

Jianyong Yu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,796

citations

31

h-index

61

g-index

74

ext. papers

5,003

ext. citations

10.2

avg, IF

5.99

L-index

#	Paper	IF	Citations
62	Ultralight nanofibre-assembled cellular aerogels with superelasticity and multifunctionality. <i>Nature Communications</i> , 2014 , 5, 5802	17.4	675
61	Superelastic and superhydrophobic nanofiber-assembled cellular aerogels for effective separation of oil/water emulsions. <i>ACS Nano</i> , 2015 , 9, 3791-9	16.7	522
60	Ultralight and fire-resistant ceramic nanofibrous aerogels with temperature-invariant superelasticity. <i>Science Advances</i> , 2018 , 4, eaas8925	14.3	243
59	Porous materials for sound absorption. <i>Composites Communications</i> , 2018 , 10, 25-35	6.7	215
58	Ultrahigh-Water-Content, Superelastic, and Shape-Memory Nanofiber-Assembled Hydrogels Exhibiting Pressure-Responsive Conductivity. <i>Advanced Materials</i> , 2017 , 29, 1700339	24	162
57	Continuous, Spontaneous, and Directional Water Transport in the Trilayered Fibrous Membranes for Functional Moisture Wicking Textiles. <i>Small</i> , 2018 , 14, e1801527	11	121
56	Silica nanofibrous membranes with robust flexibility and thermal stability for high-efficiency fine particulate filtration. <i>RSC Advances</i> , 2012 , 2, 12216	3.7	100
55	Optimized colorimetric sensor strip for mercury(II) assay using hierarchical nanostructured conjugated polymers. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 645-652	13	88
54	Stable Confinement of Black Phosphorus Quantum Dots on Black Tin Oxide Nanotubes: A Robust, Double-Active Electrocatalyst toward Efficient Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16439-16444	16.4	81
53	Carbon-Nanoplated CoS@TiO Nanofibrous Membrane: An Interface-Engineered Heterojunction for High-Efficiency Electrocatalytic Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18903-18907	16.4	80
52	Environmentally Friendly and Breathable Fluorinated Polyurethane Fibrous Membranes Exhibiting Robust Waterproof Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29302-29310	9.5	80
51	Biomimetic Fibrous Murray Membranes with Ultrafast Water Transport and Evaporation for Smart Moisture-Wicking Fabrics. <i>ACS Nano</i> , 2019 , 13, 1060-1070	16.7	77
50	Hydrophobic Fibrous Membranes with Tunable Porous Structure for Equilibrium of Breathable and Waterproof Performance. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600516	4.6	71
49	Soft Zr-doped TiO Nanofibrous Membranes with Enhanced Photocatalytic Activity for Water Purification. <i>Scientific Reports</i> , 2017 , 7, 1636	4.9	70
48	3D Superelastic Scaffolds Constructed from Flexible Inorganic Nanofibers with Self-Fitting Capability and Tailorable Gradient for Bone Regeneration. <i>Advanced Functional Materials</i> , 2019 , 29, 1901407	15.6	68
47	Amphiphobic fluorinated polyurethane composite microfibrillar membranes with robust waterproof and breathable performances. <i>RSC Advances</i> , 2013 , 3, 2248-2255	3.7	68
46	Hierarchical Porous Structured SiO/SnO Nanofibrous Membrane with Superb Flexibility for Molecular Filtration. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18966-18976	9.5	67

