Menghe Miao

List of Publications by Year
in descending order

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		76196	91712
141	5,627	40	69
papers	citations	h-index	g-index

145	145	145	5835
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highâ€Performance Twoâ€Ply Yarn Supercapacitors Based on Carbon Nanotubes and Polyaniline Nanowire Arrays. Advanced Materials, 2013, 25, 1494-1498.	11.1	555
2	Core-Spun Carbon Nanotube Yarn Supercapacitors for Wearable Electronic Textiles. ACS Nano, 2014, 8, 4571-4579.	7.3	228
3	High-Performance Two-Ply Yarn Supercapacitors Based on Carbon Nanotube Yarns Dotted with Co₃O₄and NiO Nanoparticles. Small, 2015, 11, 854-861.	5.2	226
4	A bio-based hyperbranched flame retardant for epoxy resins. Chemical Engineering Journal, 2020, 381, 122719.	6.6	207
5	Influence of moisture absorption on the interfacial strength of bamboo/vinyl ester composites. Composites Part A: Applied Science and Manufacturing, 2009, 40, 2013-2019.	3.8	203
6	Electrical conductivity of pure carbon nanotube yarns. Carbon, 2011, 49, 3755-3761.	5.4	199
7	Flexible supercapacitors based on carbon nanotube-MnO2 nanocomposite film electrode. Chemical Engineering Journal, 2019, 371, 145-153.	6.6	173
8	Poissonâ€™s ratio and porosity of carbon nanotube dry-spun yarns. Carbon, 2010, 48, 2802-2811.	5.4	129
9	Closed-Loop Recyclable Fully Bio-Based Epoxy Vitrimers from Ferulic Acid-Derived Hyperbranched Epoxy Resin. Macromolecules, 2022, 55, 595-607.	2.2	108
10	Commingled natural fibre/polypropylene wrap spun yarns for structured thermoplastic composites. Composites Science and Technology, 2010, 70, 130-135.	3.8	104
11	Recyclable thermoset hyperbranched polymers containing reversible hexahydro-s-triazine. Nature Sustainability, 2020, 3, 29-34.	11.5	102
12	Yarn spun from carbon nanotube forests: Production, structure, properties and applications. Particuology, 2013, 11, 378-393.	2.0	99
13	Effect of gamma-irradiation on the mechanical properties of carbon nanotube yarns. Carbon, 2011, 49, 4940-4947.	5.4	91
14	Asymmetric carbon nanotubeâ€“MnO₂two-ply yarn supercapacitors for wearable electronics. Nanotechnology, 2014, 25, 135401.	1.3	89
15	Surface properties of low-temperature plasma treated wool fabrics. Journal of Materials Processing Technology, 1998, 83, 180-184.	3.1	86
16	Novel core/shell CoSe₂@PPy nanoflowers for high-performance fiber asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 10361-10369.	5.2	76
17	Degradable and recyclable bio-based thermoset epoxy resins. Green Chemistry, 2020, 22, 4187-4198.	4.6	70
18	Chitin nanocrystals grafted with poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and their effects on thermal behavior of PHBV. Carbohydrate Polymers, 2012, 87, 784-789.	5.1	65

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19	Two-ply yarn supercapacitor based on carbon nanotube/stainless steel core-sheath yarn electrodes and ionic liquid electrolyte. Journal of Power Sources, 2016, 307, 489-495.	4.0	64
20	Body armor for stab and spike protection, Part 1: Scientific literature review. Textile Reseach Journal, 2018, 88, 812-832.	1.1	62
21	Gamma-Irradiated Carbon Nanotube Yarn As Substrate for High-Performance Fiber Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 2553-2560.	4.0	61
22	Studies of JetRing Spinning Part I: Reducing Yarn Hairiness with the JetRing. Textile Reseach Journal, 1997, 67, 253-258.	1.1	60
23	Flexible, high performance Two-Ply Yarn Supercapacitors based on irradiated Carbon Nanotube Yarn and PEDOT/PSS. Electrochimica Acta, 2014, 127, 433-438.	2.6	59
