

Fenglin Huang

List of Publications by Year in descending order

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99
papers

3,460
citations

101384

36
h-index

155451

55
g-index

100
all docs

100
docs citations

100
times ranked

4620
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal stability, latent heat and flame retardant properties of the thermal energy storage phase change materials based on paraffin/high density polyethylene composites. <i>Renewable Energy</i> , 2009, 34, 2117-2123.	4.3	161
2	Effects of nano-SiO ₂ on morphology, thermal energy storage, thermal stability, and combustion properties of electrospun lauric acid/PET ultrafine composite fibers as form-stable phase change materials. <i>Applied Energy</i> , 2011, 88, 2106-2112.	5.1	150
3	A room temperature ammonia gas sensor based on cellulose/TiO ₂ /PANI composite nanofibers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 494, 248-255.	2.3	141
4	Preparation of Amidoxime Polyacrylonitrile Chelating Nanofibers and Their Application for Adsorption of Metal Ions. <i>Materials</i> , 2013, 6, 969-980.	1.3	135
5	Coaxial Electrospun Cellulose-Core Fluoropolymer-Shell Fibrous Membrane from Recycled Cigarette Filter as Separator for High Performance Lithium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 932-940.	3.2	119
6	Novel Phenolic Biosensor Based on a Magnetic Polydopamine-Laccase-Nickel Nanoparticle Loaded Carbon Nanofiber Composite. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5144-5151.	4.0	117
7	Formation of Yolk-Shelled Nickel-Cobalt Selenide Dodecahedral Nanocages from Metal-Organic Frameworks for Efficient Hydrogen and Oxygen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10952-10959.	3.2	110
8	Preparation and properties studies of halogen-free flame retardant form-stable phase change materials based on paraffin/high density polyethylene composites. <i>Applied Energy</i> , 2008, 85, 765-775.	5.1	104
9	Highly Sensitive and Stretchable CNT-Bridged AgNP Strain Sensor Based on TPU Electrospun Membrane for Human Motion Detection. <i>Advanced Electronic Materials</i> , 2019, 5, 1900241.	2.6	96
10	Fabrication of PA6/TiO ₂ /PANI composite nanofibers by electrospinning-electrospraying for ammonia sensor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 461, 113-118.	2.3	75
11	Sonochemical Synthesis of Ordered SnO ₂ /CMK-3 Nanocomposites and Their Lithium Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3704-3708.	4.0	71
12	All-Fiber-Structured Triboelectric Nanogenerator via One-Pot Electrospinning for Self-Powered Wearable Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24774-24784.	4.0	68
13	Dynamic contact angles and morphology of PP fibres treated with plasma. <i>Polymer Testing</i> , 2006, 25, 22-27.	2.3	61
14	Facile fabrication of gold nanoparticle on zein ultrafine fibers and their application for catechol biosensor. <i>Applied Surface Science</i> , 2015, 328, 444-452.	3.1	57
15	Fabrication and characterization of electrospun SiO ₂ nanofibers absorbed with fatty acid eutectics for thermal energy storage/retrieval. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 183-190.	3.0	57
16	Nanostructures and surface nanomechanical properties of polyacrylonitrile/graphene oxide composite nanofibers by electrospinning. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1152-1157.	1.3	56
17	Laccase Immobilized on a PAN/Adsorbents Composite Nanofibrous Membrane for Catechol Treatment by a Biocatalysis/Adsorption Process. <i>Molecules</i> , 2014, 19, 3376-3388.	1.7	56
18	Biosensor based on bacterial cellulose-Au nanoparticles electrode modified with laccase for hydroquinone detection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 509, 408-414.	2.3	55

