Mingzhen Xu

List of Publications by Citations

72 papers	971 citations	17 h-index	25 g-index
72 ext. papers	1,123 ext. citations	3.8 avg, IF	4.54 L-index

#	Paper	IF	Citations
72	Dramatic mechanical and thermal increments of thermoplastic composites by multi-scale synergetic reinforcement: Carbon fiber and graphene nanoplatelet. *Materials & Design*, **2013**, 44, 74-80		67
71	Design of low temperature self-cured phthalonitrile-based polymers for advanced glass fiber composite laminates. *Journal of Materials Science*, **2013**, 48, 8108-8116	4.3	42
70	Copolymerizing behavior and processability of benzoxazine/epoxy systems and their applications for glass fiber composite laminates. *Journal of Applied Polymer Science*, **2013**, 128, 1176-1184	2.9	42
69	Phthalonitrile-based resin for advanced composite materials: Curing behavior studies. *Polymer Testing*, **2016**, 55, 38-43	4.5	40
68	Understanding of the polymerization mechanism of the phthalonitrile-based resins containing benzoxazine and their thermal stability. *Polymer*, **2018**, 143, 28-39	3.9	39
67	Mechanical and thermal enhancements of benzoxazine-based GF composite laminated by in situ reaction with carboxyl functionalized CNTs. *Journal of Applied Polymer Science*, **2013**, 129, 2629-2637	2.9	35
66	Modification on glass fiber surface and their improved properties of fiber-reinforced composites via enhanced interfacial properties. *Composites Part B: Engineering*, **2019**, 177, 107419	10	28
65	Fe□phthalocyanine oligomer/Fe3O4 nano-hybrid particles and their effect on the properties of polyarylene ether nitriles magnetic nanocomposites. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 375, 245-251	5.1	27
64	Studied on mechanical, thermal and dielectric properties of BPh/PEN-OH copolymer. *Composites Part B: Engineering*, **2016**, 106, 294-299	10	26
63	Enhanced thermal conductivity of benzoxazine nanocomposites based on non-covalent functionalized hexagonal boron nitride. *Composites Science and Technology*, **2019**, 182, 107741	8.6	25
62	Chemically bonded iron carbonyl for magnetic composites based on phthalonitrile polymers. *Polymer International*, **2011**, 60, 414-421	3.3	25
61	Thermal Stability of Allyl-Functional Phthalonitriles-Containing Benzoxazine/Bismaleimide Copolymers and Their Improved Mechanical Properties. *Polymers*, **2018**, 10,	4.5	24
60	Preparation and properties of bisphenol A-based bis-phthalonitrile composite laminates. *Journal of Applied Polymer Science*, **2013**, 129, 2621-2628	2.9	24
59	Synthesis, polymerization, and properties of the allyl-functional phthalonitrile. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	22
58	Iron phthalocyanine oligomer/Fe3O4 hybrid microspheres and their microwave absorption property. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 2174-2178	2.8	22
57	Design of h-BN-Filled Cyanate/Epoxy Thermal Conductive Composite with Stable Dielectric Properties. *Macromolecular Research*, **2018**, 26, 602-608	1.9	20
56	Designing and Preparation of Fiber-Reinforced Composites with Enhanced Interface Adhesion. *Polymers*, **2018**, 10,	4.5	18