24	Flexible Asymmetric Threadlike Supercapacitors Based on NiCo₂Se₄ Nanosheet and NiCo₂O₄/Polypyrrole Electrodes. ChemSusChem, 2017, 10, 1427-1435.	3.6	59
25	Finite element models of natural fibers and their composites: A review. Journal of Reinforced Plastics and Composites, 2018, 37, 617-635.	1.6	58
26	Controllability of epoxy equivalent weight and performance of hyperbranched epoxy resins. Composites Part B: Engineering, 2019, 160, 615-625.	5.9	58
27	Low Temperature Plasma on Wool Substrates: The Effect of the Nature of the Gas. Textile Reseach Journal, 1999, 69, 407-416.	1.1	56
28	Highly aligned flax/polypropylene nonwoven preforms for thermoplastic composites. Composites Science and Technology, 2011, 71, 1713-1718.	3.8	56
29	Closed-Loop Recycling of Both Resin and Fiber from High-Performance Thermoset Epoxy/Carbon Fiber Composites. ACS Macro Letters, 2021, 10, 1113-1118.	2.3	56
30	Effects of humidity conditions at fabrication on the interfacial shear strength of flax/unsaturated polyester composites. Composites Part B: Engineering, 2014, 60, 186-192.	5.9	52
31	High performance flexible supercapacitor based on metal-organic-framework derived CoSe2 nanosheets on carbon nanotube film. Journal of Power Sources, 2021, 490, 229517.	4.0	51
32	Moisture-Responsive Natural Fiber Coil-Structured Artificial Muscles. ACS Applied Materials & Interfaces, 2018, 10, 32256-32264.	4.0	49
33	High sensitivity knitted fabric strain sensors. Smart Materials and Structures, 2016, 25, 105008.	1.8	48
34	Synthesis of degradable hyperbranched epoxy resins with high tensile, elongation, modulus and low-temperature resistance. Composites Part B: Engineering, 2020, 192, 108005.	5.9	47
35	Simultaneous Improvement on Strength, Modulus, and Elongation of Carbon Nanotube Films Functionalized by Hyperbranched Polymers. ACS Applied Materials & Interfaces, 2019, 11, 36278-36285.	4.0	45
36	The role of twist in dry spun carbon nanotube yarns. Carbon, 2016, 96, 819-826.	5.4	43

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37	High Performance Carbon Nanotube Yarn Supercapacitors with a Surface-Oxidized Copper Current Collector. ACS Applied Materials & Interfaces, 2015, 7, 25835-25842.	4.0	42
38	High performance two-ply carbon nanocomposite yarn supercapacitors enhanced with a platinum filament and in situ polymerized polyaniline nanowires. Journal of Materials Chemistry A, 2016, 4, 3828-3834.	5.2	42
39	Construction of extensible and flexible supercapacitors from covalent organic framework composite membrane electrode. Chemical Engineering Journal, 2020, 387, 124071.	6.6	42
40	Influence of Spinning Parameters on Core Yarn Sheath Slippage and Other Properties. Textile Reseach Journal, 1996, 66, 676-684.	1.1	41
41	Synthesis of a Degradable High-Performance Epoxy-Ended Hyperbranched Polyester. ACS Omega, 2017, 2, 1350-1359.	1.6	41
42	The effect of low-temperature plasma on the chrome dyeing of wool fibre. Journal of Materials Processing Technology, 1998, 82, 122-126.	3.1	40
43	Conversion of Natural Fibres into Structural Composites. Journal of Textile Engineering, 2008, 54, 165-177.	0.5	37
44	Effect of MWCNT dimension on the electrical percolation and mechanical properties of poly(vinylidenefluoride-hexafluoropropylene) based nanocomposites. Synthetic Metals, 2014, 191, 99-103.	2.1	37
45	Yarn Twisting Dynamics. Textile Reseach Journal, 1993, 63, 150-158.	1.1	36
