Menghe Miao

List of Publications by Year in Descending Order

141 papers	4,204 citations	33 h-index	59 g-index
145 ext. papers	4,886 ext. citations	5.5 avg, IF	6.18 L-index

#	Paper	IF	Citations
141	Controllability on topological structures and properties of hyperbranched epoxy resins. *Progress in Organic Coatings*, **2022**, 165, 106735	4.8	
140	High performance flexible supercapacitor based on metal-organic-framework derived CoSe2 nanosheets on carbon nanotube film. *Journal of Power Sources*, **2021**, 490, 229517	8.9	23
139	Helical shape linen artificial muscles responsive to water. *Smart Materials and Structures*, **2021**, 30, 075031	3.4	6
138	Hyperbranched polymers containing epoxy and imide structure. *Progress in Organic Coatings*, **2021**, 151, 106031	4.8	2
137	Closed-Loop Recycling of Both Resin and Fiber from High-Performance Thermoset Epoxy/Carbon Fiber Composites.. *ACS Macro Letters*, **2021**, 10, 1113-1118	6.6	16
136	The versatility of hyperbranched epoxy resins containing hexahydro-s-triazine on diglycidyl ether of bisphenol-A composites. *Composites Part B: Engineering*, **2020**, 196, 108109	10	15
135	Degradable and recyclable bio-based thermoset epoxy resins. *Green Chemistry*, **2020**, 22, 4187-4198	10	28
134	A multifunctional supercapacitor based on 2D nanosheets on a flexible carbon nanotube film. *Dalton Transactions*, **2020**, 49, 9312-9321	4.3	8
133	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	3.9	11
132	Flexible Supercapacitors Fabricated by Growing Porous NiCo2O4In Situ on a Carbon Nanotube Film Using a Hyperbranched Polymer Template. *ACS Applied Energy Materials*, **2020**, 3, 4043-4050	6.1	4
131	AIEE based "turn-on" fluorescent sensor for Al3+ ions and induced tetraphenylethene self-assemblies. *Organic Electronics*, **2020**, 85, 105820	3.5	4
130	Water-responsive artificial muscles from commercial viscose fibers without chemical treatment. *Materials Research Letters*, **2020**, 8, 232-238	7.4	6
129	Mechanism of Electrical Conductivity in Metallic Fiber-Based Yarns. *Autex Research Journal*, **2020**, 20, 63-68	1	5
128	Epoxidation of agricultural byproduct konjac fly powder and utilization in toughening and strengthening epoxy resin. *Industrial Crops and Products*, **2020**, 146, 112161	5.9	7
127	Prestrained twistless flax yarn as reinforcement for polymer-matrix composites. *Polymer Composites*, **2020**, 41, 930-938	3	2
126	Construction of extensible and flexible supercapacitors from covalent organic framework composite membrane electrode. *Chemical Engineering Journal*, **2020**, 387, 124071	14.7	23
125	Synthesis and shape memory behavior of hyperbranched polyimides from thiol-ene click reaction. *EXPRESS Polymer Letters*, **2020**, 14, 192-204	3.4	3