55	Copolymerization of self-catalyzed phthalonitrile with bismaleimide toward high-temperature-resistant polymers with improved processability. *High Performance Polymers*, **2016**, 28, 895-907	1.6	17
54	Curing behaviors of cyanate ester/epoxy copolymers and their dielectric properties. *High Performance Polymers*, **2017**, 29, 1175-1184	1.6	17
53	Morphological, electrical, thermal and mechanical properties of phthalocyanine/multi-wall carbon nanotubes nanocomposites prepared by masterbatch dilution. *Journal of Polymer Research*, **2012**, 19, 1	2.7	17
52	Secondary dispersion of BaTiO3 for the enhanced mechanical properties of the Poly (arylene ether nitrile)-based composite laminates. *Polymer Testing*, **2018**, 66, 164-171	4.5	15
51	Self-cured phthalonitrile resin via multistage polymerization mediated by allyl and benzoxazine functional groups. *High Performance Polymers*, **2016**, 28, 1161-1171	1.6	15
50	Organic/inorganic hybrid consisting of supportive poly(arylene ether nitrile) microspheres and photocatalytic titanium dioxide nanoparticles for the adsorption and photocatalysis of methylene blue. *Composites Part B: Engineering*, **2019**, 177, 107414	10	14
49	Influence of Fe3O4/Fe-phthalocyanine decorated graphene oxide on the microwave absorbing performance. *Journal of Magnetism and Magnetic Materials*, **2016**, 399, 81-87	2.8	14
48	The preparation and wide frequency microwave absorbing properties of tri-substituted-bisphthalonitrile/Fe3O4 magnetic hybrid microspheres. *Journal of Magnetism and Magnetic Materials*, **2014**, 349, 15-20	2.8	14
47	Designing a phthalonitrile/benzoxazine blend for the advanced GFRP composite materials. *Chinese Journal of Polymer Science (English Edition)*, **2018**, 36, 106-112	3.5	14
46	Preparation and properties of bisphenol A-based bisphthalonitrile polymers. *High Performance Polymers*, **2014**, 26, 3-11	1.6	13
45	Effect of elevated annealing temperature on the morphology, microstructure, conductivity and microwave absorption properties of phthalocyanine polymer. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 2610-2618	2.1	13
44	Facile preparation and excellent microwave absorption properties of an RGO/Co0.33Ni0.67 lightweight absorber. *RSC Advances*, **2017**, 7, 43831-43838	3.7	13
43	Sulfonated poly(arylene ether nitrile)s containing cross-linkable nitrile groups for proton exchange membranes. *Solid State Ionics*, **2018**, 316, 110-117	3.3	12
42	Preparation, magnetic and electromagnetic properties of organic magnetic prepolymer containing copper phthalocyanine ring. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 2696-2700	2.8	12
41	Designing a low-temperature curable phenolic/benzoxazine-functionalized phthalonitrile copolymers for high performance composite laminates. *Journal of Polymer Research*, **2017**, 24, 1	2.7	11
40	Curing behaviors and properties of allyl- and benzoxazine-functional phthalonitrile with improved processability. *Journal of Polymer Research*, **2016**, 23, 1	2.7	11
39	The Adsorption of Methylene Blue by an Amphiphilic Block Co-Poly(Arylene Ether Nitrile) Microsphere-Based Adsorbent: Kinetic, Isotherm, Thermodynamic and Mechanistic Studies. *Nanomaterials*, **2019**, 9,	5.4	11
38	One-step solvothermal syntheses and microwave electromagnetic properties of organic magnetic resin/Fe3O4 hybrid nanospheres. *Applied Surface Science*, **2012**, 258, 6705-6711	6.7	11

37	Improved thermal stability and mechanical properties of benzoxazine-based composites with the enchantment of nitrile. *Polymer Testing*, **2019**, 74, 127-137	4.5	11
36	Curing behaviors and performance of a carboxyl-terminated butadiene acrylonitrile rubber/bisphthalonitrile resin system. *High Performance Polymers*, **2016**, 28, 581-590	1.6	10
35	Benzoxazine Containing Fluorinated Aromatic Ether Nitrile Linkage: Preparation, Curing Kinetics and Dielectric Properties. *Polymers*, **2019**, 11,	4.5	10
34	Rose thorns-like polymer micro/nanofibers via electrospinning and controlled temperature-induced self-assembly. *European Polymer Journal*, **2011**, 47, 1563-1568	5.2	10
33	Curing behavior and processability of BMI/3-APN system for advanced glass fiber composite laminates. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	10
32	Design of the phthalonitrile-based composite laminates by improving the interfacial compatibility and their enhanced properties. *Journal of Applied Polymer Science*, **2018**, 135, 45881	2.9	10
31	Significant improvement of thermal oxidative mechanical properties in phthalonitrile GFRP composites by introducing microsilica as complementary reinforcement. *Composites Part B: Engineering*, **2018**, 155, 425-430	10	10
30	Nitrile functionalized Al2O3 reinforced polyarylene ether nitriles terminated with phthalonitrile composites. *Journal of Polymer Research*, **2014**, 21, 1	2.7	9
29	Effect of ortho-diallyl bisphenol A on the processability of phthalonitrile-based resin and their fiber-reinforced laminates. *Polymer Engineering and Science*, **2016**, 56, 150-157	2.3	9
28	Synergistic Effects of Functional CNTs and h-BN on Enhanced Thermal Conductivity of Epoxy/Cyanate Matrix Composites. *Nanomaterials*, **2018**, 8,	5.4	9
27	Detection of Cu2+ metals by luminescent sensor based on sulfonated poly(arylene ether nitrile)/ metal-organic frameworks. *Materials Today Communications*, **2018**, 16, 258-263	2.5	8
26	Novel Fe3O4/phthalonitrile alkyl-containing hybrid microspheres and their microwave absorption application in phthalonitrile composites. *Journal of Magnetism and Magnetic Materials*, **2014**, 371, 20-28	2.8	7
25	Synthesis and microwave absorption properties of sandwich-type CNTs/Fe3O4/RGO composite with Fe3O4 as a bridge. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 15043-15049	2.1	7
24	Copolymerizing behavior and processability of allyl-functional bisphthalonitrile/bismaleimide system. *Polymer Composites*, **2017**, 38, 1591-1599	3	6
23	Phthalonitrile-terminated sulfonated poly(arylene ether nitrile)s for direct methanol fuel cells (DMFCs) application. *Ionics*, **2017**, 23, 1035-1041	2.7	6
22	Effects of Eu2O3 doping on the microwave electromagnetic performances of ferrocenyl organic magnetic material. *Materials Letters*, **2012**, 78, 162-165	3.3	6
21	The effect of polyarylene ether nitriles structures on their foaming behaviors and dielectric properties of the films. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 1317-1326	2.1	5
20	Simple surface nanocrystallization approach to prepare Fe3O4/Fe-phthalocyanine@Nd2Fe14B composite as an excellent absorber. *Journal of Alloys and Compounds*, **2018**, 765, 92-97	5.7	5

