Xia Yin

List of Publications by Year in Descending Order

45 papers	1,689 citations	24 h-index	41 g-index
48 ext. papers	2,185 ext. citations	8.6 avg, IF	5.26 L-index

#	Paper	IF	Citations
45	Fire-Resistant and Hierarchically Structured Elastic Ceramic Nanofibrous Aerogels for Efficient Low-Frequency Noise Reduction.. *Nano Letters*, **2022**,	11.5	4
44	Flexible ceramic nanofibrous sponges with hierarchically entangled graphene networks enable noise absorption. *Nature Communications*, **2021**, 12, 6599	17.4	7
43	Copper hydroxide nanosheets-assembled nanofibrous membranes for anti-biofouling water disinfection.. *Journal of Colloid and Interface Science*, **2021**, 611, 1-8	9.3	0
42	Antibacterial and antiviral N-halamine nanofibrous membranes with nanonet structure for bioprotective applications. *Composites Communications*, **2021**, 24, 100668	6.7	14
41	In-situ electrospinning of thymol-loaded polyurethane fibrous membranes for waterproof, breathable, and antibacterial wound dressing application. *Journal of Colloid and Interface Science*, **2021**, 592, 310-318	9.3	33
40	Green and antimicrobial 5-bromosalicylic acid/polyvinyl butyral nanofibrous membranes enable interception-sterilization-integrated bioprotection. *Composites Communications*, **2021**, 25, 100720	6.7	6
39	Superelastic, lightweight, and flame-retardant 3D fibrous sponge fabricated by one-step electrospinning for heat retention. *Composites Communications*, **2021**, 25, 100681	6.7	8
38	Amide-halamine/silica composite nanofibrous membranes with rechargeable chlorination function for mercaptan degradation. *Composites Communications*, **2021**, 25, 100729	6.7	2
37	Stretchable, tough and elastic nanofibrous hydrogels with dermis-mimicking network structure. *Journal of Colloid and Interface Science*, **2021**, 582, 387-395	9.3	6
36	Gradient structured micro/nanofibrous sponges with superior compressibility and stretchability for broadband sound absorption. *Journal of Colloid and Interface Science*, **2021**, 593, 59-66	9.3	4
35	Hierarchically maze-like structured nanofiber aerogels for effective low-frequency sound absorption. *Journal of Colloid and Interface Science*, **2021**, 597, 21-28	9.3	11
34	Antibacterial and antiviral nanofibrous membranes with renewable oxidative function for high-efficiency and super-throughput water disinfection. *Composites Communications*, **2021**, 27, 100875	6.7	2
33	All-polymer hybrid electret fibers for high-efficiency and low-resistance filter media. *Chemical Engineering Journal*, **2020**, 398, 125626	14.7	24
32	Ultrafine, self-crimp, and electret nano-wool for low-resistance and high-efficiency protective filter media against PM. *Journal of Colloid and Interface Science*, **2020**, 578, 565-573	9.3	16
31	Ultrathin Cellulose Voronoi-Nanonet Membranes Enable High-Flux and Energy-Saving Water Purification. *ACS Applied Materials & Interfaces*, **2020**, 12, 31852-31862	9.5	17
30	Semi-Interpenetrating Polymer Network Biomimetic Structure Enables Superelastic and Thermostable Nanofibrous Aerogels for Cascade Filtration of PM2.5. *Advanced Functional Materials*, **2020**, 30, 1910426	15.6	34
29	Highly Flexible, Efficient, and Sandwich-Structured Infrared Radiation Heating Fabric. *ACS Applied Materials & Interfaces*, **2020**, 12, 11016-11025	9.5	27

