

Jinyan Wang

List of Publications by Year in descending order

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74
papers

1,437
citations

304743

22
h-index

395702

33
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all docs

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docs citations

74
times ranked

1126
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of an aromatic N-heterocycle derived from biomass and its use as a polymer feedstock. <i>Nature Communications</i> , 2019, 10, 2107.	12.8	99
2	Toughening and reinforcing of benzoxazine resins using a new hyperbranched polyether epoxy as a non-phase-separation modifier. <i>Polymer</i> , 2017, 121, 217-227.	3.8	63
3	Hierarchical N/S co-doped carbon anodes fabricated through a facile ionothermal polymerization for high-performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6363-6373.	10.3	57
4	Engineered Fabrication of Hierarchical Frameworks with Tuned Pore Structure and N,O-Co-Doping for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31940-31949.	8.0	53
5	Density Functional Theory Calculations of the Quantum Capacitance of Graphene Oxide as a Supercapacitor Electrode. <i>ChemPhysChem</i> , 2018, 19, 1579-1583.	2.1	50
6	Inherent N,O-containing carbon frameworks as electrode materials for high-performance supercapacitors. <i>Nanoscale</i> , 2016, 8, 16323-16331.	5.6	49
7	Phthalazinone structure-based covalent triazine frameworks and their gas adsorption and separation properties. <i>RSC Advances</i> , 2016, 6, 12009-12020.	3.6	49
8	Synthesis, characterization, and crosslinking of soluble cyano-containing poly(arylene ether)s bearing phthalazinone moiety. <i>Polymer</i> , 2010, 51, 100-109.	3.8	45
9	Synthesis of High Molecular Weight Poly(phthalazinone ether)s by Ullmann C-N and C-O Condensation Reactions. <i>Macromolecules</i> , 2008, 41, 298-300.	4.8	38
10	Highly thermostable rigid-rod networks constructed from an unsymmetrical bisphthalonitrile bearing phthalazinone moieties. <i>Polymer Chemistry</i> , 2012, 3, 1024.	3.9	38
11	Synthesis and characterization of soluble copoly(arylene ether sulfone phenyl-s-triazine)s containing phthalazinone moieties in the main chain. <i>Polymer</i> , 2009, 50, 4520-4528.	3.8	36
12	Enhanced thermal properties of phthalonitrile networks by cooperating phenyl-s-triazine moieties in backbones. <i>Polymer</i> , 2015, 77, 177-188.	3.8	35
13	Improving the curing process and thermal stability of phthalonitrile resin via novel mixed curing agents. <i>Polymer International</i> , 2017, 66, 876-881.	3.1	34
14	Wave-transparent composites based on phthalonitrile resins with commendable thermal properties and dielectric performance. <i>Polymer</i> , 2020, 198, 122490.	3.8	34
15	Synthesis and characterization of partly fluorinated poly(phthalazinone ether)s crosslinked by allyl group for passive optical waveguides. <i>Polymer</i> , 2010, 51, 1524-1529.	3.8	32
16	One-step functionalization of carbon fiber using in situ generated aromatic diazonium salts to enhance adhesion with PPBES resins. <i>RSC Advances</i> , 2016, 6, 70704-70714.	3.6	28
17	Enhanced thermal property via tunable bisphenol moieties in branched phthalonitrile thermoset. <i>Polymer</i> , 2019, 172, 372-381.	3.8	27
18	Engineering Ultramicroporous Carbon with Abundant N as Extended "Slope-Dominated" Sodium Ion Battery Anodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9727-9739.	6.7	27

