

Ke Liu

List of Publications by Year in descending order

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77
papers

3,097
citations

159585

30
h-index

168389

53
g-index

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all docs

77
docs citations

77
times ranked

4061
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface Chemistry Engineering for Stable Cycling of Reduced GO/SnO ₂ Nanocomposites for Lithium Ion Battery. <i>Nano Letters</i> , 2013, 13, 1711-1716.	9.1	278
2	Stretchable Conductive Polypyrrole/Polyurethane (PPy/PU) Strain Sensor with Netlike Microcracks for Human Breath Detection. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1313-1319.	8.0	223
3	Transparent, Mechanically Strong, Extremely Tough, Self-Healable, Recoverable, Healable Supramolecular Elastomers Facilely Fabricated via Dynamic Hard Domains Design for Multifunctional Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1907109.	14.9	208
4	A High-Throughput, Controllable, and Environmentally Benign Fabrication Process of Thermoplastic Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 407-414.	3.6	141
5	A nanofiber based artificial electronic skin with high pressure sensitivity and 3D conformability. <i>Nanoscale</i> , 2016, 8, 12105-12112.	5.6	141
6	Large-Area, Wearable, Self-Powered Pressure-Temperature Sensor Based on 3D Thermoelectric Spacer Fabric. <i>ACS Sensors</i> , 2020, 5, 2545-2554.	7.8	106
7	Wearable Fiber-Based Organic Electrochemical Transistors as a Platform for Highly Sensitive Dopamine Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13105-13113.	8.0	102
8	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.	8.0	91
9	Effect of physicochemical structure of natural fiber on transverse thermal conductivity of unidirectional abaca/bamboo fiber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1234-1241.	7.6	82
10	The woven fiber organic electrochemical transistors based on polypyrrole nanowires/reduced graphene oxide composites for glucose sensing. <i>Biosensors and Bioelectronics</i> , 2017, 95, 138-145.	10.1	81
11	Effect of lumen size on the effective transverse thermal conductivity of unidirectional natural fiber composites. <i>Composites Science and Technology</i> , 2012, 72, 633-639.	7.8	76
12	A facile route to the production of polymeric nanofibrous aerogels for environmentally sustainable applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3692-3704.	10.3	73
13	Hierarchically Three-Dimensional Nanofiber Based Textile with High Conductivity and Biocompatibility As a Microbial Fuel Cell Anode. <i>Environmental Science & Technology</i> , 2016, 50, 7889-7895.	10.0	64
14	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.	5.4	60
15	Fabrication of ultra-light nickel/graphene composite foam with 3D interpenetrating network for high-performance electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2020, 182, 107614.	12.0	60
16	Radical Graft Polymerization of an Allyl Monomer onto Hydrophilic Polymers and Their Antibacterial Nanofibrous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2838-2844.	8.0	52
17	Effect of chemical treatments on transverse thermal conductivity of unidirectional abaca fiber/epoxy composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 66, 227-236.	7.6	51
18	Flexible and lightweight MXene/silver nanowire/polyurethane composite foam films for highly efficient electromagnetic interference shielding and photothermal conversion. <i>Composites Science and Technology</i> , 2021, 215, 109023.	7.8	50

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19	Flexible, breathable, and highly environmental-stable Ni/PPy/PET conductive fabrics for efficient electromagnetic interference shielding and wearable textile antennas. <i>Composites Part B: Engineering</i> , 2021, 215, 108752.	12.0	49
20	Noncrystalline nickel phosphide decorated poly(vinyl alcohol-co-ethylene) nanofibrous membrane for catalytic hydrogenation of p-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2016, 196, 223-231.	20.2	48
21	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.	8.0	47
22	Facile Fabrication of Conductive Graphene/Polyurethane Foam Composite and Its Application on Flexible Piezo-Resistive Sensors. <i>Polymers</i> , 2019, 11, 1289.	4.5	44
23	Amine-functionalized PVA-co-PE nanofibrous membrane as affinity membrane with high adsorption capacity for bilirubin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 271-278.	5.0	42
24	Hydrophilic PVA-co-PE nanofiber membrane functionalized with iminodiacetic acid by solid-phase synthesis for heavy metal ions removal. <i>Reactive and Functional Polymers</i> , 2014, 82, 98-102.	4.1	41
25	The poly(vinyl alcohol-co-ethylene) nanofiber/silica coated composite membranes for oil/water and oil-in-water emulsion separation. <i>Composites Communications</i> , 2018, 7, 69-73.	6.3	41
26	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.	8.0	41
27	Fabrics Attached with Highly Efficient Aggregation-Induced Emission Photosensitizer: Toward Self-Antiviral Personal Protective Equipment. <i>ACS Nano</i> , 2021, 15, 13857-13870.	14.6	38
28	Highly Accurate Wearable Piezoresistive Sensors without Tension Disturbance Based on Weaved Conductive Yarn. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35638-35646.	8.0	33
29	High performance filtration nanofibrous membranes based on hydrophilic poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342	8.2	32
30	Flexible nanofibers-reinforced silk fibroin films plasticized by glycerol. <i>Composites Part B: Engineering</i> , 2018, 152, 305-310.	12.0	32
31	Ag nanoparticles decorated PVA-co-PE nanofiber-based membrane with antifouling surface for highly efficient inactivation and interception of bacteria. <i>Applied Surface Science</i> , 2020, 506, 144664.	6.1	32
32	Anisotropic thermal conductivity of unidirectional natural abaca fiber composites as a function of lumen and cell wall structure. <i>Composite Structures</i> , 2014, 108, 987-991.	5.8	30
33	Nanofibrous Aerogels with Vertically Aligned Microchannels for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42686-42695.	8.0	30
34	High performance HKUST-1@PVA-co-PE/PVA hybrid hydrogel with enhanced selective adsorption. <i>Composites Communications</i> , 2018, 10, 36-40.	6.3	29
35	Immobilization of Firefly Luciferase on PVA-co-PE Nanofibers Membrane as Biosensor for Bioluminescent Detection of ATP. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20046-20052.	8.0	27
36	Chemiluminescence biosensor for hydrogen peroxide determination by immobilizing horseradish peroxidase onto PVA-co-PE nanofiber membrane. <i>European Polymer Journal</i> , 2017, 91, 307-314.	5.4	26