28	Electrospun Fibers for Filtration **2020**, 175-206		4
27	High-efficiency and super-breathable air filters based on biomimetic ultrathin nanofiber networks. *Composites Communications*, **2020**, 22, 100493	6.7	24
26	Interlocked Dual-Network and Superelastic Electrospun Fibrous Sponges for Efficient Low-Frequency Noise Absorption. *Small Structures*, **2020**, 1, 2000004	8.7	9
25	Ultralight and Resilient Electrospun Fiber Sponge with a Lamellar Corrugated Microstructure for Effective Low-Frequency Sound Absorption. *ACS Applied Materials & Interfaces*, **2019**, 11, 35333-35342	9.5	35
24	Corncoblike, Superhydrophobic, and Phase-Changeable Nanofibers for Intelligent Thermoregulating and Water-Repellent Fabrics. *ACS Applied Materials & Interfaces*, **2019**, 11, 39324-39333	9.5	19
23	Electrospun nanofibers for high-performance air filtration. *Composites Communications*, **2019**, 15, 6-19	6.7	74
22	Electrospun polyvinylidene fluoride/SiO2 nanofibrous membranes with enhanced electret property for efficient air filtration. *Composites Communications*, **2019**, 13, 57-62	6.7	47
21	Rechargeable polyamide-based N-halamine nanofibrous membranes for renewable, high-efficiency, and antibacterial respirators. *Nanoscale Advances*, **2019**, 1, 1948-1956	5.1	15
20	Novel Inorganic-Based N-Halamine Nanofibrous Membranes As Highly Effective Antibacterial Agent for Water Disinfection. *ACS Applied Materials & Interfaces*, **2018**, 10, 44209-44215	9.5	42
19	Electrospun regenerated cellulose nanofiber based metal-chelating affinity membranes for protein adsorption. *Composites Communications*, **2018**, 10, 168-174	6.7	9
18	Polybenzoxazine-Functionalized Melamine Sponges with Enhanced Selective Capillarity for Efficient Oil Spill Cleanup. *ACS Applied Materials & Interfaces*, **2018**, 10, 40274-40285	9.5	67
17	Tailoring Mechanically Robust Poly(m-phenylene isophthalamide) Nanofiber/nets for Ultrathin High-Efficiency Air Filter. *Scientific Reports*, **2017**, 7, 40550	4.9	76
16	A Controlled Design of Ripple-Like Polyamide-6 Nanofiber/Nets Membrane for High-Efficiency Air Filter. *Small*, **2017**, 13, 1603151	11	86
15	Cleanable Air Filter Transferring Moisture and Effectively Capturing PM. *Small*, **2017**, 13, 1603306	11	82
14	Self-standing Ag 2 O@YSZ-TiO 2 p-n nanoheterojunction composite nanofibrous membranes with superior photocatalytic activity. *Composites Communications*, **2017**, 5, 13-18	6.7	19
13	Low-Resistance Dual-Purpose Air Filter Releasing Negative Ions and Effectively Capturing PM. *ACS Applied Materials & Interfaces*, **2017**, 9, 12054-12063	9.5	96
12	Multilevel porous structured polyvinylidene fluoride/polyurethane fibrous membranes for ultrahigh waterproof and breathable application. *Composites Communications*, **2017**, 6, 63-67	6.7	36
11	Free-Standing Polyurethane Nanofiber/Nets Air Filters for Effective PM Capture. *Small*, **2017**, 13, 1702139	11	80

10	Moisture and oily molecules stable nanofibrous electret membranes for effectively capturing PM 2.5. *Composites Communications*, **2017**, 6, 34-40	6.7	29
9	Stable low resistance air filter under high humidity endowed by self-emission far-infrared for effective PM2.5 capture. *Composites Communications*, **2017**, 6, 29-33	6.7	17
8	A versatile method for fabricating ion-exchange hydrogel nanofibrous membranes with superb biomolecule adsorption and separation properties. *Journal of Colloid and Interface Science*, **2017**, 506, 442-451	9.3	23
7	Functional modification of breathable polyacrylonitrile/polyurethane/TiO nanofibrous membranes with robust ultraviolet resistant and waterproof performance. *Journal of Colloid and Interface Science*, **2017**, 508, 508-516	9.3	65
6	Polyvinyl Butyral Modified Polyvinylidene Fluoride Breathable/Waterproof Nanofibrous Membranes with Enhanced Mechanical Performance. *Macromolecular Materials and Engineering*, **2017**, 302,	3.9	27
5	Electret Polyvinylidene Fluoride Nanofibers Hybridized by Polytetrafluoroethylene Nanoparticles for High-Efficiency Air Filtration. *ACS Applied Materials & Interfaces*, **2016**, 8, 23985-94	9.5	167
4	Slip-Effect Functional Air Filter for Efficient Purification of PM. *Scientific Reports*, **2016**, 6, 35472	4.9	123
3	Hydrophobic polyvinylidene fluoride fibrous membranes with simultaneously water/windproof and breathable performance. *RSC Advances*, **2016**, 6, 87820-87827	3.7	43
2	Highly Integrated Polysulfone/Polyacrylonitrile/Polyamide-6 Air Filter for Multilevel Physical Sieving Airborne Particles. *ACS Applied Materials & Interfaces*, **2016**, 8, 29062-29072	9.5	110
1	Colorimetric strips for visual lead ion recognition utilizing polydiacetylene embedded nanofibers. *Journal of Materials Chemistry A*, **2014**, 2, 18304-18312	13	46