for air filtration. Journal of Applied Polymer Science, 2019, 136, 47827.	2.6	31
47	Humic acid-assisted autohydrolysis of waste wheat straw to sustainably improve enzymatic hydrolysis. Bioresource Technology, 2020, 306, 123103.	9.6	31
48	Double-grooved nanofibre surfaces with enhanced anisotropic hydrophobicity. Nanoscale, 2017, 9, 16214-16222.	5.6	30
49	Electrospun Silk Fibroinâ€“Hydroxybutyl Chitosan Nanofibrous Scaffolds to Biomimic Extracellular Matrix. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 1069-1082.	3.5	29
50	Fabrication of Silk Fibroin/P(LLAâ€CL) Aligned Nanofibrous Scaffolds for Nerve Tissue Engineering. Macromolecular Materials and Engineering, 2013, 298, 565-574.	3.6	29
51	High-efficiency catalytic performance over mesoporous Ni/beta zeolite for the synthesis of quinoline from glycerol and aniline. RSC Advances, 2017, 7, 9551-9561.	3.6	29
52	Tailoring the grooved texture of electrospun polystyrene nanofibers by controlling the solvent system and relative humidity. Nanoscale Research Letters, 2014, 9, 350.	5.7	28
53	Online fabrication of ultralight, three-dimensional, and structurally stable ultrafine fibre assemblies with a double-porous feature. Nanoscale, 2019, 11, 8185-8195.	5.6	28
54	Potential biomarkers for adult acute myeloid leukemia minimal residual disease assessment searched by serum peptidome profiling. Proteome Science, 2013, 11, 39.	1.7	27

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55	Preparation and characterization of nanoparticle reinforced alginate fibers with high porosity for potential wound dressing application. RSC Advances, 2017, 7, 39349-39358.	3.6	27
56	An electrospun poly(Îµ-caprolactone) nanocomposite fibrous mat with a high content of hydroxyapatite to promote cell infiltration. RSC Advances, 2018, 8, 25228-25235.	3.6	27
57	Detection of CCND1 amplification using laser capture microdissection coupled with real-time polymerase chain reaction in human esophageal squamous cell carcinoma. Cancer Genetics and Cytogenetics, 2007, 175, 19-25.	1.0	26
58	Environmentally friendly and breathable wet-laid hydroentangled nonwovens for personal hygiene care with excellent water absorbency and flushability. Royal Society Open Science, 2018, 5, 171486.	2.4	26
59	Enhanced efficacy of baicalin-loaded TPGS polymeric micelles against periodontitis. Materials Science and Engineering C, 2019, 101, 387-395.	7.3	25
60	Coating of multi-wall carbon nanotubes (MWCNTs) on three-dimensional, bicomponent nonwovens as wearable and high-performance piezoresistive sensors. Chemical Engineering Journal, 2021, 425, 130682.	12.7	24
61	Discâ€electrospun cellulose acetate butyrate nanofibers show enhanced cellular growth performances. Journal of Biomedical Materials Research - Part A, 2013, 101A, 115-122.	4.0	23
62	Histone-lysine N-methyltransferase SETD7 is a potential serum biomarker for colorectal cancer patients. EBioMedicine, 2018, 37, 134-143.	6.1	23
63	Enhancing enzymatic digestibility of waste wheat straw by presoaking to reduce the ash-influencing effect on autohydrolysis. Biotechnology for Biofuels, 2019, 12, 222.	6.2	23
64	Serum peptidome based biomarkers searching for monitoring minimal residual disease in adult acute lymphocytic leukemia. Proteome Science, 2014, 12, 49.	1.7	22
65	Design, synthesis and biological evaluation of hesperetin derivatives as potent anti-inflammatory agent. FÃ¬toterapÃ¬Ã¢, 2017, 121, 212-222.	2.2	22
66	MicroRNA-214 suppresses the proliferation of human hepatocellular carcinoma cells by targeting E2F3. Oncology Letters, 2015, 10, 3779-3784.	1.8	21
67	Needleless Electrospinning of Polystyrene Fibers with an Oriented Surface Line Texture. Journal of Nanomaterials, 2012, 2012, 1-7.	2.7	20
68	Dual micelles-loaded gelatin nanofibers and their application in lipopolysaccharide-induced periodontal disease . International Journal of Nanomedicine, 2019, Volume 14, 963-976.	6.7	20
69	A new dispersible moist wipe from wetlaid/spunlace nonwoven: Development and characterization. Journal of Industrial Textiles, 2019, 48, 1136-1150.	2.4	20
70	Dysregulation of miRNAs and their potential as biomarkers for the diagnosis of gastric cancer. Biomedical Reports, 2013, 1, 907-912.	2.0	18
71	The effects of exogenous ash on the autohydrolysis and enzymatic hydrolysis of wheat straw. Bioresource Technology, 2019, 286, 121411.	9.6	18
72	Preparation of composite tubular grafts for vascular repair via electrospinning. Progress in Natural Science: Materials International, 2012, 22, 108-114.	4.4	17