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19	Fabrication of polyaniline/carboxymethyl cellulose/cellulose nanofibrous mats and their biosensing application. <i>Applied Surface Science</i> , 2015, 349, 35-42.	3.1	54
20	MOF-based C-doped coupled TiO ₂ /ZnO nanofibrous membrane with crossed network connection for enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2019, 777, 982-990.	2.8	52
21	FRET as a novel strategy to enhance the singlet oxygen generation of porphyrinic MOF decorated self-disinfecting fabrics. <i>Chemical Engineering Journal</i> , 2020, 395, 125012.	6.6	52
22	Activity of Laccase Immobilized on TiO ₂ -Montmorillonite Complexes. <i>International Journal of Molecular Sciences</i> , 2013, 14, 12520-12532.	1.8	51
23	Dynamic wetting behavior of plasma treated PET fibers. <i>Journal of Materials Processing Technology</i> , 2007, 194, 89-92.	3.1	49
24	Graphene oxide improved thermal and mechanical properties of electrospun methyl stearate/polyacrylonitrile form-stable phase change composite nanofibers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 109-122.	2.0	48
25	Ammonia Sensing Behaviors of TiO ₂ -PANI/PA6 Composite Nanofibers. <i>Sensors</i> , 2012, 12, 17046-17057.	2.1	47
26	Smart Textiles with Self-Disinfection and Photothermochromic Effects. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2245-2255.	4.0	46
27	Structure, morphology, thermal stability and carbonization mechanism studies of electrospun PA6/Fe-OMT nanocomposite fibers. <i>Polymer Degradation and Stability</i> , 2008, 93, 2180-2185.	2.7	45
28	Facile fabrication of flexible SiO ₂ /PANI nanofibers for ammonia gas sensing at room temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 537, 532-539.	2.3	43
29	Surface functionalization of silk fabric by PTFE sputter coating. <i>Journal of Materials Science</i> , 2007, 42, 8025-8028.	1.7	41
30	Electrospun form-stable phase change composite nanofibers consisting of capric acid-based binary fatty acid eutectics and polyethylene terephthalate. <i>Fibers and Polymers</i> , 2013, 14, 89-99.	1.1	41
31	Carboxymethyl cellulose assisted immobilization of silver nanoparticles onto cellulose nanofibers for the detection of catechol. <i>Journal of Electroanalytical Chemistry</i> , 2015, 738, 92-99.	1.9	41
32	Thermal energy storage and retrieval properties of form-stable phase change nanofibrous mats based on ternary fatty acid eutectics/polyacrylonitrile composite by magnetron sputtering of silver. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 1293-1307.	2.0	40
33	Dynamic water adsorption behaviour of plasma-treated polypropylene nonwovens. <i>Polymer Testing</i> , 2006, 25, 717-722.	2.3	39
34	TiO ₂ -CuCNFs based laccase biosensor for enhanced electrocatalysis in hydroquinone detection. <i>Journal of Electroanalytical Chemistry</i> , 2016, 766, 16-23.	1.9	38
35	High Adsorption Pearl-Necklace-Like Composite Membrane Based on Metal-Organic Framework for Heavy Metal Ion Removal. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700438.	1.2	38
36	Ceramic Nanoparticle-Decorated Melt-Electrospun PVDF Nanofiber Membrane with Enhanced Performance as a Lithium-Ion Battery Separator. <i>ACS Omega</i> , 2019, 4, 16309-16317.	1.6	38

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37	Polyester fabric coated with Ag/ZnO composite film by magnetron sputtering. Applied Surface Science, 2016, 390, 863-869.	3.1	37
38	Immobilization of catalases on amidoxime polyacrylonitrile nanofibrous membranes. Polymer International, 2013, 62, 251-256.	1.6	34
39	Laccase Immobilization by Chelated Metal Ion Coordination Chemistry. Polymers, 2014, 6, 2357-2370.	2.0	33
40	Effects of SiO ₂ nanoparticles on structure and property of form-stable phase change materials made of cellulose acetate phase inversion membrane absorbed with capric-myristic-stearic acid ternary eutectic mixture. Thermochimica Acta, 2017, 653, 49-58.	1.2	33
41	FeNi alloy nanoparticles embedded in electrospun nitrogen-doped carbon fibers for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2020, 578, 805-813.	5.0	33
42	Effect of In ₂ O ₃ nanofiber structure on the ammonia sensing performances of In ₂ O ₃ /PANI composite nanofibers. Journal of Materials Science, 2017, 52, 686-695.	1.7	32
43	Characterization of nonwoven material functionalized by sputter coating of copper. Surface and Coatings Technology, 2008, 202, 2535-2539.	2.2	31
44	Design of flexible PANI-coated CuO-TiO ₂ -SiO ₂ heterostructure nanofibers with high ammonia sensing response values. Nanotechnology, 2017, 28, 225501.	1.3	31
45	Light-driven self-disinfecting textiles functionalized by PCN-224 and Ag nanoparticles. Journal of Hazardous Materials, 2021, 416, 125786.	6.5	31
46	Insight into light-driven antibacterial cotton fabrics decorated by in situ growth strategy. Journal of Colloid and Interface Science, 2020, 579, 233-242.	5.0	29
47	A new method to prepare no-binder, integral electrodes-separator, asymmetric all-solid-state flexible supercapacitor derived from bacterial cellulose. Journal of Physics and Chemistry of Solids, 2017, 110, 202-210.	1.9	27
48	Effect of temperature on structure, morphology and crystallinity of PVDF nanofibers via electrospinning. E-Polymers, 2008, 8, .	1.3	26
49	3D Lamellar Structure of Biomass-Based Porous Carbon Derived from Towel Gourd toward Phase Change Composites with Thermal Management and Protection. ACS Applied Bio Materials, 2020, 3, 8923-8932.	2.3	26
50	Effect of CSA Concentration on the Ammonia Sensing Properties of CSA-Doped PA6/PANI Composite Nanofibers. Sensors, 2014, 14, 21453-21465.	2.1	25
51	Flexible, Stretchable, and Multifunctional Electrospun Polyurethane Mats with 0D-1D-2D Ternary Nanocomposite-Based Conductive Networks. Advanced Electronic Materials, 2021, 7, .	2.6	25
52	Surface functionalization, morphology and thermal properties of polyamide6/O-MMT composite nanofibers by Fe ₂ O ₃ sputter coating. Applied Surface Science, 2008, 254, 5501-5505.	3.1	24
53	Influences of organic-modified Fe-montmorillonite on structure, morphology and properties of polyacrylonitrile nanocomposite fibers. Fibers and Polymers, 2009, 10, 750-755.	1.1	24
54	Comparison Between Structures and Properties of ABS Nanocomposites Derived from Two Different Kinds of OMT. Journal of Materials Engineering and Performance, 2010, 19, 171-176.	1.2	24