124	Recyclable thermoset hyperbranched polymers containing reversible hexahydro-s-triazine. *Nature Sustainability*, **2020**, 3, 29-34	22.1	48
123	Carbon nanotube yarn-based actuators **2020**, 271-291		3
122	Yarn production from carbon nanotube forests **2020**, 13-36		2
121	Preparation of Epoxy Resins with Excellent Comprehensive Performance by Thiol-Epoxy Click Reaction. *Progress in Organic Coatings*, **2020**, 139, 105436	4.8	8
120	Solution-spun carbon nanotube fibers **2020**, 61-69		0
119	3D Spacer Fabric Structure for the Prevention and Care of Pressure Ulcers. *IEEE Access*, **2020**, 8, 213512-213521	3.5	
118	Tuning the morphology of melamine-induced tetraphenylethene self-assemblies for melamine detecting. *Organic Electronics*, **2020**, 76, 105476	3.5	2
117	Carbon nanotube yarn structures and properties **2020**, 137-182		2
116	A bio-based hyperbranched flame retardant for epoxy resins. *Chemical Engineering Journal*, **2020**, 381, 122719	14.7	86
115	Synthesis of degradable hyperbranched epoxy resins with high tensile, elongation, modulus and low-temperature resistance. *Composites Part B: Engineering*, **2020**, 192, 108005	10	23
114	Simultaneous Improvement on Strength, Modulus, and Elongation of Carbon Nanotube Films Functionalized by Hyperbranched Polymers. *ACS Applied Materials & Interfaces*, **2019**, 11, 36278-36285	9.5	26
113	High sensitivity knitted fabric bi-directional pressure sensor based on conductive blended yarn. *Smart Materials and Structures*, **2019**, 28, 035017	3.4	13
112	Preparation of nanocomposites with epoxy resins and thiol-functionalized carbon nanotubes by thiol-ene click reaction. *Polymer Testing*, **2019**, 77, 105912	4.5	10
111	Tuning morphology and functionality of two-component self-assembly induced by H-bond and □□ stacking. *Dyes and Pigments*, **2019**, 170, 107586	4.6	11
110	Synthesis of renewable and self-curable thermosetting hyperbranched polymers by a click reaction. *Progress in Organic Coatings*, **2019**, 134, 189-196	4.8	9
109	Functionalized carbon nanotube films by thiol-ene click reaction. *Applied Surface Science*, **2019**, 486, 144-152	6.7	15
108	Flexible supercapacitors based on carbon nanotube-MnO2 nanocomposite film electrode. *Chemical Engineering Journal*, **2019**, 371, 145-153	14.7	108
107	Load transfer of thiol-ended hyperbranched polymers to improve simultaneously strength and longation of CNTs/epoxy nanocomposites. *European Polymer Journal*, **2019**, 120, 109254	5.2	8

106	Monitoring mitochondrial ATP in live cells: An ATP multisite-binding fluorescence turn-on probe. *Dyes and Pigments*, **2019**, 163, 559-563	4.6	11
105	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	4.8	8
104	Body armor for stab and spike protection, Part 2: a review of test methods. *Textile Reseach Journal*, **2019**, 89, 3411-3430	1.7	7
103	Controllability of epoxy equivalent weight and performance of hyperbranched epoxy resins. *Composites Part B: Engineering*, **2019**, 160, 615-625	10	36
102	A comparison of the twisted and untwisted structures for one-dimensional carbon nanotube assemblies. *Materials and Design*, **2018**, 146, 20-27	8.1	20
101	Predicting tensile behaviors of short flax fiber-reinforced polymer matrix composites using a modified shear-lag model. *Journal of Composite Materials*, **2018**, 52, 3701-3713	2.7	8
100	Influence of vinyl-terminated hyperbranched polyester on performance of films obtained by UV-initiated thiol ene click reaction of A2 + B3 system **2018**, 15, 1049-1057		3
99	Finite element models of natural fibers and their composites: A review. *Journal of Reinforced Plastics and Composites*, **2018**, 37, 617-635	2.9	38
98	Microbond testing and finite element simulation of fibre-microballoon-epoxy ternary composites. *Polymer Testing*, **2018**, 65, 450-458	4.5	8
97	Novel core/shell CoSe2@PPy nanoflowers for high-performance fiber asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 10361-10369	13	54
96	Optimizing twisted yarn structure for natural fiber-reinforced polymeric composites. *Journal of Composite Materials*, **2018**, 52, 373-381	2.7	13
95	Body armor for stab and spike protection, Part 1: Scientific literature review. *Textile Reseach Journal*, **2018**, 88, 812-832	1.7	36
94	Synthesis and Degradation Mechanism of Self-Cured Hyperbranched Epoxy Resins from Natural Citric Acid. *ACS Omega*, **2018**, 3, 8141-8148	3.9	14
93	The Dispersion of Pulp-Fiber in High-Density Polyethylene via Different Fabrication Processes. *Polymers*, **2018**, 10,	4.5	5
92	Fiber selection and substitution **2018**, 3-26		1
91	Fiber blending **2018**, 59-79		3
90	Mechanical and abrasive wear performance of woven flax fabric/polyoxymethylene composites. *Wear*, **2018**, 414-415, 9-20	3.5	15
89	Simultaneous toughening and strengthening of diglycidyl ether of bisphenol-a using epoxy-ended hyperbranched polymers obtained from thiol-ene click reaction. *Polymer Engineering and Science*, **2018**, 58, 1703-1709	2.3	11

