

Mingzhen Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Understanding the curing behaviors and properties of phthalonitrile containing benzoxazine with a new type of aniline curing agent. <i>Polymer Testing</i> , 2022 , 107, 107487	4.5	2
71	Investigation on phenolphthalein and bisphenol AF based Poly(arylene ether nitrile) copolymers: Preparation, thermal, mechanical and dielectric properties. <i>Polymer Testing</i> , 2021 , 96, 107091	4.5	4
70	Surface modification of aramid fiber by crystalline polyarylene ether nitrile sizing for improving interfacial adhesion with polyarylene ether nitrile. <i>Composites Part B: Engineering</i> , 2021 , 217, 108917	10	4
69	Investigation on curing reaction of phthalonitrile resin with nanosilica and the properties of their glass fiber-reinforced composites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49777	2.9	4
68	Curing reaction and properties of a kind of fluorinated phthalonitrile containing benzoxazine. <i>European Polymer Journal</i> , 2021 , 159, 110715	5.2	5
67	Fabrication of phthalonitrile-based copper-clad laminates and their application properties: Thermo-stability and dielectric properties. <i>Advanced Industrial and Engineering Polymer Research</i> , 2020 , 3, 194-201	7.3	1
66	Organic/inorganic hybrid consisting of supportive poly(arylene ether nitrile) microspheres and photocatalytic titanium dioxide nanoparticles for the adsorption and photocatalysis of methylene blue. <i>Composites Part B: Engineering</i> , 2019 , 177, 107414	10	14
65	Modification on glass fiber surface and their improved properties of fiber-reinforced composites via enhanced interfacial properties. <i>Composites Part B: Engineering</i> , 2019 , 177, 107419	10	28
64	Benzoxazine Containing Fluorinated Aromatic Ether Nitrile Linkage: Preparation, Curing Kinetics and Dielectric Properties. <i>Polymers</i> , 2019 , 11,	4.5	10
63	Enhanced thermal conductivity of benzoxazine nanocomposites based on non-covalent functionalized hexagonal boron nitride. <i>Composites Science and Technology</i> , 2019 , 182, 107741	8.6	25
62	Design and properties of Poly(arylene ether nitriles) composites via incorporation of Poly(arylene ether nitriles) grafted Fe ₃ O ₄ /Fe-phthalocyanine hybrid submicron-spheres. <i>Composites Part B: Engineering</i> , 2019 , 176, 107202	10	5
61	The Adsorption of Methylene Blue by an Amphiphilic Block Co-Poly(Arylene Ether Nitrile) Microsphere-Based Adsorbent: Kinetic, Isotherm, Thermodynamic and Mechanistic Studies. <i>Nanomaterials</i> , 2019 , 9,	5.4	11
60	Improved thermal stability and mechanical properties of benzoxazine-based composites with the enchantment of nitrile. <i>Polymer Testing</i> , 2019 , 74, 127-137	4.5	11
59	Design of h-BN-Filled Cyanate/Epoxy Thermal Conductive Composite with Stable Dielectric Properties. <i>Macromolecular Research</i> , 2018 , 26, 602-608	1.9	20
58	Understanding of the polymerization mechanism of the phthalonitrile-based resins containing benzoxazine and their thermal stability. <i>Polymer</i> , 2018 , 143, 28-39	3.9	39
57	Iron phthalocyanine coatings on the surface of carbon fibers and their improved interfacial interactions with poly(arylene ether)nitrile. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46466	2.9	1
56	Sulfonated poly(arylene ether nitrile)s containing cross-linkable nitrile groups for proton exchange membranes. <i>Solid State Ionics</i> , 2018 , 316, 110-117	3.3	12

