

# Quanling Yang

## List of Publications by Citations

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94  
papers

2,037  
citations

25  
h-index

40  
g-index

98  
ext. papers

2,682  
ext. citations

6.6  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
94	Transparent cellulose films with high gas barrier properties fabricated from aqueous alkali/urea solutions. <i>Biomacromolecules</i> , <b>2011</b> , 12, 2766-71	6.9	184
93	Cellulose nanofibril/boron nitride nanosheet composites with enhanced energy density and thermal stability by interfibrillar cross-linking through Ca <sup>2+</sup> . <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1403-1411	13	84
92	Flexible Regenerated Cellulose/Boron Nitride Nanosheet High-Temperature Dielectric Nanocomposite Films with High Energy Density and Breakdown Strength. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7151-7158	8.3	72
91	The dissolution of cellulose in NaOH-based aqueous system by two-step process. <i>Cellulose</i> , <b>2011</b> , 18, 237-245	5.5	64
90	Role of sodium zincate on cellulose dissolution in NaOH/urea aqueous solution at low temperature. <i>Carbohydrate Polymers</i> , <b>2011</b> , 83, 1185-1191	10.3	64
89	Supertough and ultrasensitive flexible electronic skin based on nanocellulose/sulfonated carbon nanotube hydrogel films. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6311-6318	13	61
88	Highly tough and transparent layered composites of nanocellulose and synthetic silicate. <i>Nanoscale</i> , <b>2014</b> , 6, 392-9	7.7	61
87	Recent advances in cellulose-based piezoelectric and triboelectric nanogenerators for energy harvesting: a review. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 1910-1937	13	61
86	Comparative characterization of TEMPO-oxidized cellulose nanofibril films prepared from non-wood resources. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 59, 208-13	7.9	57
85	Cellulose nanofibrils improve the properties of all-cellulose composites by the nano-reinforcement mechanism and nanofibril-induced crystallization. <i>Nanoscale</i> , <b>2015</b> , 7, 17957-63	7.7	56
84	Properties of cellulose films prepared from NaOH/urea/zincate aqueous solution at low temperature. <i>Cellulose</i> , <b>2011</b> , 18, 681-688	5.5	55
83	Reinforcement of ramie fibers on regenerated cellulose films. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 2319-2324	8.6	46
82	Structure and Properties of Regenerated Cellulose Filaments Prepared from Cellulose Carbamate/NaOH/ZnO Aqueous Solution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2604-2612	8.3	41
81	A three-dimensional graphene aerogel containing solvent-free polyaniline fluid for high performance supercapacitors. <i>Nanoscale</i> , <b>2017</b> , 9, 17710-17716	7.7	40
80	Cellulose-clay layered nanocomposite films fabricated from aqueous cellulose/LiOH/urea solution. <i>Carbohydrate Polymers</i> , <b>2014</b> , 100, 179-84	10.3	38
79	High-performance nanogenerators based on flexible cellulose nanofibril/MoS <sub>2</sub> nanosheet composite piezoelectric films for energy harvesting. <i>Nano Energy</i> , <b>2021</b> , 80, 105541	17.1	36
78	Facile fabrication of transparent cellulose films with high water repellency and gas barrier properties. <i>Cellulose</i> , <b>2012</b> , 19, 1913-1921	5.5	35