88	Multi-scale constitutive modeling of natural fiber fabric reinforced composites. *Composites Part A: Applied Science and Manufacturing*, **2018**, 115, 383-396	8.4	10
87	Synthesis of Recyclable Hyperbranched Polymers with High Efficiency of Promoting Degradation of Epoxy Resins. *ChemistrySelect*, **2018**, 3, 4873-4883	1.8	6
86	Moisture-Responsive Natural Fiber Coil-Structured Artificial Muscles. *ACS Applied Materials & Interfaces*, **2018**, 10, 32256-32264	9.5	32
85	Wearable supercapacitors based on conductive cotton yarns. *Journal of Materials Science*, **2018**, 53, 14586-14597	4.3	18
84	Synthesis of epoxy-ended hyperbranched polyesters with reinforcing and toughening function for diglycidyl ether of bisphenol-A. *Polymer Composites*, **2018**, 39, E2046-E2055	3	6
83	Twist requirement for blended yarns. *Journal of the Textile Institute*, **2017**, 108, 852-855	1.5	4
82	Flexible Asymmetric Threadlike Supercapacitors Based on NiCo Se Nanosheet and NiCo O /Polypyrrole Electrodes. *ChemSusChem*, **2017**, 10, 1427-1435	8.3	43
81	TiO2 crystalline structure and electrochemical performance in two-ply yarn CNT/TiO2 asymmetric supercapacitors. *Journal of Materials Science*, **2017**, 52, 7733-7743	4.3	18
80	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	8.4	15
79	Fiber-shaped Supercapacitor and Electrocatalyst Containing of Multiple Carbon Nanotube Yarns and One Platinum Wire. *Electrochimica Acta*, **2017**, 245, 69-78	6.7	16
78	Fabrication of Supercapacitors from NiCo2O4 Nanowire/Carbon-Nanotube Yarn for Ultraviolet Photodetectors and Portable Electronics. *Energy Technology*, **2017**, 5, 1449-1456	3.5	22
77	Synthesis of a Degradable High-Performance Epoxy-Ended Hyperbranched Polyester. *ACS Omega*, **2017**, 2, 1350-1359	3.9	29
76	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	8.3	13
75	High sensitivity knitted fabric strain sensors. *Smart Materials and Structures*, **2016**, 25, 105008	3.4	30
74	Solvent-Tunable Microstructures of Aligned Carbon Nanotube Films. *Advanced Materials Interfaces*, **2016**, 3, 1600352	4.6	20
73	Amino-ended hyperbranched polyamide as template for tuning the morphology of self-assembled ZnS particles. *Materials Chemistry and Physics*, **2016**, 184, 162-171	4.4	8
72	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	8.9	53
71	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	13	36

70	The role of twist in dry spun carbon nanotube yarns. *Carbon*, **2016**, 96, 819-826	10.4	33
69	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	1.9	4
68	Dynamic modulus and strain wave velocity in ballistic fibre strands. *Journal of Materials Science*, **2016**, 51, 5939-5947	4.3	6
67	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	6.7	17
66	Preparation of epoxy-ended hyperbranched polymers with precisely controllable degree of branching by thiol-ene Michael addition. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	6
65	Highly efficient preparation of hyperbranched epoxy resins by UV-initiated thiol-ene click reaction. *Progress in Organic Coatings*, **2016**, 101, 178-185	4.8	25
64	Characteristics of carbon nanotube yarn structure unveiled by acoustic wave propagation. *Carbon*, **2015**, 91, 163-170	10.4	6
63	Carbon nanotube yarns for electronic textiles **2015**, 55-72		2
62	Prestressed natural fibre spun yarn reinforced polymer-matrix composites. *Composites Part A: Applied Science and Manufacturing*, **2015**, 75, 68-76	8.4	21
61	Microstructure and mechanical properties of z-pinned carbon fiber reinforced aluminum alloy composites. *Materials and Design*, **2015**, 86, 872-877	8.1	29
60	High Performance Carbon Nanotube Yarn Supercapacitors with a Surface-Oxidized Copper Current Collector. *ACS Applied Materials & Interfaces*, **2015**, 7, 25835-42	9.5	33
59	High-performance two-ply yarn supercapacitors based on carbon nanotube yarns dotted with Co3 O4 and NiO nanoparticles. *Small*, **2015**, 11, 854-61	11	194
58	A novel method for preparation of epoxy resins using thiol□ne click reaction. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	6
57	Electrical percolation of fibre mixtures. *Applied Physics A: Materials Science and Processing*, **2015**, 121, 589-595	2.6	10
56	Enhanced mechanical performance of CNT/Polymer composite yarns by □rradiation. *Fibers and Polymers*, **2014**, 15, 322-325	2	8
55	Flexible, high performance Two-Ply Yarn Supercapacitors based on irradiated Carbon Nanotube Yarn and PEDOT/PSS. *Electrochimica Acta*, **2014**, 127, 433-438	6.7	53
54	Morphology and tensile properties of bast fibers extracted from cotton stalks. *Textile Reseach Journal*, **2014**, 84, 303-311	1.7	8
53	Asymmetric carbon nanotube-MnO□two-ply yarn supercapacitors for wearable electronics. *Nanotechnology*, **2014**, 25, 135401	3.4	74