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55	Solvothermal synthesis of NiO/C hybrid microspheres as Li-intercalation electrode material. <i>Materials Letters</i> , 2010, 64, 1022-1024.	1.3	21
56	Structure, Thermal, and Antibacterial Properties of Polyacrylonitrile/Ferric Chloride Nanocomposite Fibers by Electrospinning. <i>International Journal of Polymer Analysis and Characterization</i> , 2010, 15, 110-118.	0.9	21
57	Electrochemical Properties of LLTO/Fluoropolymer-Shell Cellulose-Core Fibrous Membrane for Separator of High Performance Lithium-Ion Battery. <i>Materials</i> , 2016, 9, 75.	1.3	20
58	“Dew-of-Leaf”-structure multiple synergetic antimicrobial modality hybrid: A rapid and long lasting bactericidal material. <i>Chemical Engineering Journal</i> , 2021, 416, 129072.	6.6	20
59	Interfacial Engineering of Binder-Free Janus Separator with Ultra-Thin Multifunctional Layer for Simultaneous Enhancement of Both Metallic Li Anode and Sulfur Cathode. <i>Small</i> , 2022, 18, .	5.2	19
60	Recent advances of micro-nanofiber materials for rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2022, 51, 181-211.	9.5	19
61	Thermal and mechanical properties of nanofibers-based form-stable PCMs consisting of glycerol monostearate and polyethylene terephthalate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 101-111.	2.0	18
62	Novel freestanding N-doped carbon coated Fe ₃ O ₄ nanocomposites with 3D carbon fibers network derived from bacterial cellulose for supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2018, 810, 18-26.	1.9	18
63	Effects of ferric chloride on structure, surface morphology and combustion property of electrospun polyacrylonitrile composite nanofibers. <i>Fibers and Polymers</i> , 2011, 12, 145-150.	1.1	17
64	Fabrication of hydrophilic nanoporous PMMA/O-MMT composite microfibrrous membrane and its use in enzyme immobilization. <i>Journal of Porous Materials</i> , 2013, 20, 457-464.	1.3	15
65	Structural colors of fabric from Ag/TiO ₂ composite films prepared by magnetron sputtering deposition. <i>International Journal of Clothing Science and Technology</i> , 2017, 29, 427-435.	0.5	15
66	Electrochemical charge storage of flowerlike rutile TiO ₂ nanorods. <i>Chemical Physics Letters</i> , 2010, 490, 180-183.	1.2	14
67	Solvothermal preparation and lithium storage properties of Fe ₂ O ₃ /C hybrid microspheres. <i>Journal of Alloys and Compounds</i> , 2012, 513, 220-223.	2.8	14
68	Direct electrochemistry of laccase and a hydroquinone biosensing application employing ZnO loaded carbon nanofibers. <i>RSC Advances</i> , 2014, 4, 61831-61840.	1.7	14
69	Electrospun Nanofibers for Enzyme Immobilization. , 2019, , 765-781.		14
70	Surface characterization and properties of functionalized nonwoven. <i>Journal of Applied Polymer Science</i> , 2008, 107, 132-137.	1.3	13
71	Electrochemical properties of rutile TiO ₂ nanorods as anode material for lithium-ion batteries. <i>Ionics</i> , 2012, 18, 667-672.	1.2	13
72	Fabrication and characterization of polyamide6-room temperature ionic liquid (PA6-RTIL) composite nanofibers by electrospinning. <i>Fibers and Polymers</i> , 2013, 14, 1614-1619.	1.1	13

