

# Chengguo Wang

## List of Publications by Year in descending order

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63  
papers

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471371  
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docs citations

63  
times ranked

718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Evolution of Polyacrylonitrile Precursor Fibers during Preoxidation and Carbonization. <i>Polymer Bulletin</i> , 2007, 59, 527-536.	1.7	113
2	Influence of Precursor Properties on the Thermal Stabilization of Polyacrylonitrile Fibers. <i>Polymer Bulletin</i> , 2006, 57, 757-763.	1.7	53
3	Combined Effect of Processing Parameters on Thermal Stabilization of PAN Fibers. <i>Polymer Bulletin</i> , 2006, 57, 525-533.	1.7	48
4	Evolution of tension during the thermal stabilization of polyacrylonitrile fibers under different parameters. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5500-5506.	1.3	31
5	Synthesis and growth mechanism of carbon nanotubes growing on carbon fiber surfaces with improved tensile strength. <i>Nanotechnology</i> , 2018, 29, 395602.	1.3	28
6	High-molecular-weight polyacrylonitrile by atom transfer radical polymerization. <i>Journal of Applied Polymer Science</i> , 2006, 100, 3372-3376.	1.3	27
7	Fibrils separated from polyacrylonitrile fiber by ultrasonic etching in dimethylsulphoxide solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 617-619.	2.4	26
8	Synthesis of polyacrylonitrile via reverse atom transfer radical polymerization catalyzed by FeCl <sub>3</sub> /isophthalic acid. <i>Journal of Polymer Science Part A</i> , 2006, 44, 219-225.	2.5	23
9	Continuous method for grafting CNTs on the surface of carbon fibers based on cobalt catalyst assisted by thiourea. <i>Journal of Materials Science</i> , 2019, 54, 12498-12508.	1.7	23
10	Microstructural evolution in polyacrylonitrile fibers during oxidative stabilization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 759-765.	2.4	22
11	Morphology-controlled ZnO particles from an ionic liquid precursor. <i>CrystEngComm</i> , 2009, 11, 2683.	1.3	21
12	Aqueous deposited copolymerization of acrylonitrile and itaconic acid. <i>Journal of Applied Polymer Science</i> , 2009, 111, 3163-3169.	1.3	20
13	Effect of coagulation temperature on the properties of poly(acrylonitrile- itaconic acid) fibers in wet spinning. <i>Journal of Polymer Research</i> , 2007, 14, 223-228.	1.2	19
14	Heredity and difference of multiple-scale microstructures in PAN-based carbon fibers and their precursor fibers. <i>Journal of Applied Polymer Science</i> , 2012, 125, 3159-3166.	1.3	19
15	Electrochemical Insights, Developing Strategies, and Perspectives toward Advanced Potassium Sulfur Batteries. <i>Small</i> , 2020, 16, e2003386.	5.2	19
16	Reverse atom-transfer radical polymerization of acrylonitrile catalyzed by FeCl <sub>3</sub> /iminodiacetic acid. <i>Polymer International</i> , 2006, 55, 171-175.	1.6	17
17	Preparation of High-Quality Polyacrylonitrile Precursors for Carbon Fibers Through a High Drawing Ratio in the Coagulation Bath During a Dry-Jet Wet Spinning Process. <i>Journal of Macromolecular Science - Physics</i> , 2019, 58, 128-140.	0.4	17
18	Correlation between fibril structures and mechanical properties of polyacrylonitrile fibers during the dry-jet wet spinning process. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47336.	1.3	17