52	Self-assembly of amido-ended hyperbranched polyester films with a highly ordered dendritic structure. *ACS Applied Materials & Interfaces*, **2014**, 6, 16375-83	9.5	11
51	Metallic conductivity transition of carbon nanotube yarns coated with silver particles. *Nanotechnology*, **2014**, 25, 275702	3.4	16
50	Gamma-irradiated carbon nanotube yarn as substrate for high-performance fiber supercapacitors. *ACS Applied Materials & Interfaces*, **2014**, 6, 2553-60	9.5	50
49	Core-spun carbon nanotube yarn supercapacitors for wearable electronic textiles. *ACS Nano*, **2014**, 8, 4571-9	16.7	206
48	Effect of MWCNT dimension on the electrical percolation and mechanical properties of poly(vinylidenefluoride-hexafluoropropylene) based nanocomposites. *Synthetic Metals*, **2014**, 191, 99-103	3.6	34
47	Effects of humidity conditions at fabrication on the interfacial shear strength of flax/unsaturated polyester composites. *Composites Part B: Engineering*, **2014**, 60, 186-192	10	44
46	Transition of electrical conductivity in carbon nanotube/silver particle composite buckypapers. *Particuology*, **2014**, 17, 15-21	2.8	3
45	Optimising processing conditions of flax fabric reinforced Acrodur biocomposites. *Journal of Composite Materials*, **2014**, 48, 3281-3292	2.7	11
44	Optimising fibre alignment in twisted yarns for natural fibre composites. *Journal of Composite Materials*, **2014**, 48, 2993-3002	2.7	17
43	A comparative study of electrodeposition techniques on the microstructure and property of nanocrystalline cobalt deposit. *Materials Chemistry and Physics*, **2013**, 139, 663-673	4.4	22
42	Yarn spun from carbon nanotube forests: Production, structure, properties and applications. *Particuology*, **2013**, 11, 378-393	2.8	86
41	A method of mobilizing and aligning carbon nanotubes and its use in gel spinning of composite fibres. *Carbon*, **2013**, 57, 217-226	10.4	5
40	High-performance two-ply yarn supercapacitors based on carbon nanotubes and polyaniline nanowire arrays. *Advanced Materials*, **2013**, 25, 1494-8	24	514
39	Biodegradable mulch fabric by surface fibrillation and entanglement of plant fibers. *Textile Reseach Journal*, **2013**, 83, 1906-1917	1.7	11
38	Production, structure and properties of twistless carbon nanotube yarns with a high density sheath. *Carbon*, **2012**, 50, 4973-4983	10.4	30
37	Improvement of filtration efficiency by fibre surface nanofibrillation. *Journal of the Textile Institute*, **2012**, 103, 719-723	1.5	4
36	Chitin nanocrystals grafted with poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and their effects on thermal behavior of PHBV. *Carbohydrate Polymers*, **2012**, 87, 784-789	10.3	54
35	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	1.5	4