77	Transparent and flexible cellulose dielectric films with high breakdown strength and energy density. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 105-111	19.4	35
76	Flexible dielectric film with high energy density based on chitin/boron nitride nanosheets. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123147	14.7	35
75	Flexible Cellulose/BaTiO <sub>3</sub> Nanocomposites with High Energy Density for Film Dielectric Capacitor. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10641-10648	8.3	34
74	Increase in the water contact angle of composite film surfaces caused by the assembly of hydrophilic nanocellulose fibrils and nanoclay platelets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12707-12	9.5	34
73	Properties and bioapplications of blended cellulose and corn protein films. <i>Macromolecular Bioscience</i> , <b>2009</b> , 9, 849-56	5.5	33
72	Carbonized Cellulose Nanofibril/Graphene Oxide Composite Aerogels for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1145-1151	6.1	29
71	Improvement of mechanical and oxygen barrier properties of cellulose films by controlling drying conditions of regenerated cellulose hydrogels. <i>Cellulose</i> , <b>2012</b> , 19, 695-703	5.5	28
70	Multi-color fluorescent carbon dots with single wavelength excitation for white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 793, 613-619	5.7	26
69	Fe <sup>3+</sup> Cross-Linked Polyaniline/Cellulose Nanofibril Hydrogels for High-Performance Flexible Solid-State Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17653-17660	8.3	25
68	TEMPO-oxidized cellulose nanofibril/layered double hydroxide nanocomposite films with improved hydrophobicity, flame retardancy and mechanical properties. <i>Composites Science and Technology</i> , <b>2019</b> , 171, 111-117	8.6	25
67	Luminescent and Transparent Nanocellulose Films Containing Europium Carboxylate Groups as Flexible Dielectric Materials. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 4972-4979	5.6	25
66	Dissolution of Wood Pulp in Aqueous NaOH/Urea Solution via Dilute Acid Pretreatment. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 6113-9	5.7	24
65	Doubly cross-linked nanocellulose hydrogels with excellent mechanical properties. <i>Cellulose</i> , <b>2019</b> , 26, 8645-8654	5.5	23
64	Carboxylated nanocellulose/poly(ethylene oxide) composite films as solid-solid phase-change materials for thermal energy storage. <i>Carbohydrate Polymers</i> , <b>2019</b> , 225, 115215	10.3	23
63	Effects of lignin and hemicellulose contents on dissolution of wood pulp in aqueous NaOH/urea solution. <i>Cellulose</i> , <b>2014</b> , 21, 1205-1215	5.5	23
62	Solution-processed Graphene-MoS <sub>2</sub> heterostructure for efficient hole extraction in organic solar cells. <i>Carbon</i> , <b>2019</b> , 142, 156-163	10.4	23
61	Chitin/MoS Nanosheet Dielectric Composite Films with Significantly Enhanced Discharge Energy Density and Efficiency. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2929-2937	6.9	22
60	Facile fabrication of Fe <sub>3</sub> O <sub>4</sub> nanoparticle/carbon nanofiber aerogel from Fe-ion cross-linked cellulose nanofibrils as anode for lithium-ion battery with superhigh capacity. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 829, 154541	5.7	22

59	Flexible Carbon Nanotube Modified Separator for High-Performance Lithium-Sulfur Batteries. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	22
58	Atomic simulation of melting and surface segregation of ternary Fe-Ni-Cr nanoparticles. <i>Applied Surface Science</i> , <b>2019</b> , 465, 871-879	6.7	22
57	Flexible cellulose nanofibril/pristine graphene nanocomposite films with high electrical conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2019</b> , 119, 119-126	8.4	20
56	Enhanced piezoelectricity of a PVDF-based nanocomposite utilizing high-yield dispersions of exfoliated few-layer MoS <sub>2</sub> . <i>Ceramics International</i> , <b>2019</b> , 45, 11347-11352	5.1	20
55	Novel Three-Dimensional Carbon Nanotube-Graphene Architecture with Abundant Chambers and Its Application in Lithium-Silicon Batteries. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13807-13814	3.8	20
54	Flexible electronic skin sensor based on regenerated cellulose/carbon nanotube composite films. <i>Cellulose</i> , <b>2020</b> , 27, 10199-10211	5.5	20
53	Facile dissolution of wood pulp in aqueous NaOH/urea solution by ball milling pretreatment. <i>Industrial Crops and Products</i> , <b>2018</b> , 118, 48-52	5.9	19
52	Facile preparation of pristine graphene using urea/glycerol as efficient stripping agents. <i>Nano Research</i> , <b>2018</b> , 11, 820-830	10	18
51	Facile one-step exfoliation of large-size 2D materials via simply shearing in triethanolamine. <i>Materials Letters</i> , <b>2017</b> , 199, 124-127	3.3	17
50	Phytic acid modified manganese dioxide/graphene composite aerogel as high-performance electrode materials for supercapacitors. <i>Applied Surface Science</i> , <b>2019</b> , 495, 143589	6.7	16
49	A novel fluid-filler/polymer composite as high-temperature thermally conductive and electrically insulating material. <i>Composites Science and Technology</i> , <b>2017</b> , 150, 128-134	8.6	16
48	Constructing enhanced pseudocapacitive Li <sup>+</sup> intercalation via multiple ionically bonded interfaces toward advanced lithium storage. <i>Energy Storage Materials</i> , <b>2020</b> , 24, 138-146	19.4	16
47	Creation of a new material stream from Japanese cedar resources to cellulose nanofibrils. <i>Reactive and Functional Polymers</i> , <b>2015</b> , 95, 19-24	4.6	15
46	Transparent konjac glucomannan/cellulose nanofibril composite films with improved mechanical properties and thermal stability. <i>Cellulose</i> , <b>2019</b> , 26, 3155-3165	5.5	14
45	Carbon nanofibril composites with high sulfur loading fabricated from nanocellulose for high-performance lithium-sulfur batteries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 603, 125249	5.1	14
44	Formation of nanosized islands of dialkyl Eketoester bonds for efficient hydrophobization of a cellulose film surface. <i>Langmuir</i> , <b>2014</b> , 30, 8109-18	4	14
43	The Complexation between Amide Groups of Polyamide-6 and Polysulfides in the Lithium-Sulfur Battery. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1700122	3.9	12
42	Flexible MoS <sub>2</sub> @electrospun PVDF hybrid membrane as advanced anode for lithium storage. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 547-555	14.7	12