46	Effect of removing polypropylene fibre surface finishes on mechanical performance of kenaf/polypropylene composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1687-1693.	3.8	36
47	The Insertion of â€˜Twistâ€™ into Yarns by Means of Air-jets. Part I: An Experimental Study of Air-jet Spinning. Journal of the Textile Institute, 1987, 78, 189-203.	1.0	35
48	Reducing Yarn Hairiness with an Air-Jet Attachment During Winding. Textile Reseach Journal, 1997, 67, 481-485.	1.1	34
49	Microstructure and mechanical properties of z-pinned carbon fiber reinforced aluminum alloy composites. Materials and Design, 2015, 86, 872-877.	3.3	34
50	Production, structure and properties of twistless carbon nanotube yarns with a high density sheath. Carbon, 2012, 50, 4973-4983.	5.4	33
51	High-performance flexible self-powered strain sensor based on carbon nanotube/ZnSe/CoSe2 nanocomposite film electrodes. Nano Research, 2022, 15, 170-178.	5.8	33
52	A comparative study of electrodeposition techniques on the microstructure and property of nanocrystalline cobalt deposit. Materials Chemistry and Physics, 2013, 139, 663-673.	2.0	30
53	Prestressed natural fibre spun yarn reinforced polymer-matrix composites. Composites Part A: Applied Science and Manufacturing, 2015, 75, 68-76.	3.8	30
54	Highly efficient preparation of hyperbranched epoxy resins by UV-initiated thiol-ene click reaction. Progress in Organic Coatings, 2016, 101, 178-185.	1.9	30

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55	The Insertion of â€˜Twistâ€™ into Yarns by Means of Air-jets. Part II: Twist Distribution and Twist-insertion Rates in Air-jet Twisting.. Journal of the Textile Institute, 1987, 78, 204-219.	1.0	29
56	The versatility of hyperbranched epoxy resins containing hexahydro-s-triazine on diglycidyl ether of bisphenol-A composites. Composites Part B: Engineering, 2020, 196, 108109.	5.9	29
57	Fabrication of Supercapacitors from NiCo₂O₄ Nanowire/Carbonâ€Nanotube Yarn for Ultraviolet Photodetectors and Portable Electronics. Energy Technology, 2017, 5, 1449-1456.	1.8	28
58	A comparison of the twisted and untwisted structures for one-dimensional carbon nanotube assemblies. Materials and Design, 2018, 146, 20-27.	3.3	28
59	Air Interlaced Yarn Structure and Properties. Textile Reseach Journal, 1995, 65, 433-440.	1.1	27
60	Solventâ€Tunable Microstructures of Aligned Carbon Nanotube Films. Advanced Materials Interfaces, 2016, 3, 1600352.	1.9	27
61	TiO2 crystalline structure and electrochemical performance in two-ply yarn CNT/TiO2 asymmetric supercapacitors. Journal of Materials Science, 2017, 52, 7733-7743.	1.7	27
62	Sandwich-Structured Transition Metal Oxide/Graphene/Carbon Nanotube Composite Yarn Electrodes for Flexible Two-Ply Yarn Supercapacitors. Industrial & Engineering Chemistry Research, 2020, 59, 5752-5759.	1.8	26
63	Fabric-bagging: Stress Distribution in Isotropic and Anisotropic Fabrics. Journal of the Textile Institute, 2000, 91, 563-576.	1.0	24
64	An Experimental Study of the Needled Nonwoven Process Part II: Fiber Transport by Barbed Needles. Textile Reseach Journal, 2004, 74, 394-398.	1.1	24
65	Mechanical and abrasive wear performance of woven flax fabric/polyoxymethylene composites. Wear, 2018, 414-415, 9-20.	1.5	24
66	High sensitivity knitted fabric bi-directional pressure sensor based on conductive blended yarn. Smart Materials and Structures, 2019, 28, 035017.	1.8	24
67	Effect of Low Temperature Plasma, Chlorination, and Polymer Treatments and Their Combinations on the Properties of Wool Fibers. Textile Reseach Journal, 1998, 68, 814-820.	1.1	23