34	Permeability anisotropy of flax nonwoven mats in vacuum-assisted resin transfer molding. *Journal of the Textile Institute*, **2011**, 102, 612-620	1.5	17
33	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	8.4	31
32	Highly aligned flax/polypropylene nonwoven preforms for thermoplastic composites. *Composites Science and Technology*, **2011**, 71, 1713-1718	8.6	42
31	Electrical conductivity of pure carbon nanotube yarns. *Carbon*, **2011**, 49, 3755-3761	10.4	168
30	Effect of gamma-irradiation on the mechanical properties of carbon nanotube yarns. *Carbon*, **2011**, 49, 4940-4947	10.4	84
29	High-speed video graphic study of filament-core yarn spinning. *Journal of the Textile Institute*, **2010**, 101, 242-252	1.5	12
28	Commingled natural fibre/polypropylene wrap spun yarns for structured thermoplastic composites. *Composites Science and Technology*, **2010**, 70, 130-135	8.6	94
27	Poisson's ratio and porosity of carbon nanotube dry-spun yarns. *Carbon*, **2010**, 48, 2802-2811	10.4	114
26	High-performance wool blends **2009**, 284-307		5
25	Influence of moisture absorption on the interfacial strength of bamboo/vinyl ester composites. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 2013-2019	8.4	170
24	Conversion of Natural Fibres into Structural Composites. *Journal of Textile Engineering*, **2008**, 54, 165-177	0.3	30
23	An Experimental Study of the Needled Nonwoven Process: Part I: Fiber Geometry Before Needle Punching. *Textile Reseach Journal*, **2004**, 74, 329-332	1.7	13
22	An Experimental Study of the Needled Nonwoven Process Part II: Fiber Transport by Barbed Needles. *Textile Reseach Journal*, **2004**, 74, 394-398	1.7	24
21	An Experimental Study of the Needled Nonwoven Process: Part III: Fiber Damage Due to Needling. *Textile Reseach Journal*, **2004**, 74, 485-490	1.7	13
20	Fabric-bagging: Stress Distribution in Isotropic and Anisotropic Fabrics. *Journal of the Textile Institute*, **2000**, 91, 563-576	1.5	22
19	Low Temperature Plasma on Wool Substrates: The Effect of the Nature of the Gas. *Textile Reseach Journal*, **1999**, 69, 407-416	1.7	52
18	The effect of low-temperature plasma on the chrome dyeing of wool fibre. *Journal of Materials Processing Technology*, **1998**, 82, 122-126	5.3	33
17	Surface properties of low-temperature plasma treated wool fabrics. *Journal of Materials Processing Technology*, **1998**, 83, 180-184	5.3	75

16	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	1.7	21
15	Mechanisms of Yarn Twist Blockage. *Textile Reseach Journal*, **1998**, 68, 135-140	1.7	7
14	Cotton-sliver Strength and Withdrawal-speed Limit. *Journal of the Textile Institute*, **1998**, 89, 468-479	1.5	6
13	Air Interlaced Self-Twist Yarns. *Textile Reseach Journal*, **1997**, 67, 188-193	1.7	5
12	Reducing Yarn Hairiness with an Air-Jet Attachment During Winding. *Textile Reseach Journal*, **1997**, 67, 481-485	1.7	30
11	Studies of JetRing Spinning Part I: Reducing Yarn Hairiness with the JetRing. *Textile Reseach Journal*, **1997**, 67, 253-258	1.7	53
10	Influence of Spinning Parameters on Core Yarn Sheath Slippage and Other Properties. *Textile Reseach Journal*, **1996**, 66, 676-684	1.7	35
9	Air Interlaced Yarn Structure and Properties. *Textile Reseach Journal*, **1995**, 65, 433-440	1.7	23
8	Commingling Self-Twist Yarn with Filaments1. *Textile Reseach Journal*, **1994**, 64, 563-569	1.7	8
7	The Role of False Twist in Wrap Spinning. *Textile Reseach Journal*, **1994**, 64, 41-48	1.7	10
6	Yarn Twisting Dynamics. *Textile Reseach Journal*, **1993**, 63, 150-158	1.7	35
5	Influence of Machine Variables on Two-Strand Yarn Spinning Geometry. *Textile Reseach Journal*, **1993**, 63, 116-120	1.7	13
4	The Insertion of Twist 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	1.5	27
3	The Insertion of Twist 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	1.5	32
2	Closed-Loop Recyclable Fully Bio-Based Epoxy Vitrimers from Ferulic Acid-Derived Hyperbranched Epoxy Resin. *Macromolecules*,	5.5	9
1	High-performance flexible self-powered strain sensor based on carbon nanotube/ZnSe/CoSe2 nanocomposite film electrodes. *Nano Research*,1	10	5