45	Hierarchical Cellular Structured Ceramic Nanofibrous Aerogels with Temperature-Invariant Superelasticity for Thermal Insulation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29056-29064	9.5	65
44	Spider-Web-Inspired PM Filters Based on Self-Sustained Electrostatic Nanostructured Networks. <i>Advanced Materials</i> , 2020 , 32, e2002361	24	64
43	Super hygroscopic nanofibrous membrane-based moisture pump for solar-driven indoor dehumidification. <i>Nature Communications</i> , 2020 , 11, 3302	17.4	53
42	Human Skin-Like, Robust Waterproof, and Highly Breathable Fibrous Membranes with Short Perfluorobutyl Chains for Eco-Friendly Protective Textiles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30887-30894	9.5	44
41	Thermoconductive, Moisture-Permeable, and Superhydrophobic Nanofibrous Membranes with Interpenetrated Boron Nitride Network for Personal Cooling Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32078-32089	9.5	41
40	Conductive and Elastic TiO Nanofibrous Aerogels: A New Concept toward Self-Supported Electrocatalysts with Superior Activity and Durability. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23252-23260	16.4	38
39	Ultrastrong, Superelastic, and Lamellar Multiarch Structured ZrO-AlO Nanofibrous Aerogels with High-Temperature Resistance over 1300 °C. <i>ACS Nano</i> , 2020 , 14, 15616-15625	16.7	37
38	Multilevel porous structured polyvinylidene fluoride/polyurethane fibrous membranes for ultrahigh waterproof and breathable application. <i>Composites Communications</i> , 2017 , 6, 63-67	6.7	36
37	Ultralight and Resilient Electrospun Fiber Sponge with a Lamellar Corrugated Microstructure for Effective Low-Frequency Sound Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35333-35342	9.5	35
36	Ultralight, superelastic and bendable lashing-structured nanofibrous aerogels for effective sound absorption. <i>Nanoscale</i> , 2019 , 11, 2289-2298	7.7	35
35	Tailoring Differential Moisture Transfer Performance of Nonwoven/Polyacrylonitrile-SiO ₂ Nanofiber Composite Membranes. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700062	4.6	35
34	Smart, Elastic, and Nanofiber-Based 3D Scaffolds with Self-Deploying Capability for Osteoporotic Bone Regeneration. <i>Nano Letters</i> , 2019 , 19, 9112-9120	11.5	34
33	In-situ electrospinning of thymol-loaded polyurethane fibrous membranes for waterproof, breathable, and antibacterial wound dressing application. <i>Journal of Colloid and Interface Science</i> , 2021 , 592, 310-318	9.3	33
32	Large-scale fabrication of highly aligned poly(m-phenylene isophthalamide) nanofibers with robust mechanical strength. <i>RSC Advances</i> , 2014 , 4, 45760-45767	3.7	32
31	Multi-functional flexible 2D carbon nanostructured networks. <i>Nature Communications</i> , 2020 , 11, 5134	17.4	29
30	A Biomimetic Transpiration Textile for Highly Efficient Personal Drying and Cooling. <i>Advanced Functional Materials</i> , 2021 , 31, 2008705	15.6	28
29	Environmentally benign modification of breathable nanofibrous membranes exhibiting superior waterproof and photocatalytic self-cleaning properties. <i>Nanoscale Horizons</i> , 2019 , 4, 867-873	10.8	26
28	Assembly of silica aerogels within silica nanofibers: towards a super-insulating flexible hybrid aerogel membrane. <i>RSC Advances</i> , 2015 , 5, 91813-91820	3.7	25