68	Fiber-shaped Supercapacitor and Electrocatalyst Containing of Multiple Carbon Nanotube Yarns and One Platinum Wire. Electrochimica Acta, 2017, 245, 69-78.	2.6	23
69	Wearable supercapacitors based on conductive cotton yarns. Journal of Materials Science, 2018, 53, 14586-14597.	1.7	23
70	Flexible two-ply yarn supercapacitors based on carbon nanotube/stainless steel core spun yarns decorated with Co 3 O 4 nanoparticles and MnO x composites. Electrochimica Acta, 2016, 215, 535-542.	2.6	22
71	Influence of microbond test parameters on interfacial shear strength of fiber reinforced polymer-matrix composites. Composites Part A: Applied Science and Manufacturing, 2017, 100, 55-63.	3.8	22
72	Functionalized carbon nanotube films by thiol-ene click reaction. Applied Surface Science, 2019, 486, 144-152.	3.1	22

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73	Preparation of Mesoporous Silica from Electrolytic Manganese Slags by Using Amino-Ended Hyperbranched Polyamide as Template. ACS Sustainable Chemistry and Engineering, 2017, 5, 10258-10265.	3.2	21
74	Multi-scale constitutive modeling of natural fiber fabric reinforced composites. Composites Part A: Applied Science and Manufacturing, 2018, 115, 383-396.	3.8	20
75	Tuning morphology and functionality of two-component self-assembly induced by H-bond and Ï€-Ï€ stacking. Dyes and Pigments, 2019, 170, 107586.	2.0	20
76	Optimising fibre alignment in twisted yarns for natural fibre composites. Journal of Composite Materials, 2014, 48, 2993-3002.	1.2	19
77	Optimizing twisted yarn structure for natural fiber-reinforced polymeric composites. Journal of Composite Materials, 2018, 52, 373-381.	1.2	19
78	Permeability anisotropy of flax nonwoven mats in vacuumâ€assisted resin transfer molding. Journal of the Textile Institute, 2011, 102, 612-620.	1.0	18
79	Simultaneous toughening and strengthening of diglycidyl ether of bisphenolâ€a using epoxyâ€ended hyperbranched polymers obtained from thiolâ€ene click reaction. Polymer Engineering and Science, 2018, 58, 1703-1709.	1.5	18
80	Influence of Machine Variables on Two-Strand Yarn Spinning Geometry. Textile Reseach Journal, 1993, 63, 116-120.	1.1	17
81	Metallic conductivity transition of carbon nanotube yarns coated with silver particles. Nanotechnology, 2014, 25, 275702.	1.3	17
82	Synthesis and Degradation Mechanism of Self-Cured Hyperbranched Epoxy Resins from Natural Citric Acid. ACS Omega, 2018, 3, 8141-8148.	1.6	17
83	Monitoring mitochondrial ATP in live cells: An ATP multisite-binding fluorescence turn-on probe. Dyes and Pigments, 2019, 163, 559-563.	2.0	17
84	Preparation of Epoxy Resins with Excellent Comprehensive Performance by Thiol-Epoxy Click Reaction. Progress in Organic Coatings, 2020, 139, 105436.	1.9	16
85	Synthesis of epoxyâ€ended hyperbranched polyesters with reinforcing and toughening function for diglycidyl ether of bisphenolâ€A. Polymer Composites, 2018, 39, E2046.	2.3	15
86	An Experimental Study of the Needled Nonwoven Process. Textile Reseach Journal, 2004, 74, 329-332.	1.1	14
87	An Experimental Study of the Needled Nonwoven Process. Textile Reseach Journal, 2004, 74, 485-490.	1.1	14
88	Preparation of nanocomposites with epoxy resins and thiol-functionalized carbon nanotubes by thiol-ene click reaction. Polymer Testing, 2019, 77, 105912.	2.3	14
89	Synthesis of renewable and self-curable thermosetting hyperbranched polymers by a click reaction. Progress in Organic Coatings, 2019, 134, 189-196.	1.9	14
