

# Qiongzhen Liu

## List of Publications by Year in descending order

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65  
papers

2,277  
citations

186265

28  
h-index

233421

45  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dependence of the crystal structure of the Nd-rich phase on oxygen content in an Nd-Fe-B sintered magnet. <i>Scripta Materialia</i> , 2008, 59, 179-182.	5.2	148
2	A nanofiber based artificial electronic skin with high pressure sensitivity and 3D conformability. <i>Nanoscale</i> , 2016, 8, 12105-12112.	5.6	141
3	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
4	Wearable Fiber-Based Organic Electrochemical Transistors as a Platform for Highly Sensitive Dopamine Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13105-13113.	8.0	102
5	Continuously Producing Ultrasensitive Wearable Strain Sensor Assembled with Three-Dimensional Interpenetrating Ag Nanowires/Polyolefin Elastomer Nanofibrous Composite Yarn. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42058-42066.	8.0	91
6	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
7	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
8	A novel hierarchically structured and highly hydrophilic poly(vinylidene fluoride)/poly(ethylene oxide) separator. <i>Journal of Power Sources</i> , 2014, 266, 29-35.	7.8	67
9	Hierarchically Three-Dimensional Nanofiber Based Textile with High Conductivity and Biocompatibility As a Microbial Fuel Cell Anode. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7889-7895.	10.0	64
10	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
11	Natural alginate fiber-based actuator driven by water or moisture for energy harvesting and smart controller applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22599-22608.	10.3	58
12	Biomimetic Copper-Based Inorganic-Protein Nanoflower Assembly Constructed on the Nanoscale Fibrous Membrane with Enhanced Stability and Durability. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17348-17356.	3.1	55
13	Effect of DyF <sub>3</sub> additions on the coercivity and grain boundary structure in sintered Nd-Fe-B magnets. <i>Scripta Materialia</i> , 2011, 64, 1137-1140.	5.2	53
14	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
15	High performance hybrid Al <sub>2</sub> O <sub>3</sub> /poly(vinyl alcohol-co-ethylene) nanofibrous membrane for lithium-ion battery separator. <i>Electrochimica Acta</i> , 2015, 176, 949-955.	5.2	48
16	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
17	Ultrasensitive Wearable Pressure Sensors Assembled by Surface-Patterned Polyolefin Elastomer Nanofiber Membrane Interpenetrated with Silver Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42706-42714.	8.0	47
18	A study of Yb <sub>0.2</sub> Co <sub>4</sub> Sb <sub>12</sub> -AgSbTe <sub>2</sub> nanocomposites: simultaneous enhancement of all three thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 73-79.	10.3	45

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19	Facile synthesis of three-dimensional (3D) interconnecting polypyrrole (PPy) nanowires/nanofibrous textile composite electrode for high performance supercapacitors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 101, 30-40.	7.6	45
20	In-situ polymerization of PPy/cellulose composite sponge with high elasticity and conductivity for the application of pressure sensor. <i>Composites Communications</i> , 2017, 6, 68-72.	6.3	44
21	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
22	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
23	Strategy of Constructing Light-Weight and Highly Compressible Graphene-Based Aerogels with an Ordered Unique Configuration for Wearable Piezoresistive Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19350-19362.	8.0	41
24	A highly stretchable, breathable and thermoregulatory electronic skin based on the polyolefin elastomer nanofiber membrane. <i>Applied Surface Science</i> , 2019, 486, 249-256.	6.1	39
25	Ion sensors based on novel fiber organic electrochemical transistors for lead ion detection. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5779-5787.	3.7	38
26	An investigation of the microstructure in the grain boundary region of Nd-Fe-B sintered magnet during post-sintering annealing. <i>Scripta Materialia</i> , 2013, 68, 687-690.	5.2	34
27	CdS quantum dots sensitized TiO <sub>2</sub> nanorod-array-film photoelectrode on FTO substrate by electrochemical atomic layer epitaxy method. <i>Electrochimica Acta</i> , 2012, 83, 321-326.	5.2	32
28	Polypyrrole/poly(vinyl alcohol-co-ethylene) nanofiber composites on polyethylene terephthalate substrate as flexible electric heating elements. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 81, 234-242.	7.6	31
29	Immobilization of Firefly Luciferase on PVA-co-PE Nanofibers Membrane as Biosensor for Bioluminescent Detection of ATP. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20046-20052.	8.0	27
30	High-Performance Natural Melanin/Poly(vinyl Alcohol-co-ethylene) Nanofibers/PA6 Fiber for Twisted and Coiled Fiber-Based Actuator. <i>Advanced Fiber Materials</i> , 2020, 2, 64-73.	16.1	27
31	Hydrogel degradation triggered by pH for the smart release of antibiotics to combat bacterial infection. <i>New Journal of Chemistry</i> , 2017, 41, 432-436.	2.8	26
32	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
33	Flexible supercapacitor with high energy density prepared by CO-induced porous coral-like polypyrrole (PPy)/PET non-woven fabrics. <i>Journal of Materials Science</i> , 2018, 53, 8409-8419.	3.7	25
34	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
35	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
36	Large scale poly(vinyl alcohol-co-ethylene)/TiO <sub>2</sub> hybrid nanofibrous filters with efficient fine particle filtration and repetitive-use performance. <i>RSC Advances</i> , 2015, 5, 87924-87931.	3.6	24