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19	Light-weight 1D heteroatoms-doped Fe ₃ C@C nanofibers for microwave absorption with a thinner matching thickness. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160968.	5.5	24
20	Synthesis and characterization of poly(arylene ether s-triazine)s containing alkyl-, aryl- and chloro-substituted phthalazinone moieties in the main chain. <i>Polymer International</i> , 2010, 59, 1233-1239.	3.1	23
21	Self-curing triphenol A-based phthalonitrile resin precursor acts as a flexibilizer and curing agent for phthalonitrile resin. <i>RSC Advances</i> , 2018, 8, 32899-32908.	3.6	23
22	Scalable fabrication of heteroatom-doped versatile hierarchical porous carbons with an all-in-one phthalonitrile precursor and their applications. <i>Carbon</i> , 2020, 159, 495-503.	10.3	23
23	One-pot strategy for covalent construction of POSS-modified silane layer on carbon fiber to enhance interfacial properties and anti-hydrothermal aging behaviors of PPBES composites. <i>Journal of Materials Science</i> , 2018, 53, 16303-16317.	3.7	22
24	Thermally stable phthalonitrile resins based on multiple oligo (aryl ether)s with phenyl-s-triazine moieties in backbones. <i>RSC Advances</i> , 2015, 5, 77027-77036.	3.6	21
25	Partial bio-based poly (aryl ether ketone) derived from 2,5-furandicarboxylic acid with enhanced processability. <i>Polymer Degradation and Stability</i> , 2019, 161, 309-318.	5.8	21
26	Low-viscosity and soluble phthalonitrile resin with improved thermostability for organic wave-transparent composites. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45976.	2.6	20
27	A novel bio-based phthalonitrile resin derived from catechin: synthesis and comparison of curing behavior with petroleum-based counterpart. <i>Polymer International</i> , 2018, 67, 322-329.	3.1	20
28	Branched phenyl-s-triazine moieties to enhance thermal properties of phthalonitrile thermosets. <i>Polymer International</i> , 2018, 67, 189-196.	3.1	18
29	Reduced curing kinetic energy and enhanced thermal resistance of phthalonitrile resins modified with inorganic particles. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1922-1929.	3.2	18
30	Constructing N, O-Containing micro/mesoporous covalent triazine-based frameworks toward a detailed analysis of the combined effect of N, O heteroatoms on electrochemical performance. <i>Nano Energy</i> , 2020, 74, 104789.	16.0	18
31	Temperature for curing phthalonitrile-terminated poly(phthalazinone ether nitrile) reduced by a mixed curing agent and its curing behavior. <i>RSC Advances</i> , 2015, 5, 92055-92060.	3.6	17
32	Apatite Formation on Poly(aryl ether sulfone ketone) Surfaces by Means of Polydopamine Layers Functionalized with Phosphonate Groups. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800003.	3.7	17
33	Synthesis of novel poly(phthalazinone fluorenyl ether ketone)s with improved thermal stability and processability. <i>Thermochimica Acta</i> , 2020, 683, 178184.	2.7	17
34	Phthalonitrile-functional multiple arylene ether nitrile-containing phthalazinone moiety: facile synthesis, curing, and properties. <i>High Performance Polymers</i> , 2014, 26, 540-549.	1.8	16
35	Preparation and characterization of electrospun poly(phthalazinone ether nitrile ketone) membrane with novel thermally stable properties. <i>Applied Surface Science</i> , 2015, 351, 169-174.	6.1	16
36	Improved Mechanical Properties of Copoly(Phthalazinone Ether Sulphone)s Composites Reinforced by Multiscale Carbon Fibre/Graphene Oxide Reinforcements: A Step Closer to Industrial Production. <i>Polymers</i> , 2019, 11, 237.	4.5	16

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37	Soluble and thermally stable copoly(phenyl-s-triazine)s containing both diphenylfluorene and phthalazinone units in the backbone. <i>Polymer Bulletin</i> , 2014, 71, 2641-2660.	3.3	15
38	Carbon spheres with rational designed surface and secondary particle-piled structures for fast and stable sodium storage. <i>Journal of Energy Chemistry</i> , 2021, 54, 368-376.	12.9	15
39	Synthesis and properties of organic soluble semicrystalline poly(aryl ether ketone)s copolymers containing phthalazinone moieties. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1744-1753.	2.6	14
40	Thermal degradation kinetics of poly(aryl ether sulfone 1,3,5-triazine)s containing phthalazinone moieties. <i>Thermochimica Acta</i> , 2011, 514, 51-57.	2.7	14
41	UV-soft Imprinted Tunable Polymer Waveguide Ring Resonator for Microwave Photonic Filtering. <i>Journal of Lightwave Technology</i> , 2014, 32, 3924-3932.	4.6	14
42	Synthesis and characterization of phthalazinone-based poly(aryl ether ketone) derived from 4,4'-dichlorobenzophenone. <i>Polymers for Advanced Technologies</i> , 2012, 23, 742-747.	3.2	13
43	Enhanced properties of phthalonitrile resins under lower curing temperature via complex curing agent. <i>Polymers for Advanced Technologies</i> , 2020, 31, 233-239.	3.2	13
44	Synthesis of phenyl-s-triazine-based copoly(aryl ether)s derived from hydroquinone and resorcinol. <i>Polymer Degradation and Stability</i> , 2009, 94, 2065-2071.	5.8	12
45	Synthesis and characterization of novel photo-crosslinkable fluorinated poly(phthalazinone ether)s for optical waveguides. <i>Polymer International</i> , 2012, 61, 711-718.	3.1	12
46	Novel phthalonitrile-based composites with excellent processing, thermal, and mechanical properties. <i>High Performance Polymers</i> , 2018, 30, 720-730.	1.8	11
47	Effects of phenyl-s-triazine moieties on thermal stability and degradation behavior of aromatic polyether sulfones. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	10
48	Compatibilization effect of aminated poly(phthalazinone ether ketone)s in carbon fiber-reinforced copoly(phthalazinone ether sulfone)s composites. <i>Polymer Composites</i> , 2018, 39, 4139-4147.	4.6	10
49	Polybenzoxazine thermosets with enhanced toughness via blending with phthalazinone-bearing thermal plastic copoly(aryl ether nitrile)s. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48508.	2.6	10
50	Preparation and evaluation of epoxy methacrylate UV-curable coatings containing phthalazinone. <i>Polymer International</i> , 2010, 59, 107-111.	3.1	9
51	Simple Fabrication of High-Efficiency N,O,F,P-Containing Electrodes through Host-Guest Doping for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15764-15772.	6.7	9
52	Preparation of Novel Epoxy Resins Bearing Phthalazinone Moiety and Their Application as High-Temperature Adhesives. <i>Polymers</i> , 2018, 10, 708.	4.5	9
53	Kinetic analysis of the curing of branched phthalonitrile resin based on dynamic differential scanning calorimetry. <i>Polymer Testing</i> , 2021, 96, 107062.	4.8	9
54	Lyotropic Liquid Crystalline Polyamides Containing Aromatic, Heterocyclic Structures: Preparation and Properties. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1610-1615.	2.2	8