19	Design and properties of Poly(arylene ether nitriles) composites via incorporation of Poly(arylene ether nitriles) grafted Fe3O4/Fe-phthalocyanine hybrid submicron-spheres. *Composites Part B: Engineering*, **2019**, 176, 107202	10	5
18	Graphene nanoplatelet-reinforced semi-crystal poly(arylene ether nitrile) nanocomposites prepared by the twin-screw extrusion. *Polymer Composites*, **2014**, 35, 404-411	3	5
17	Curing reaction and properties of a kind of fluorinated phthalonitrile containing benzoxazine. *European Polymer Journal*, **2021**, 159, 110715	5.2	5
16	Micro/Mesoporous Fe□/Fe-Phthalocyanine Microspheres and Effects of Their Surface Morphology on the Crystallization and Properties of Poly(Arylene Ether Nitrile) Composites. *Materials*, **2018**, 11,	3.5	4
15	The properties (rheological, dielectric, and mechanical) and microtopography of spherical fullerene-filled poly(arylene ether nitrile) nanocomposites. *Journal of Applied Polymer Science*, **2014** , 131, n/a-n/a	2.9	4
14	Fabrication and Electromagnetic Properties of Conjugated NH2-CuPc@Fe3O4. *Journal of Electronic Materials*, **2017**, 46, 5608-5618	1.9	4
13	Investigation on phenolphthalein and bisphenol AF based Poly(arylene ether nitrile) copolymers: Preparation, thermal, mechanical and dielectric properties. *Polymer Testing*, **2021**, 96, 107091	4.5	4
12	Surface modification of aramid fiber by crystalline polyarylene ether nitrile sizing for improving interfacial adhesion with polyarylene ether nitrile. *Composites Part B: Engineering*, **2021**, 217, 108917	10	4
11	Investigation on curing reaction of phthalonitrile resin with nanosilica and the properties of their glass fiber-reinforced composites. *Journal of Applied Polymer Science*, **2021**, 138, 49777	2.9	4
10	Crystallization behaviors and properties of poly (arylene ether nitrile) nanocomposites induced by aluminum oxide and multi-walled carbon nanotubes. *Journal of Materials Science*, **2018**, 53, 14361-14374	4.3	3
9	Fe3O4/FePc/Pc magnetic composites with high mechanical properties and thermal stabilities by in situ preparation. *Journal of Polymer Research*, **2013**, 20, 1	2.7	3
8	Understanding the curing behaviors and properties of phthalonitrile containing benzoxazine with a new type of aniline curing agent. *Polymer Testing*, **2022**, 107, 107487	4.5	2
7	Fabrication of phthalonitrile-based copper-clad laminates and their application properties: Thermo-stability and dielectric properties. *Advanced Industrial and Engineering Polymer Research*, **2020**, 3, 194-201	7.3	1
6	Iron phthalocyanine coatings on the surface of carbon fibers and their improved interfacial interactions with poly(arylene ether)nitrile. *Journal of Applied Polymer Science*, **2018**, 135, 46466	2.9	1
5	Enhanced properties of phthalonitrile-terminated polyarylene ether nitriles embedded with hybrid MWCNT□oehmite nanocomposites. *Polymer Composites*, **2015**, 36, 2193-2202	3	1
4	Production of empty and iron-filled multiwalled carbon nanotubes from iron□phthalocyanine polymer and their electromagnetic properties. *Journal of Materials Science: Materials in Electronics*, **2012**, 23, 921-927	2.1	1
3	High performance phthalonitrile/phenolic epoxy (PNP/PEP) copolymers and their GFRP composites. *IOP Conference Series: Earth and Environmental Science*, **2018**, 170, 042012	0.3	1
2	The synthesis and characterization of a new cross-linkable copolymerization poly(arylene ether sulfone) End-Capped with Phthalonitrile. *IOP Conference Series: Earth and Environmental Science*, **2018**, 170, 052009	0.3	1

1 Preparation of poly (arylene ether nitrile)/NzdFeB composite film with excellent thermal properties and tensile strength. *IOP Conference Series: Materials Science and Engineering*, **2017**, 274, 012089 04