90	The precise effect of degree of branching of epoxy-ended hyperbranched polymers on intrinsic property and performance. Progress in Organic Coatings, 2019, 127, 157-167.	1.9	14

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91	Flexible Supercapacitors Fabricated by Growing Porous NiCo₂O₄ In Situ on a Carbon Nanotube Film Using a Hyperbranched Polymer Template. ACS Applied Energy Materials, 2020, 3, 4043-4050.	2.5	14
92	Water-responsive artificial muscles from commercial viscose fibers without chemical treatment. Materials Research Letters, 2020, 8, 232-238.	4.1	14
93	Epoxidation of agricultural byproduct konjac fly powder and utilization in toughening and strengthening epoxy resin. Industrial Crops and Products, 2020, 146, 112161.	2.5	14
94	High-speed video graphic study of filament-core yarn spinning. Journal of the Textile Institute, 2010, 101, 242-252.	1.0	13
95	Optimising processing conditions of flax fabric reinforced Acrodur biocomposites. Journal of Composite Materials, 2014, 48, 3281-3292.	1.2	13
96	Microbond testing and finite element simulation of fibre-microballoon-epoxy ternary composites. Polymer Testing, 2018, 65, 450-458.	2.3	13
97	Load transfer of thiol-ended hyperbranched polymers to improve simultaneously strength and longation of CNTs/epoxy nanocomposites. European Polymer Journal, 2019, 120, 109254.	2.6	13
98	Helical shape linen artificial muscles responsive to water. Smart Materials and Structures, 2021, 30, 075031.	1.8	13
99	The Role of False Twist in Wrap Spinning. Textile Reseach Journal, 1994, 64, 41-48.	1.1	12
100	Biodegradable mulch fabric by surface fibrillation and entanglement of plant fibers. Textile Reseach Journal, 2013, 83, 1906-1917.	1.1	12
101	Self-Assembly of Amido-Ended Hyperbranched Polyester Films with a Highly Ordered Dendritic Structure. ACS Applied Materials & Interfaces, 2014, 6, 16375-16383.	4.0	12
102	Predicting tensile behaviors of short flax fiber-reinforced polymerâ€“matrix composites using a modified shear-lag model. Journal of Composite Materials, 2018, 52, 3701-3713.	1.2	12
103	Enhanced mechanical performance of CNT/Polymer composite yarns by Î³-irradiation. Fibers and Polymers, 2014, 15, 322-325.	1.1	11
104	Body armor for stab and spike protection, Part 2: a review of test methods. Textile Reseach Journal, 2019, 89, 3411-3430.	1.1	11
105	A multifunctional supercapacitor based on 2D nanosheets on a flexible carbon nanotube film. Dalton Transactions, 2020, 49, 9312-9321.	1.6	11
106	AIEE based â€œturn-onâ€•fluorescent sensor for Al3+ ions and induced tetraphenylethene self-assemblies. Organic Electronics, 2020, 85, 105820.	1.4	11
107	Electrical percolation of fibre mixtures. Applied Physics A: Materials Science and Processing, 2015, 121, 589-595.	1.1	10
108	Commingling Self-Twist Yarn with Filaments1. Textile Reseach Journal, 1994, 64, 563-569.	1.1	9

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109	Mechanisms of Yarn Twist Blockage. Textile Reseach Journal, 1998, 68, 135-140.	1.1	9
110	Morphology and tensile properties of bast fibers extracted from cotton stalks. Textile Reseach Journal, 2014, 84, 303-311.	1.1	9
111	Preparation of epoxyâ€ended hyperbranched polymers with precisely controllable degree of branching by thiolâ€ene Michael addition. Journal of Applied Polymer Science, 2016, 133, .	1.3	8
112	Amino-ended hyperbranched polyamide as template for tuning the morphology of self-assembled ZnS particles. Materials Chemistry and Physics, 2016, 184, 162-171.	2.0	8