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73	A novel heparin loaded poly(l-lactide-co-caprolactone) covered stent for aneurysm therapy. Materials Letters, 2014, 116, 39-42.	2.6	16
74	Downy feather-like para-aramid fibers and nonwovens with enhanced absorbency, air filtration and thermal insulation performances. Nano Research, 2022, 15, 5695-5704.	10.4	16
75	Online prediction of the filtration performance of polypropylene melt blown nonwovens by blueâ€colored glow. Journal of Applied Polymer Science, 2018, 135, 45948.	2.6	15
76	Fabrication of Polypropylene-g-(Diallylamino Triazine) Bifunctional Nonwovens with Antibacterial and Air Filtration Activities by Reactive Extrusion and Melt-Blown Technology. Journal of Chemistry, 2019, 2019, 1-11.	1.9	15
77	Surface fibrillation ofpara-aramid nonwoven as a multi-functional air filter with ultralow pressure drop. Journal of Materials Chemistry A, 2020, 8, 22269-22279.	10.3	15
78	Regenerated collagen fibers with grooved surface texture: Physicochemical characterization and cytocompatibility. Materials Science and Engineering C, 2016, 58, 750-756.	7.3	14
79	Ampicillin-incorporated alginate-chitosan fibers from microfluidic spinning and for vitro release. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1408-1425.	3.5	13
80	Proteomic Profiling of Invasive Ductal Carcinoma (IDC) using Magnetic Beadsâ€based Serum Fractionation and MALDIâ€TOF MS. Journal of Clinical Laboratory Analysis, 2015, 29, 321-327.	2.1	12
81	Electronic structure and optical properties of boron-sulfur symmetric codoping in 4 Ã— 4 graphene systems. European Physical Journal B, 2015, 88, 1.	1.5	11
82	Green and Scalable Fabrication of Nonwoven Composites Featured with Anisotropic Water Penetration. ACS Sustainable Chemistry and Engineering, 2019, 7, 19679-19685.	6.7	11
83	Effects of short-cut fiber type and water-jet pressure sum on wet strength and dispersibility of wood pulp-based wetlaid/spunlace wipes. European Journal of Wood and Wood Products, 2019, 77, 33-43.	2.9	10
84	A comparative study of electrospun polyvinylidene fluoride and poly(vinylidenefluoride-co-trifluoroethylene) fiber webs: Mechanical properties, crystallinity, and piezoelectric properties. Journal of Engineered Fibers and Fabrics, 2020, 15, 155892502093929.	1.0	10
85	Enhanced air filtration performances by coating aramid nanofibres on a melt-blown nonwoven. Nanoscale, 2022, 14, 419-427.	5.6	10
86	Fabrication and characterization of a novel facial mask substrates based on thermoplastic polyester elastomer fibers. Journal of the Textile Institute, 2020, 111, 1231-1237.	1.9	9
87	Needleâ€punched nonwoven matrix from regenerated collagen fiber for cartilage tissue engineering. Journal of Applied Polymer Science, 2014, 131, .	2.6	8
88	Influence of <scp>K</scp>⁺ and <scp>N</scp>a⁺ ions on the degradation of wetâ€spun alginate fibers for tissue engineering. Journal of Applied Polymer Science, 2017, 134, .	2.6	8
89	Unrevealing model compounds of soil conditioners impacts on the wheat straw autohydrolysis efficiency and enzymatic hydrolysis. Biotechnology for Biofuels, 2020, 13, 122.	6.2	8
90	A terrified-sound stress induced proteomic changes in adult male rat hippocampus. Physiology and Behavior, 2014, 128, 32-38.	2.1	7

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91	Study on Needle and Needleless Electrospinning for Nanofibers. Advanced Materials Research, 2013, 750-752, 276-279.	0.3	5
92	Poly(butylene terephthalate) Fiber Assembly with Controllable Pore Size and Gradient Wettability: Potential in Simplifying Cell Culture Procedure. ACS Macro Letters, 2018, 7, 1192-1197.	4.8	5
93	Tensile Strength and Dispersibility of Pulp/Danufil Wet-Laid Hydroentangled Nonwovens. Materials, 2019, 12, 3931.	2.9	5
94	A comparative study of characteristics of polytetrafluoroethylene fibers manufactured by various processes. Journal of Applied Polymer Science, 2016, 133, .	2.6	4
95	Wettability Improvement of Poly (Butylene Terephthalate) Nanofibrous Mats Prepared via Electrospinning by Blending With Regenerated Silk Fibroin. Journal of Macromolecular Science - Physics, 2014, 53, 1629-1641.	1.0	2
96	Triboelectric Effect of Polytetrafluoroethylene Fibers to Improve the Filtration Performance of Air-Purified Materials. Journal of Engineered Fibers and Fabrics, 2018, 13, 155892501801300.	1.0	2
97	Toxic effects of ammonia on the embryonic development of the cuttlefishSepia pharaonis. Aquaculture Research, 2019, 50, 505-512.	1.8	2
98	Analysis of Competing Endogenous RNAs and MicroRNAs in Tea (Camellia sinensis) Leaves During Infection by the Leaf Spot Pathogen Pestalotiopsis trachicarpicola. Molecular Plant-Microbe Interactions, 2022, 35, 432-438.	2.6	2
99	Additional noradrenergic depletion aggravates forelimb akinesia and abnormal subthalamic nucleus activity in a rat model of Parkinson's disease. Life Sciences, 2014, 119, 18-27.	4.3	1
100	A directional liquid-transfer nonwoven for skin tissue engineering. Journal of Controlled Release, 2015, 213, e18-e19.	9.9	1
101	Comparative Transcriptomic Analyses of Haemophilus parasuis Reveal Differently Expressed Genes among Strains with Different Virulence Degrees. Current Microbiology, 2021, 78, 1566-1576.	2.2	1
102	Improvement of Uniformity of Needleless Electrospun Nanofibers. Advanced Materials Research, 0, 821-822, 200-203.	0.3	0
103	Disc-Electrospun Nano/Macro-Scale PCL Fibers with Nanoporous Structure. Advanced Materials Research, 2014, 893, 124-127.	0.3	0
104	Dual micelles loaded gelatin nanofibers and their application in lipopolysaccharide-induced periodontal disease. Journal of Controlled Release, 2017, 259, e163.	9.9	0
105	Comparing accuracy of the methods of polytetrafluoroethylene fiber linear density measurement. Textile Reseach Journal, 2019, 89, 675-687.	2.2	0