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73	Microporous Cyclodextrin Film with Funnel-type Channel Polymerized on Electrospun Cellulose Acetate Membrane as Separators for Strong Trapping Polysulfides and Boosting Charging in Lithium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	13
74	Multi-duties for one post: Biodegradable bacterial cellulose-based separator for lithium sulfur batteries. <i>Carbohydrate Polymers</i> , 2022, 285, 119201.	5.1	13
75	Dynamic studies of polypropylene nonwovens in environmental scanning electron microscope. <i>Polymer Testing</i> , 2007, 26, 2-8.	2.3	10
76	One-pot synthesis and electrochemical property of MnO/C hybrid microspheres. <i>Ionics</i> , 2013, 19, 595-600.	1.2	10
77	PAN Nanofibers Reinforced with MMT/GO Hybrid Nanofillers. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-10.	1.5	10
78	Dynamic wetting of plasma-treated polypropylene nonwovens. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2157-2160.	1.3	9
79	Hydrothermal Growth of Ag-Doped ZnO Nanoparticles on Electrospun Cellulose Nanofibrous Mats for Catechol Detection. <i>Electroanalysis</i> , 2015, 27, 1490-1497.	1.5	9
80	Application of magnetron sputtering to deposit a multicomponent separator with polysulfide chemisorption and electrode stabilization for high-performance lithium-sulfur batteries. <i>Surface and Coatings Technology</i> , 2021, 405, 126580.	2.2	8
81	Comparative Studies of Silver Nanocomposite Fibers. <i>Journal of Industrial Textiles</i> , 2009, 38, 309-316.	1.1	7
82	Atom efficient thermal and photocuring combined treatments for the synthesis of novel eco-friendly grid-like zein nanofibres. <i>RSC Advances</i> , 2014, 4, 61573-61579.	1.7	7
83	Surface nanostructure evolution of functionalized polypropylene fibers. <i>Journal of Applied Polymer Science</i> , 2007, 106, 1243-1247.	1.3	6
84	Surface characterization of aromatic thermotropic liquid crystalline fiber deposited by nanostructured silver. <i>Fibers and Polymers</i> , 2010, 11, 813-818.	1.1	6
85	High-performance polyacrylonitrile-based pre-oxidized fibers fabricated through strategy with chemical pretreatment, layer-by-layer assembly, and stabilization techniques. <i>High Performance Polymers</i> , 2021, 33, 105-114.	0.8	6
86	The morphology of Taylor cone influenced by different coaxial composite nozzle structures. <i>Fibers and Polymers</i> , 2016, 17, 624-629.	1.1	5
87	Preparation and Photocatalytic Activity of -Deposited Fabrics. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-5.	1.4	4
88	Synthesized OH-radical rich bacteria cellulosic pockets with photodynamic bacteria inactivation properties against <i>S. ureus</i> and <i>E. coli</i> . <i>Materials Science and Engineering C</i> , 2020, 116, 111230.	3.8	4
89	The Effect of Organic/Inorganic Hybridization on the Structures of Nanofibers. <i>Journal of Industrial Textiles</i> , 2010, 39, 293-304.	1.1	3
90	Structure and Morphological Evolvement of Electrospun Polyacrylonitrile/Organic-Modified Fe-Montmorillonite Composite Carbon Nanofibers. <i>International Journal of Polymer Analysis and Characterization</i> , 2011, 16, 24-35.	0.9	3

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91	Preparation and characterization of polyaniline/Fe ₃ O ₄ polyacrylonitrile composite nanofibers. International Journal of Materials Research, 2012, 103, 1390-1394.	0.1	3
92	Surface and Interface Analysis of Fibers Sputtered with Titanium Dioxide. Journal of Engineered Fibers and Fabrics, 2012, 7, 155892501200700.	0.5	3
93	Preparation and Characterization of porous Carbon/Nickel Nanofibers for Supercapacitor. Journal of Engineered Fibers and Fabrics, 2013, 8, 155892501300800.	0.5	2
94	Bioremediation of Dyes Using Ultrafine Membrane Prepared from the Waste Culture of Ganoderma lucidum with in-situ Immobilization of Laccase. BioResources, 2016, 11, .	0.5	2
95	Electromagnetic properties of hollow PAN/Fe ₃ O ₄ composite nanofibres via coaxial electrospinning. International Journal of Materials and Product Technology, 2013, 46, 95.	0.1	1
96	Fabrication of Switchable Superhydrophobic Nonwoven Fabrics via Cosputtering. Advanced Science Letters, 2012, 10, 599-601.	0.2	1
97	Preparation and Characterization of Porous TiO ₂ Fibers and Their Photocatalytic Activity. Journal of Engineered Fibers and Fabrics, 2012, 7, 155892501200700.	0.5	0
98	Sulfanilic acid inspired self-assembled fibrous materials. Colloid and Polymer Science, 2016, 294, 1483-1494.	1.0	0
99	Preparation and Characterization of Porous Carbon/Nickle Nanofibers by Electrospinning. Advanced Science Letters, 2012, 10, 672-674.	0.2	0