55	Secondary dispersion of BaTiO ₃ for the enhanced mechanical properties of the Poly (arylene ether nitrile)-based composite laminates. <i>Polymer Testing</i> , 2018 , 66, 164-171	4.5	15
54	The effect of polyarylene ether nitriles structures on their foaming behaviors and dielectric properties of the films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 1317-1326	2.1	5
53	Simple surface nanocrystallization approach to prepare Fe ₃ O ₄ /Fe-phthalocyanine@Nd ₂ Fe ₁₄ B composite as an excellent absorber. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 92-97	5.7	5
52	Thermal Stability of Allyl-Functional Phthalonitriles-Containing Benzoxazine/Bismaleimide Copolymers and Their Improved Mechanical Properties. <i>Polymers</i> , 2018 , 10,	4.5	24
51	Crystallization behaviors and properties of poly (arylene ether nitrile) nanocomposites induced by aluminum oxide and multi-walled carbon nanotubes. <i>Journal of Materials Science</i> , 2018 , 53, 14361-14374	4.3	3
50	Micro/Mesoporous Fe ₃ O ₄ /Fe-Phthalocyanine Microspheres and Effects of Their Surface Morphology on the Crystallization and Properties of Poly(Arylene Ether Nitrile) Composites. <i>Materials</i> , 2018 , 11,	3.5	4
49	Designing a phthalonitrile/benzoxazine blend for the advanced GFRP composite materials. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018 , 36, 106-112	3.5	14
48	Design of the phthalonitrile-based composite laminates by improving the interfacial compatibility and their enhanced properties. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45881	2.9	10
47	High performance phthalonitrile/phenolic epoxy (PNP/PEP) copolymers and their GFRP composites. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 170, 042012	0.3	1
46	Synergistic Effects of Functional CNTs and h-BN on Enhanced Thermal Conductivity of Epoxy/Cyanate Matrix Composites. <i>Nanomaterials</i> , 2018 , 8,	5.4	9
45	Significant improvement of thermal oxidative mechanical properties in phthalonitrile GFRP composites by introducing microsilica as complementary reinforcement. <i>Composites Part B: Engineering</i> , 2018 , 155, 425-430	10	10
44	Designing and Preparation of Fiber-Reinforced Composites with Enhanced Interface Adhesion. <i>Polymers</i> , 2018 , 10,	4.5	18
43	The synthesis and characterization of a new cross-linkable copolymerization poly(arylene ether sulfone) End-Capped with Phthalonitrile. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 170, 052009	0.3	1
42	Detection of Cu ²⁺ metals by luminescent sensor based on sulfonated poly(arylene ether nitrile)/metal-organic frameworks. <i>Materials Today Communications</i> , 2018 , 16, 258-263	2.5	8
41	Copolymerizing behavior and processability of allyl-functional bisphthalonitrile/bismaleimide system. <i>Polymer Composites</i> , 2017 , 38, 1591-1599	3	6
40	Phthalonitrile-terminated sulfonated poly(arylene ether nitrile)s for direct methanol fuel cells (DMFCs) application. <i>Ionics</i> , 2017 , 23, 1035-1041	2.7	6
39	Designing a low-temperature curable phenolic/benzoxazine-functionalized phthalonitrile copolymers for high performance composite laminates. <i>Journal of Polymer Research</i> , 2017 , 24, 1	2.7	11
38	Preparation of poly (arylene ether nitrile)/Nd ₂ Fe ₁₄ B composite film with excellent thermal properties and tensile strength. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 274, 012089	0.4	9

37	Facile preparation and excellent microwave absorption properties of an RGO/Co _{0.33} Ni _{0.67} lightweight absorber. <i>RSC Advances</i> , 2017 , 7, 43831-43838	3.7	13
36	Fabrication and Electromagnetic Properties of Conjugated NH ₂ -CuPc@Fe ₃ O ₄ . <i>Journal of Electronic Materials</i> , 2017 , 46, 5608-5618	1.9	4
35	Synthesis and microwave absorption properties of sandwich-type CNTs/Fe ₃ O ₄ /RGO composite with Fe ₃ O ₄ as a bridge. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 15043-15049	2.1	7
34	Curing behaviors of cyanate ester/epoxy copolymers and their dielectric properties. <i>High Performance Polymers</i> , 2017 , 29, 1175-1184	1.6	17
33	Curing behaviors and performance of a carboxyl-terminated butadiene acrylonitrile rubber/bisphthalonitrile resin system. <i>High Performance Polymers</i> , 2016 , 28, 581-590	1.6	10
32	Phthalonitrile-based resin for advanced composite materials: Curing behavior studies. <i>Polymer Testing</i> , 2016 , 55, 38-43	4.5	40
31	Studied on mechanical, thermal and dielectric properties of BPh/PEN-OH copolymer. <i>Composites Part B: Engineering</i> , 2016 , 106, 294-299	10	26
30	Self-cured phthalonitrile resin via multistage polymerization mediated by allyl and benzoxazine functional groups. <i>High Performance Polymers</i> , 2016 , 28, 1161-1171	1.6	15
29	Curing behaviors and properties of allyl- and benzoxazine-functional phthalonitrile with improved processability. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	11
28	Influence of Fe ₃ O ₄ /Fe-phthalocyanine decorated graphene oxide on the microwave absorbing performance. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 399, 81-87	2.8	14
27	Copolymerization of self-catalyzed phthalonitrile with bismaleimide toward high-temperature-resistant polymers with improved processability. <i>High Performance Polymers</i> , 2016 , 28, 895-907	1.6	17
26	Curing behavior and processability of BMI/3-APN system for advanced glass fiber composite laminates. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	10
25	Effect of ortho-diallyl bisphenol A on the processability of phthalonitrile-based resin and their fiber-reinforced laminates. <i>Polymer Engineering and Science</i> , 2016 , 56, 150-157	2.3	9
24	Enhanced properties of phthalonitrile-terminated polyarylene ether nitriles embedded with hybrid MWCNT/Boehmite nanocomposites. <i>Polymer Composites</i> , 2015 , 36, 2193-2202	3	1
23	The preparation and wide frequency microwave absorbing properties of tri-substituted-bisphthalonitrile/Fe ₃ O ₄ magnetic hybrid microspheres. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 349, 15-20	2.8	14
22	Preparation and properties of bisphenol A-based bisphthalonitrile polymers. <i>High Performance Polymers</i> , 2014 , 26, 3-11	1.6	13
21	Novel Fe ₃ O ₄ /phthalonitrile alkyl-containing hybrid microspheres and their microwave absorption application in phthalonitrile composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 371, 20-28	2.8	7
20	Nitrile functionalized Al ₂ O ₃ reinforced polyarylene ether nitriles terminated with phthalonitrile composites. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	9