113	The Dispersion of Pulp-Fiber in High-Density Polyethylene via Different Fabrication Processes. Polymers, 2018, 10, 122.	2.0	8
114	Synthesis and shape memory behavior of hyperbranched polyimides from thiol-ene click reaction. EXPRESS Polymer Letters, 2020, 14, 192-204.	1.1	8
115	A method of mobilizing and aligning carbon nanotubes and its use in gel spinning of composite fibres. Carbon, 2013, 57, 217-226.	5.4	7
116	Characteristics of carbon nanotube yarn structure unveiled by acoustic wave propagation. Carbon, 2015, 91, 163-170.	5.4	7
117	Dynamic modulus and strain wave velocity in ballistic fibre strands. Journal of Materials Science, 2016, 51, 5939-5947.	1.7	7
118	Synthesis of Recyclable Hyperbranched Polymers with High Efficiency of Promoting Degradation of Epoxy Resins. ChemistrySelect, 2018, 3, 4873-4883.	0.7	7
119	Tuning the morphology of melamine-induced tetraphenylethene self-assemblies for melamine detecting. Organic Electronics, 2020, 76, 105476.	1.4	7
120	Hyperbranched polymers containing epoxy and imide structure. Progress in Organic Coatings, 2021, 151, 106031.	1.9	7
121	Mechanism of Electrical Conductivity in Metallic Fiber-Based Yarns. Autex Research Journal, 2020, 20, 63-68.	0.6	7
122	Cotton-sliver Strength and Withdrawal-speed Limit. Journal of the Textile Institute, 1998, 89, 468-479.	1.0	6
123	High-performance wool blends. , 2009, , 284-307.		6
124	A novel method for preparation of epoxy resins using thiolâ€“ene click reaction. Journal of Applied Polymer Science, 2015, 132, .	1.3	6
125	Air Interlaced Self-Twist Yarns. Textile Reseach Journal, 1997, 67, 188-193.	1.1	5
126	Fiber blending. , 2018, , 59-79.		5

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127	Prestrained twistless flax yarn as reinforcement for polymerâ€matrix composites. Polymer Composites, 2020, 41, 930-938.	2.3	5
128	Influences of moisture absorption and chemical treatments on the resin flow characteristics of natural fibre nonwoven mats. Journal of the Textile Institute, 2012, 103, 1024-1030.	1.0	4
129	Improvement of filtration efficiency by fibre surface nanofibrillation. Journal of the Textile Institute, 2012, 103, 719-723.	1.0	4
130	Transition of electrical conductivity in carbon nanotube/silver particle composite buckypapers. Particuology, 2014, 17, 15-21.	2.0	4
131	Carbon nanotube yarns for electronic textiles. , 2015, , 55-72.		4
132	Influence of the molecular weights of amino-ended hyperbranched polyamide template on the morphology of self-assembled ZnS nanoparticles. Macromolecular Research, 2016, 24, 892-899.	1.0	4
133	Twist requirement for blended yarns. Journal of the Textile Institute, 2017, 108, 852-855.	1.0	4
134	Carbon nanotube yarn-based actuators. , 2020, , 271-291.		4
135	3D Spacer Fabric Structure for the Prevention and Care of Pressure Ulcers. IEEE Access, 2020, 8, 213512-213521.	2.6	4
136	Controllability on topological structures and properties of hyperbranched epoxy resins. Progress in Organic Coatings, 2022, 165, 106735.	1.9	4
137	Influence of vinyl-terminated hyperbranched polyester on performance of films obtained by UV-initiated thiolâ€“ene click reaction of A2Â+ÂB3 system. Journal of Coatings Technology Research, 2018, 15, 1049-1057.	1.2	3
138	Carbon nanotube yarn structures and properties. , 2020, , 137-182.		3
139	Yarn production from carbon nanotube forests. , 2020, , 13-36.		2
140	Fiber selection and substitution. , 2018, , 3-26.		1
141	Solution-spun carbon nanotube fibers. , 2020, , 61-69.		1