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55	Preparation and characteristics of polymer matrix composite coatings with low infrared emissivity and high temperature resistance. <i>Polymer Engineering and Science</i> , 2022, 62, 1941-1949.	3.1	8
56	An investigation of the relationship between the performance of polybenzoxazine and backbone structure of hyperbranched epoxy modifiers. <i>Polymer International</i> , 2018, 67, 100-110.	3.1	7
57	Construction of dimetal-containing dithiolene and Schiff base conjugated polymer coating: exploiting metal coordination as a design strategy for improving infrared stealth properties. <i>Polymer Chemistry</i> , 2019, 10, 5839-5848.	3.9	7
58	RhBMP-2 immobilized on poly(phthalazinone ether nitrile ketone) via chemical and physical modification for promoting in vitro osteogenic differentiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111173.	5.0	7
59	Effect of IR laser treatment parameters on surface structure, roughness, wettability and bonding properties of fused deposition modeling printed PEEK/CF. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51181.	2.6	6
60	A Rigid and Planar Aza-Based Ternary Anhydride for the Preparation of Cross-Linked Polyimide Membrane Displaying High CO ₂ /CH ₄ Separation Performance. <i>Polymers</i> , 2022, 14, 389.	4.5	6
61	Phosphonate-Functionalized Poly(phthalazinone ether ketones) Induce the Formation of Apatite Coatings for Enhanced Biocompatibility and Osteogenic Activity. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2562-2572.	4.4	6
62	Synergistic Effect of Poly(aryl ether ketone) Matrices via Rational Ternary Copolymerization Enables Efficient and Stable Organic Solar Cells. <i>Chemistry of Materials</i> , 2022, 34, 430-439.	6.7	6
63	Deep eutectic solvent for curing of phthalonitrile resin: Lower the curing temperature but improve the properties of thermosetting. <i>High Performance Polymers</i> , 2021, 33, 538-545.	1.8	5
64	Preparation and evaluation of a UV-curing hydrophilic semi-IPN coating for medical guidewires. <i>Journal of Coatings Technology Research</i> , 2021, 18, 1027-1035.	2.5	5
65	Novel phthalazinone-bearing tetrafunctional epoxy: Synthesis, characterization, and their toughening application for TGDDM system. <i>Polymers for Advanced Technologies</i> , 2020, 31, 635-644.	3.2	4
66	Fully bio-based furyl-functionalized bisphenols and bio-based cross-linking poly(aryl ether ketone)s with high biomass content, thermo-reversibility, excellent processing and mechanical properties. <i>Polymer Degradation and Stability</i> , 2022, 200, 109961.	5.8	4
67	A tunable optical waveguide ring resonator for microwave photonic filtering. , 2013, , .		3
68	A novel phthalazinone-based epoxy resin with excellent rheological property and intrinsic flame retardancy. <i>Journal of Materials Science</i> , 2021, 56, 9079-9092.	3.7	3
69	Improving the Thermal Properties of Polycarbonate via the Copolymerization of a Small Amount of Bisphenol Fluorene with Bisphenol A. <i>International Journal of Polymer Science</i> , 2022, 2022, 1-6.	2.7	3
70	Simple Ku-band radio over fiber system with high dispersion tolerance using a polymer-based microring resonator filter. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1129-1133.	1.4	2
71	Construction of flexible and stable near-infrared absorbing polymer films containing nickel-bis(dithiolene) moieties via ligand-exchange post-polymerization modification. <i>Polymer Chemistry</i> , 2017, 8, 3977-3991.	3.9	2
72	PPESK-Modified Multi-Functional Epoxy Resin and Its Application to the Pultrusion of Carbon Fiber. <i>Polymers</i> , 2018, 10, 1067.	4.5	2

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73	Microwave photonic signal processing with polymer waveguide ring resonators. , 2012, , .		0
74	Optical waveguide ring based notch filter for microwave photonic signal processing. , 2013, , .		0