19	The properties (rheological, dielectric, and mechanical) and microtopography of spherical fullerene-filled poly(arylene ether nitrile) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	4
18	Graphene nanoplatelet-reinforced semi-crystal poly(arylene ether nitrile) nanocomposites prepared by the twin-screw extrusion. <i>Polymer Composites</i> , 2014 , 35, 404-411	3	5
17	Synthesis, polymerization, and properties of the allyl-functional phthalonitrile. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	22
16	Fe ₃ O ₄ /FePc/Pc magnetic composites with high mechanical properties and thermal stabilities by in situ preparation. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	3
15	Effect of elevated annealing temperature on the morphology, microstructure, conductivity and microwave absorption properties of phthalocyanine polymer. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2610-2618	2.1	13
14	Design of low temperature self-cured phthalonitrile-based polymers for advanced glass fiber composite laminates. <i>Journal of Materials Science</i> , 2013 , 48, 8108-8116	4.3	42
13	Mechanical and thermal enhancements of benzoxazine-based GF composite laminated by in situ reaction with carboxyl functionalized CNTs. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 2629-2637	2.9	35
12	Dramatic mechanical and thermal increments of thermoplastic composites by multi-scale synergetic reinforcement: Carbon fiber and graphene nanoplatelet. <i>Materials & Design</i> , 2013 , 44, 74-80		67
11	Copolymerizing behavior and processability of benzoxazine/epoxy systems and their applications for glass fiber composite laminates. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 1176-1184	2.9	42
10	Preparation and properties of bisphenol A-based bis-phthalonitrile composite laminates. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 2621-2628	2.9	24
9	Effects of Eu ₂ O ₃ doping on the microwave electromagnetic performances of ferrocenyl organic magnetic material. <i>Materials Letters</i> , 2012 , 78, 162-165	3.3	6
8	Preparation, magnetic and electromagnetic properties of organic magnetic prepolymer containing copper phthalocyanine ring. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2696-2700	2.8	12
7	One-step solvothermal syntheses and microwave electromagnetic properties of organic magnetic resin/Fe ₃ O ₄ hybrid nanospheres. <i>Applied Surface Science</i> , 2012 , 258, 6705-6711	6.7	11
6	Morphological, electrical, thermal and mechanical properties of phthalocyanine/multi-wall carbon nanotubes nanocomposites prepared by masterbatch dilution. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	17
5	Production of empty and iron-filled multiwalled carbon nanotubes from iron phthalocyanine polymer and their electromagnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 921-927	2.1	1
4	Rose thorns-like polymer micro/nanofibers via electrospinning and controlled temperature-induced self-assembly. <i>European Polymer Journal</i> , 2011 , 47, 1563-1568	5.2	10
3	Chemically bonded iron carbonyl for magnetic composites based on phthalonitrile polymers. <i>Polymer International</i> , 2011 , 60, 414-421	3.3	25
2	Fe phthalocyanine oligomer/Fe ₃ O ₄ nano-hybrid particles and their effect on the properties of polyarylene ether nitriles magnetic nanocomposites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 375, 245-251	5.1	27

- 1 Iron phthalocyanine oligomer/Fe₃O₄ hybrid microspheres and their microwave absorption property. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 2174-2178 2.8 22