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37	Recent advances in novel aerogels through the hybrid aggregation of inorganic nanomaterials and polymeric fibers for thermal insulation. <i>Aggregate</i> , 2021, 2, e30.	9.9	26
38	A simple colorimetric method for viable bacteria detection based on cell counting Kit-8. <i>Analytical Methods</i> , 2021, 13, 5211-5215.	2.7	26
39	Flexible supercapacitor with high energy density prepared by GO-induced porous coral-like polypyrrole (PPy)/PET non-woven fabrics. <i>Journal of Materials Science</i> , 2018, 53, 8409-8419.	3.7	25
40	In situ prepared nanosized Pt-Ag/PDA/PVA-co-PE nanofibrous membrane for highly-efficient catalytic reduction of p-nitrophenol. <i>Composites Communications</i> , 2018, 9, 11-16.	6.3	25
41	Breathable and Large Curved Area Perceptible Flexible Piezoresistive Sensors Fabricated with Conductive Nanofiber Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37764-37773.	8.0	25
42	Fiber organic electrochemical transistors based on multi-walled carbon nanotube and polypyrrole composites for noninvasive lactate sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7515-7524.	3.7	25
43	Handedness Inversion of Chiral 3-aminophenol Formaldehyde Resin Nanotubes Mediated by Metal Coordination. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7759-7769.	13.8	25
44	Large scale poly(vinyl alcohol-co-ethylene)/TiO ₂ hybrid nanofibrous filters with efficient fine particle filtration and repetitive-use performance. <i>RSC Advances</i> , 2015, 5, 87924-87931.	3.6	24
45	Concurrent filtration and inactivation of bacteria using poly(vinyl alcohol-co-ethylene) nanofibrous membrane facilely modified using chitosan and graphene oxide. <i>Environmental Science: Nano</i> , 2017, 4, 385-395.	4.3	21
46	Highly transparent and rollable PVA-co-PE nanofibers synergistically reinforced with epoxy film for flexible electronic devices. <i>Nanoscale</i> , 2017, 9, 19216-19226.	5.6	21
47	Highly Permeable Polyamide Nanofiltration Membrane Mediated by an Upscalable Wet-Laid EVOH Nanofibrous Scaffold. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23142-23152.	8.0	19
48	Fiber based organic electrochemical transistor integrated with molecularly imprinted membrane for uric acid detection. <i>Talanta</i> , 2022, 238, 123055.	5.5	17
49	PVA-co-PE Nanofibrous Filter Media with Tailored Three-Dimensional Structure for High Performance and Safe Aerosol Filtration via Suspension-Drying Procedure. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9269-9280.	3.7	16
50	A Readily Accessible Functional Nanofibrous Membrane for High Capacity Immobilization of Ag Nanoparticles and Ultrafast Catalysis Application. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801617.	3.7	15
51	The construction of rod-like polypyrrole network on hard magnetic porous textile anodes for microbial fuel cells with ultra-high output power density. <i>Journal of Power Sources</i> , 2019, 412, 514-519.	7.8	15
52	Woven fiber organic electrochemical transistors based on multiwalled carbon nanotube functionalized PEDOT nanowires for nondestructive detection of potassium ions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115657.	3.5	15
53	Highly efficient nanofibrous sterile membrane with anti-BSA/RNA-fouling surface via plasma-assisted carboxylation process. <i>Journal of Membrane Science</i> , 2020, 601, 117935.	8.2	14
54	Wide-range sensitive all-textile piezoresistive sensors assembled with biomimetic core-shell yarn via facile embroidery integration. <i>Chemical Engineering Journal</i> , 2022, 435, 135003.	12.7	14