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19	Microstructure of fibrils separated from polyacrylonitrile fibers by ultrasonic etching. <i>Science China Technological Sciences</i> , 2010, 53, 1489-1494.	2.0	16
20	Reverse atom transfer radical polymerization of acrylonitrile. <i>Journal of Applied Polymer Science</i> , 2006, 99, 32-36.	1.3	15
21	Atom transfer radical polymerization of acrylonitrile. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1050-1054.	1.3	15
22	Tensile properties of CNTs-grown carbon fiber fabrics prepared using Fe-Co bimetallic catalysts at low temperature. <i>Journal of Materials Science</i> , 2019, 54, 11841-11847.	1.7	15
23	Influencing factors and growth kinetics analysis of carbon nanotube growth on the surface of continuous fibers. <i>Nanotechnology</i> , 2021, 32, 285702.	1.3	14
24	Synthesis of polyacrylonitrile via reverse atom transfer radical polymerization (ATRP) initiated by diethyl 2,3-dicyano-2,3-diphenylsuccinate, FeCl <sub>3</sub> , and triphenylphosphine. <i>Polymer International</i> , 2006, 55, 326-329.	1.6	13
25	Study on monomer reactivity ratios of acrylonitrile/itaconic acid in aqueous deposited copolymerization system initiated by ammonium persulfate. <i>Journal of Polymer Research</i> , 2009, 16, 437-442.	1.2	13
26	Determination of monomer apparent reactivity ratios for acrylonitrile-acrylamide copolymerization system. <i>Journal of Materials Science</i> , 2005, 40, 609-612.	1.7	12
27	Effect of Microstructures of Carbon Nanoparticles Grown on Carbon Fibers on the Interfacial Properties of Epoxy Composites. <i>Langmuir</i> , 2022, 38, 2392-2400.	1.6	12
28	Mesopores variation in polyacrylonitrile fibers during dry-jet wet spinning process. <i>Iranian Polymer Journal (English Edition)</i> , 2019, 28, 259-269.	1.3	10
29	Force field in coagulation bath at low temperature induced microfibril evolution within PAN nascent fiber and precursor fiber. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49380.	1.3	10
30	Feasible Catalytic-Insoluble Strategy Enabled by Sulfurized Polyacrylonitrile with <i>In Situ</i> Built Electrocatalysts for Ultrastable Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50936-50947.	4.0	10
31	Degradation of acrylonitrile-ammonium itaconate copolymers. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1708-1711.	1.3	9
32	Growth of carbon nanotubes on carbon fiber at relatively low temperature for improved interfacial adhesion with epoxy. <i>Journal of Materials Science</i> , 2022, 57, 4594-4604.	1.7	9
33	Thermal properties of acrylonitrile/itaconic acid polymers in oxidative and nonoxidative atmospheres. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1207-1212.	1.3	8
34	A new structure-related model to predict the permeability of non-crimp fabric preform. <i>Journal of Composite Materials</i> , 2013, 47, 3053-3063.	1.2	8
35	From Microfibrillar Network to Lamellae during the Coagulation Process of Polyacrylonitrile Fiber: Visualization of Intermediate Structure Evolution. <i>Macromolecules</i> , 2020, 53, 8663-8673.	2.2	8
36	Monomer apparent reactivity ratios for acrylonitrile/methyl vinyl ketone copolymerization system. <i>Journal of Applied Polymer Science</i> , 2006, 102, 4045-4048.	1.3	7