41	Transparent, flexible, and high-strength regenerated cellulose/saponite nanocomposite films with high gas barrier properties. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 3168-3174	2.9	11
40	Necklace-like ferroferric oxide (FeO) nanoparticle/carbon nanofibril aerogels with enhanced lithium storage by carbonization of ferric alginate. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 576, 119-126	9.3	11
39	In-situ synthesis of flexible nanocellulose/carbon nanotube/polypyrrole hydrogels for high-performance solid-state supercapacitors. <i>Cellulose</i> , <b>2021</b> , 28, 7097-7108	5.5	10
38	Ordered porous structure of nitrogen-self-doped carbon supporting Co <sub>3</sub> O <sub>4</sub> nanoparticles as anode for improving cycle stability in lithium-ion batteries. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 1226-1235	2.5	9
37	A novel ternary composite aerogel for high-performance supercapacitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 610, 125644	5.1	9
36	Properties of gel polymer electrolytes based on poly(butyl acrylate) semi-interpenetrating polymeric networks toward Li-ion batteries. <i>Ionics</i> , <b>2017</b> , 23, 2319-2325	2.7	8
35	Incorporation of elaborately Synthesized BNNSs by a mild mechanical stirring process for the concurrent enhancement of thermal conductivity and dielectric breakdown strength of PVDF. <i>Composites Science and Technology</i> , <b>2020</b> , 200, 108381	8.6	8
34	Few-layer MoS <sub>2</sub> nanosheets anchored by CNT network for superior lithium storage. <i>Electrochimica Acta</i> , <b>2020</b> , 331, 135392	6.7	7
33	Rationally designed N, P Co-doped porous film via steam etching as self-supported binder-free anode for high-performance lithium-ion battery. <i>Carbon</i> , <b>2021</b> , 171, 36-44	10.4	7
32	Synthesis and Characterization of a Fluid-Like Novel Aniline Pentamer. <i>Macromolecular Research</i> , <b>2018</b> , 26, 233-237	1.9	6
31	Flexible and sensitive piezoresistive electronic skin based on TOCN/PPy hydrogel films. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51367	2.9	6
30	Achieving high-performance energy harvesting and self-powered sensing in a flexible cellulose nanofibril/MoS <sub>2</sub> /BaTiO <sub>3</sub> composite piezoelectric nanogenerator. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 15552-15565	7.1	5
29	Antifreezing ionotronic skin based on flexible, transparent, and tunable ionic conductive nanocellulose hydrogels. <i>Cellulose</i> , <b>2021</b> , 28, 5657	5.5	5
28	Understanding Interfacial Mechanics and Mechanisms of Exfoliation and Stabilization of Graphene Using Urea/Glycerol Solvents. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 1900155	3.5	5
27	Synthesis of the novel binary composite of self-suspended polyaniline (S-PANI) and functionalized multi-walled carbon nanotubes for high-performance supercapacitors. <i>Ionics</i> , <b>2021</b> , 27, 1743-1755	2.7	5
26	Carbon nanotube/zirconia composite-coated separator for a high-performance rechargeable lithium-sulfur battery. <i>AIP Advances</i> , <b>2018</b> , 8, 105315	1.5	5
25	Fabrication of porous carbon nanofibril/MnO <sub>2</sub> composite aerogels from TEMPO-oxidized cellulose nanofibrils for high-performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 626, 127003	5.1	5
24	Cellulose/BaTiO nanofiber dielectric films with enhanced energy density by interface modification with poly(dopamine). <i>Carbohydrate Polymers</i> , <b>2020</b> , 249, 116883	10.3	4