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55	Modified thermal resistance networks model for transverse thermal conductivity of unidirectional fiber composite. <i>Composites Communications</i> , 2017, 6, 52-58.	6.3	12
56	Fabrication of ZrC/PVA-co-PE NF composite membranes with photo-thermal conversion for solar desalination. <i>Composites Communications</i> , 2019, 13, 151-155.	6.3	12
57	Ag nanoparticles decorated PVA-co-PE nanofibrous microfiltration membrane with antifouling surface for efficient sterilization. <i>Composites Communications</i> , 2020, 21, 100379.	6.3	11
58	Gelatinase-responsive photonic crystal membrane for pathogenic bacteria detection and application in vitro health diagnosis. <i>Biosensors and Bioelectronics</i> , 2022, 202, 114013.	10.1	10
59	A Hierarchical Structure of Flower-Like Zinc Oxide and Poly(Vinyl Alcohol-co-Ethylene) Nanofiber Hybrid Membranes for High-Performance Air Filters. <i>ACS Omega</i> , 2022, 7, 3030-3036.	3.5	9
60	Layer-by-layer assembly of composite conductive fiber-based organic electrochemical transistor for highly sensitive detection of sialic acid. <i>Electrochimica Acta</i> , 2022, 425, 140716.	5.2	9
61	Affinity functionalization of PVA-co-PE nanofibrous membrane with Ni(ii)-chelated ligand for bovine hemoglobin adsorption. <i>New Journal of Chemistry</i> , 2018, 42, 3990-3994.	2.8	8
62	Electrochemical synthesis for α -arylation of ketones using enol acetates and aryl diazonium salts. <i>Organic Chemistry Frontiers</i> , 2022, 9, 2215-2219.	4.5	7
63	Microwave synthesis of graphene oxide decorated with silver nanoparticles for slow-release antibacterial hydrogel. <i>Materials Today Communications</i> , 2022, 31, 103663.	1.9	7
64	Dynamic layer-by-layer films on nanofiber membrane: a platform for ultra-sensitive bacterial concentration detection. <i>Chemical Communications</i> , 2018, 54, 7920-7923.	4.1	6
65	Ultra-Sensitive Piezo-Resistive Sensors Constructed with Reduced Graphene Oxide/Polyolefin Elastomer (RGO/POE) Nanofiber Aerogels. <i>Polymers</i> , 2019, 11, 1883.	4.5	6
66	Fabrication of silica/PVA-co-PE nanofiber membrane for oil/water separation. <i>Fashion and Textiles</i> , 2021, 8, .	2.4	6
67	Electrodeposition of poly (vinyl alcohol-co-ethylene) nanofiber reinforced chitosan nanocomposite film for electrochemically programmed release of protein. <i>Polymer</i> , 2020, 193, 122338.	3.8	5
68	Design and synthesis of mechanochromic poly(ether-ester-urethane) elastomer with high toughness and resilience mediated by crystalline domains. <i>Polymer Chemistry</i> , 2022, 13, 2155-2164.	3.9	5
69	Surface Functional Nanofiber Membrane for Ultrasensitive and Naked-Eye Visualization of Bacterial Concentration. <i>ACS Applied Bio Materials</i> , 2020, 3, 6466-6477.	4.6	3
70	Self-Reinforced Polymer Nanofiber Aerogels for Multifunctional Applications. <i>Macromolecular Materials and Engineering</i> , 0, , 2100971.	3.6	3
71	Polyamide thin film nanocomposite membrane with internal void structure mediated by silica and SDS for highly permeable reverse-osmosis application. <i>Composites Communications</i> , 2022, , 101092.	6.3	3
72	Caterpillar-like Ag-ZnO-C hollow nanocomposites for efficient solar photocatalytic degradation and disinfection. <i>Environmental Science: Nano</i> , 2022, 9, 975-987.	4.3	2

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73	High-Performance PA Nanofiltration Membrane with Coral-Reef-Like Morphology atop Polydopamine Decorated EVOH Nanofiber Scaffold. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	2.2	2
74	Facile fabrication of poly(glycidyl methacrylate)-b-polystyrene functional fibers under a shear field and immobilization of hemoglobin. <i>New Journal of Chemistry</i> , 2018, 42, 8537-8543.	2.8	1
75	An EVOH nanofibrous sterile membrane with a robust and antifouling surface for high-performance sterile filtration <i>via</i> glutaraldehyde crosslinking and a plasma-assisted process. <i>Soft Matter</i> , 2022, 18, 4991-5000.	2.7	1
76	In-situ preparation of MOFs/SiC/PVA-Co-PE nanofiber membranes for efficient photocatalytic reduction of CO ₂ . <i>E3S Web of Conferences</i> , 2021, 252, 02056.	0.5	0
77	In-situ preparation of MIL-88A(Fe)/MIL-100(Fe)/PVA-Co-PE nanofiber membranes for efficient photocatalytic reduction of CO ₂ . <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 760, 012017.	0.3	0