27	N-Halamine Functionalized Electrospun Poly(Vinyl Alcohol-co-Ethylene) Nanofibrous Membranes with Rechargeable Antibacterial Activity for Bioprotective Applications. <i>Advanced Fiber Materials</i> , 2019 , 1, 126-136	10.9	25
26	Tailoring waterproof and breathable properties of environmentally friendly electrospun fibrous membranes by optimizing porous structure and surface wettability. <i>Composites Communications</i> , 2019 , 15, 40-45	6.7	23
25	Highly flexible, mesoporous structured, and metallic Cu-doped C/SiO nanofibrous membranes for efficient catalytic oxidative elimination of antibiotic pollutants. <i>Nanoscale</i> , 2019 , 11, 14844-14856	7.7	23
24	One-step fabrication of multi-scaled, inter-connected hierarchical fibrous membranes for directional moisture transport. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 207-216	9.3	21
23	Environmentally friendly waterborne polyurethane nanofibrous membranes by emulsion electrospinning for waterproof and breathable textiles. <i>Chemical Engineering Journal</i> , 2022 , 427, 130925	14.7	21
22	Integration of Janus Wettability and Heat Conduction in Hierarchically Designed Textiles for All-Day Personal Radiative Cooling.. <i>Nano Letters</i> , 2022 ,	11.5	16
21	Stretchable PDMS Embedded Fibrous Membranes Based on an Ethanol Solvent System for Waterproof and Breathable Applications.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5949-5956	4.1	15
20	Waterborne electrospinning of fluorine-free stretchable nanofiber membranes with waterproof and breathable capabilities for protective textiles. <i>Journal of Colloid and Interface Science</i> , 2021 , 602, 105-114	9.3	15
19	Stretchable and Superelastic Fibrous Sponges Tailored by "Stiff-Soft" Bicomponent Electrospun Fibers for Warmth Retention. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27562-27571	9.5	13
18	Nanofibrous hydrogels embedded with phase-change materials: Temperature-responsive dressings for accelerating skin wound healing. <i>Composites Communications</i> , 2021 , 25, 100752	6.7	13
17	Textile waste derived cellulose based composite aerogel for efficient solar steam generation. <i>Composites Communications</i> , 2021 , 28, 100936	6.7	10
16	Interlocked Dual-Network and Superelastic Electrospun Fibrous Sponges for Efficient Low-Frequency Noise Absorption. <i>Small Structures</i> , 2020 , 1, 2000004	8.7	9
15	Tailoring Broad-Band-Absorbed Thermoplasmonic 1D Nanochains for Smart Windows with Adaptive Solar Modulation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5634-5644	9.5	9
14	Superelastic, lightweight, and flame-retardant 3D fibrous sponge fabricated by one-step electrospinning for heat retention. <i>Composites Communications</i> , 2021 , 25, 100681	6.7	8
13	Flexible ceramic nanofibrous sponges with hierarchically entangled graphene networks enable noise absorption. <i>Nature Communications</i> , 2021 , 12, 6599	17.4	7
12	Ultrathin Zirconium Hydroxide Nanosheet-Assembled Nanofibrous Membranes for Rapid Degradation of Chemical Warfare Agents. <i>Small</i> , 2021 , 17, e2101639	11	7
11	Bioinspired sequentially crosslinked nanofibrous hydrogels with robust adhesive and stretchable capability for joint wound dressing. <i>Composites Communications</i> , 2021 , 26, 100785	6.7	7
10	Ultralight and superelastic fibrous sponges with effective heat preservation and photo-thermal conversion for personal cold protection. <i>Composites Communications</i> , 2021 , 25, 100766	6.7	6

9	Lizard-Skin-Inspired Nanofibrous Capillary Network Combined with a Slippery Surface for Efficient Fog Collection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36587-36594	9.5	6
8	Highly Active and Selective Electroreduction of N by the Catalysis of Ga Single Atoms Stabilized on Amorphous TiO Nanofibers.. <i>ACS Nano</i> , 2022 ,	16.7	6
7	Ultralight and Mechanically Robust Fibrous Sponges Tailored by Semi-Interpenetrating Polymer Networks for Warmth Retention. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18165-18174	9.5	5
6	All-Ceramic and Elastic Aerogels with Nanofibrous-Granular Binary Synergistic Structure for Thermal Superinsulation.. <i>ACS Nano</i> , 2022 ,	16.7	5
5	Fire-Resistant and Hierarchically Structured Elastic Ceramic Nanofibrous Aerogels for Efficient Low-Frequency Noise Reduction.. <i>Nano Letters</i> , 2022 ,	11.5	4
4	Freestanding Metal Organic Framework-Based Multifunctional Membranes Fabricated via Pseudomorphic Replication toward Liquid- and Gas-Hazards Abatement. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101178	4.6	1
3	Nanoflake-Engineered Zirconic Fibrous Aerogels with Parallel-Arrayed Conduits for Fast Nerve Agent Degradation. <i>Nano Letters</i> , 2021 , 21, 8839-8847	11.5	1
2	Particle morphology, structure and properties of nascent ultra-high molecular weight polyethylene. <i>Royal Society Open Science</i> , 2020 , 7, 200663	3.3	1
1	Superelastic and Photothermal RGO/Zr-Doped TiO ₂ Nanofibrous Aerogels Enable the Rapid Decomposition of Chemical Warfare Agents. <i>Nano Letters</i> ,	11.5	0