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37	Comparison of tensile fracture morphologies among various polyacrylonitrile-based carbon fibers. <i>Polymer Bulletin</i> , 2007, 59, 381-390.	1.7	7
38	The degradation and prestabilization of acrylonitrile copolymers. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1596-1600.	1.3	7
39	Fibrillar structure development of polyacrylonitrile fibers treated by ultrasonic etching in oxidative stabilization. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1038-1043.	1.6	7
40	Hierarchically Porous Carbon/Fe <sub>3</sub> C Absorbers Derived from Luffa Sponge with Efficient Microwave Absorption. <i>ChemistrySelect</i> , 2020, 5, 15075-15083.	0.7	7
41	Acrylonitrile/ammonium itaconate aqueous deposited copolymerization. <i>Journal of Applied Polymer Science</i> , 2006, 102, 904-908.	1.3	6
42	Structure and property relations between the polyacrylonitrile-based prestabilized fibers and the partially carbonized fibers. <i>Journal of Applied Polymer Science</i> , 2012, 124, 5172-5179.	1.3	6
43	Thermal Curing Induced Deformation of Fiber Composite Laminates. <i>Polymers and Polymer Composites</i> , 2012, 20, 171-176.	1.0	6
44	Communication—A Technique for Online Continuous Manufacture of Carbon Nanotubes-Grown Carbon Fibers. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, M23-M25.	0.9	6
45	Interaction between polyacrylonitrile and alkalis. <i>Journal of Applied Polymer Science</i> , 2006, 102, 272-275.	1.3	5
46	Densification treatment and properties of carbon fiber reinforced contact strip. <i>Science and Engineering of Composite Materials</i> , 2014, 21, 49-58.	0.6	5
47	Synthesis and electromagnetic properties of nanodendritic Fe <sub>4</sub> N. <i>Functional Materials Letters</i> , 2016, 09, 1650021.	0.7	5
48	Fibril microstructural changes of polyacrylonitrile fibers during the post-spinning process. <i>Colloid and Polymer Science</i> , 2018, 296, 1307-1311.	1.0	5
49	Visualization of microfibrillar elements in cross-section of polyacrylonitrile fiber along the fiber spinning line. <i>Microscopy Research and Technique</i> , 2019, 82, 2026-2034.	1.2	5
50	Determination of the degradation apparent activation energy of acrylonitrile/acrylic acid copolymers. <i>Journal of Applied Polymer Science</i> , 2006, 100, 4668-4671.	1.3	4
51	Synthesis and properties of acrylonitrile-methyl itaconate copolymers as spun carbon fiber precursors. <i>Fibers and Polymers</i> , 2014, 15, 1583-1588.	1.1	4
52	The morphology and crystalline region distribution of polyacrylonitrile nanofibers prepared by electrospinning. <i>Polymer Science - Series A</i> , 2016, 58, 357-367.	0.4	4
53	Effects of grafting low-generation poly(amido amine) onto carbon fiber surface by in situ polymerization on the mechanical properties of fiber composites. <i>High Performance Polymers</i> , 2017, 29, 808-815.	0.8	4
54	Research on PAN Nascent Fiber Interior Microstructure through Ultrasonic Etching and Ultrathin Sectioning. <i>Polymer Science - Series A</i> , 2018, 60, 594-598.	0.4	4

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55	Copolymerization of acrylonitrile with methyl vinyl ketone. Journal of Applied Polymer Science, 2006, 99, 1940-1944.	1.3	3
56	Research on the multi-scale microstructure of polyacrylonitrile precursors prepared by a dry-jet wet spinning process. High Performance Polymers, 2019, 31, 662-670.	0.8	3
57	Effect of Comonomers on Finishing Behavior of Carbon Fiber Precursors. Journal of Polymer Research, 2005, 12, 313-316.	1.2	2
58	Viscometric Study of Dilute Poly(Acrylonitrile- $\alpha$ -Ammonium Itaconate) Solutions. Journal of Polymer Research, 2006, 13, 293-296.	1.2	2
59	Study on the relationships of mechanical performance with the short-range and long-range structure of 500-900 $\mu$ m carbonized fiber. Journal of Industrial Textiles, 2015, 45, 33-47.	1.1	2
60	Evaluation of the Fluidized Preoxidation for Producing High Behavior PAN Based Carbon Fiber. Polymer Bulletin, 2007, 59, 555-566.	1.7	1
61	Practical Application Study of Hybrid Fibers Reinforced Organic Brake Pad for Railroad Passenger-Coach Braking. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 531-537.	1.2	1
62	Effect of drying method on the microstructures and mechanical strength of polyacrylonitrile nascent fibers. Drying Technology, 2022, 40, 1329-1337.	1.7	1
63	Controlled chemical oxidative polymerization of conductive polyaniline with excellent pseudocapacitive properties. Journal of Materials Science: Materials in Electronics, 2021, 32, 6965-6975.	1.1	0