23	Optimized structure and electrochemical properties of sulfonated carbon nanotubes/CoNi bimetallic layered hydroxide composites for high-performance supercapacitors. <i>Ceramics International</i> , <b>2021</b> , 47, 4648-4658	5.1	4
22	High Performance Supercapacitors Based on Mesopore Structured Multiwalled Carbon Nanotubes. <i>ChemistryOpen</i> , <b>2021</b> , 10, 347-351	2.3	4
21	Flexible dielectric nanocomposite films based on chitin/boron nitride/copper calcium titanate with high energy density. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 149, 106554	8.4	4
20	Porous cellulose composite aerogel films with super piezoelectric properties for energy harvesting.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 288, 119407	10.3	4
19	Highly Sensitive Multifunctional Electronic Skin Based on Nanocellulose/MXene Composite Films with Good Electromagnetic Shielding Biocompatible Antibacterial Properties. <i>Biomacromolecules</i> , <b>2021</b> ,	6.9	4
18	Solid-state cooling by elastocaloric polymer with uniform chain-lengths.. <i>Nature Communications</i> , <b>2022</b> , 13, 9	17.4	3
17	Preparation and Properties of Cellulose/Poly(vinyl alcohol) Blend Films Based on Dissolution in a Non-Toxic Solvent System. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2009</b> , 3, 199-204	1.4	3
16	Toward Strong and Tough Wood-Based Hydrogels for Sensors. <i>Biomacromolecules</i> , <b>2021</b> ,	6.9	3
15	Regenerated Cellulose/NaNbO <sub>3</sub> Nanowire Dielectric Composite Films with Superior Discharge Energy Density and Efficiency. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8150-8157	6.1	3
14	Facile and efficient synthesis of magnetic fluorescent nanocomposites based on carbon nanotubes. <i>Ceramics International</i> , <b>2020</b> , 46, 8928-8934	5.1	2
13	Flexible and environment-friendly regenerated cellulose/MoS <sub>2</sub> nanosheet nanogenerators with high piezoelectricity and output performance. <i>Cellulose</i> , <b>2021</b> , 28, 6513-6522	5.5	2
12	Thiokol with Excellent Restriction on the Shuttle Effect in LithiumSulfur Batteries. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 79	2.6	2
11	Electrode materials from cuprous oxide and chitin nanofibrils for supercapacitors with high specific capacity. <i>Ionics</i> ,1	2.7	1
10	Incorporation of Fe <sub>3</sub> O <sub>4</sub> nanoparticles in three-dimensional carbon nanofiber/carbon nanotube aerogels for high-performance anodes of lithium-ion batteries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 631, 127716	5.1	1
9	Electrochemical performances of graphene/poly-3,4-dioxyethylenethiophene aerogels as supercapacitor electrode materials. <i>Ionics</i> , <b>2021</b> , 27, 3615-3626	2.7	1
8	Regenerated cellulose/layered double hydroxide nanocomposite films with improved mechanical property. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51448	2.9	1
7	Flexible cellulose/alumina (Al <sub>2</sub> O <sub>3</sub> ) nanocomposite films with enhanced energy density and efficiency for dielectric capacitors. <i>Cellulose</i> , <b>2021</b> , 28, 1541-1553	5.5	1
6	Manganese oxide/nitrogen-doped carbon aerogels from cellulose nanofibrils for high-performance supercapacitor electrodes. <i>Diamond and Related Materials</i> , <b>2022</b> , 122, 108813	3.5	0

5	Organic montmorillonite and doped polyaniline-enhanced self-healing polydimethylsiloxane. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 1730-1739	2.5	○
4	Fe <sub>3</sub> O <sub>4</sub> nanoparticle/high residual carbon nanofibril aerogels for anode material of lithium-ion battery with enhanced capacity. <i>Ionics</i> , <b>2021</b> , 27, 4225-4232	2.7	○
3	Fabrication of carbon nanofibril/carbon nanotube composites with high sulfur loading from nanocellulose for high-performance lithium-sulfur batteries. <i>Diamond and Related Materials</i> , <b>2022</b> , 126, 109137	3.5	○
2	Nanopolysaccharides in Energy Storage Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2019</b> , 137-169	0.6	
1	A liquid-like poly(6-chloroindole) with monodisperse core-shell structure and efficient luminescence. <i>Ionics</i> , <b>2021</b> , 27, 4097-4104	2.7	