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37	Synthesis and thermoelectric properties of $\text{In}_{0.2+x}\text{Co}_4\text{Sb}_{12+x}$ composite. <i>Journal of Alloys and Compounds</i> , 2012, 521, 141-145.	5.5	23
38	Preparation of $\text{Er}_2\text{O}_3$ coating on a low activation martensitic steel substrate via the route of sol-gel. <i>Surface and Coatings Technology</i> , 2011, 205, 5497-5501.	4.8	22
39	Increased coercivity in sintered $\text{Nd-Fe-B}$ magnets with $\text{NdF}_3$ additions and the related grain boundary phase. <i>Scripta Materialia</i> , 2009, 61, 1048-1051.	5.2	21
40	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
41	One pot synthesis and capacitive sodium storage properties of rGO confined $\text{CoS}_2$ anode materials. <i>Journal of Alloys and Compounds</i> , 2020, 813, 151598.	5.5	20
42	The construction of sea urchin spines-like polypyrrole arrays on cotton-based fabric electrode via a facile electropolymerization for high performance flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2020, 354, 136746.	5.2	19
43	PVA-co-PE Nanofibrous Filter Media with Tailored Three-Dimensional Structure for High Performance and Safe Aerosol Filtration via Suspension-Drying Procedure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9269-9280.	3.7	16
44	Dysprosium Nitride-Modified Sintered $\text{Nd-Fe-B}$ Magnets with Increased Coercivity and Resistivity. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 093001.	1.5	15
45	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
46	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
47	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
48	Microstructure and corrosion resistance of sintered $\text{NdFeB}$ magnet modified by intergranular additions of $\text{MgO}$ and $\text{ZnO}$ . <i>Journal of Rare Earths</i> , 2008, 26, 268-273.	4.8	14
49	Chiral carbon nanotubes decorated $\text{MoS}_2$ nanosheets as stable anode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161354.	5.5	14
50	Highly hydrophilic and anti-fouling cellulose thin film composite membrane based on the hierarchical poly(vinyl alcohol-co-ethylene) nanofiber substrate. <i>Cellulose</i> , 2015, 22, 2717-2727.	4.9	13
51	Three-dimensional non-woven poly(vinyl alcohol-co-ethylene) nanofiber based polyaniline flexible electrode for high performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2017, 715, 137-145.	5.5	12
52	A specially structured conductive nickel-deposited poly(ethylene terephthalate) nonwoven membrane intertwined with microbial pili-like poly(vinyl alcohol-co-ethylene) nanofibers and its application as an alcohol sensor. <i>RSC Advances</i> , 2014, 4, 40788-40793.	3.6	10
53	Hierarchical Polyamide 6 (PA6) Nanofibrous Membrane with Desired Thickness as Separator for High-Performance Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1526-A1533.	2.9	10
54	Ethylenediamine-assisted synthesis of micro-sized cobalt sulfide as advanced anode materials for sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 735, 765-772.	5.5	10

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55	Nanofiber-based transparent film with controllable optical transparency adjustment function for versatile bionic applications. <i>Nano Research</i> , 2022, 15, 564-572.	10.4	10
56	Polypyrrole modified hierarchical porous CoS <sub>2</sub> @RGO aerogel electrode for ultrafast sodium storage. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 81-91.	2.5	9
57	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
58	A novel, stretchable, silver-coated polyolefin elastomer nanofiber membrane for strain sensor applications. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47928.	2.6	8
59	Hydrothermal growth of double-layer TiO <sub>2</sub> nanostructure film for quantum dot sensitized solar cells. <i>Thin Solid Films</i> , 2012, 520, 2745-2749.	1.8	7
60	Zwitterionic polymer-functionalized poly(vinyl alcohol-co-ethylene) nanofiber membrane for resistance to the adsorption of bacteria and protein. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	7
61	A novel PU/PVA-co-PE composite nanofiber membrane for water filtration. <i>Journal of Industrial Textiles</i> , 2019, 49, 431-446.	2.4	5
62	Nanosized nickel decorated sisal fibers with tailored aggregation structures for catalysis reduction of toxic aromatic compounds. <i>Industrial Crops and Products</i> , 2018, 119, 226-236.	5.2	4
63	Reinforcement of Polyethylene Terephthalate via Addition of Carbon-Based Materials. , 2015, , 41-64.		2
64	Antibacterial and rechargeable surface functional nanofiber membrane for healthcare textile application. <i>New Journal of Chemistry</i> , 2018, 42, 2824-2829.	2.8	2
65	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