

Gang Yang

List of Publications by Year in descending order

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41
papers

1,025
citations

430874

18
h-index

434195

31
g-index

42
all docs

42
docs citations

42
times ranked

453
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on self-promoted cure behaviors of hydroxy-containing phthalonitrile model compounds. <i>European Polymer Journal</i> , 2009, 45, 1328-1335.	5.4	109
2	Self-promoted phthalimide-containing phthalonitrile resins with sluggish curing process and excellent thermal stability. <i>RSC Advances</i> , 2015, 5, 16199-16206.	3.6	69
3	Bio-molecule adenine building block effectively enhances electromagnetic interference shielding performance of polyimide-derived carbon foam. <i>Carbon</i> , 2019, 149, 190-202.	10.3	66
4	A new soluble aramide with pendant phthalonitrile units and polymer property enhancement by nitrile cure reactions. <i>Polymer</i> , 2009, 50, 5002-5006.	3.8	54
5	A novel benzimidazole-containing phthalonitrile monomer with unique polymerization behavior. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4977-4982.	2.3	54
6	Renewable protein-based monomer for thermosets: a case study on phthalonitrile resin. <i>Green Chemistry</i> , 2018, 20, 5158-5168.	9.0	52
7	Bio-based adenine-containing high performance polyimide. <i>Polymer</i> , 2017, 119, 59-65.	3.8	46
8	TG-MS-FTIR study on pyrolysis behavior of phthalonitrile resin. <i>Polymer Degradation and Stability</i> , 2019, 169, 108954.	5.8	46
9	Systematic study on highly efficient Thermal Synergistic Polymerization effect between alicyclic imide moiety and phthalonitrile: Scope, Properties and Mechanism. <i>Polymer</i> , 2016, 102, 266-280.	3.8	41
10	Synthesis and curing of a novel amino-containing phthalonitrile derivative. <i>Chinese Chemical Letters</i> , 2007, 18, 523-526.	9.0	40
11	Preparation of self-promoted hydroxy-containing phthalonitrile resins by an in situ reaction. <i>RSC Advances</i> , 2015, 5, 105038-105046.	3.6	35
12	Study of the curing kinetics of a benzimidazole/phthalonitrile resin system. <i>Thermochimica Acta</i> , 2014, 590, 30-39.	2.7	33
13	High performance polyimides containing bio-molecule adenine building block from DNA. <i>Polymer</i> , 2018, 146, 407-419.	3.8	31
14	Promoting effect of methyne/methylene moiety of bisphenol E/F on phthalonitrile resin curing: Expanding the structural design route of phthalonitrile resin. <i>Polymer</i> , 2020, 210, 123001.	3.8	28
15	A Smart Thermography Camera and Application in the Diagnosis of Electrical Equipment. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	27
16	New insights into mechanism of negative in-plane CTE based on bio-based adenine-containing polyimide film. <i>Polymer</i> , 2018, 146, 133-141.	3.8	25
17	A molding-sintering method inspired by powder metallurgy for thermosetting resins with narrow processing window: A case study on bio-based adenine containing phthalonitrile. <i>Chemical Engineering Journal</i> , 2020, 398, 125442.	12.7	21
18	Study of the curing kinetics of melamine/phthalonitrile resin system. <i>Thermochimica Acta</i> , 2020, 683, 178442.	2.7	19

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19	Electrical equipment identification in infrared images based on ROI-selected CNN method. <i>Electric Power Systems Research</i> , 2020, 188, 106534.	3.6	19
20	Inspiration from a new lignin-derived phthalonitrile resin: Unique curing behavior, and thermal properties. <i>European Polymer Journal</i> , 2019, 121, 109351.	5.4	18
21	A new molecular design platform for high-performance polymers from versatile bio-based tyramine: a case study of tyramine-derived phthalonitrile resin. <i>Polymer Chemistry</i> , 2021, 12, 408-422.	3.9	17
22	Study on the phthalonitrile cured via bio-tyrosine cyclic peptide: Achieving good thermal properties under low post-curing temperature. <i>Polymer Degradation and Stability</i> , 2020, 181, 109289.	5.8	16
23	A prospective partial bio-based diamine-adenine-monomer platform for high performance polymer: A case study on phthalonitrile resin. <i>Polymer Degradation and Stability</i> , 2019, 167, 114-123.	5.8	15
24	A novel development route for cyano-based high performance thermosetting resins via the strategy of functional group design-dicyanoimidazole resins. <i>Polymer</i> , 2020, 203, 122823.	3.8	15
25	New model phthalonitrile resin system based on self-promoted curing reaction for exploring the mechanism of radical promoted polymerization effect. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48134.	2.6	14
26	Study on the curing kinetics of phthalonitrile promoted by bio-tyrosine cyclic peptide. <i>Polymer Testing</i> , 2020, 90, 106753.	4.8	12
27	Bio-adenine-bridged molecular design approach toward non-covalent functionalized graphene by liquid-phase exfoliation. <i>Journal of Materials Science</i> , 2020, 55, 140-150.	3.7	10
28	A new class of high-performance thermoset resins using dicyanoimidazole (DCI) as crosslinking group: A key demo of synthesis, curing behavior and thermal properties. <i>Polymer</i> , 2021, 235, 124264.	3.8	10
29	Copolymerization modification: improving the processability and thermal properties of phthalonitrile resins with novel comonomers. <i>Polymer International</i> , 2019, 68, 724-734.	3.1	9
30	Route to a Porous Carbon Nanofiber Membrane Containing Fe _x C _y /Fe by Facile In Situ Ion-Exchange Functionalization of the PAA Carboxyl Group: Exemplified by a Supercapacitor. <i>ACS Applied Energy Materials</i> , 2022, 5, 1580-1594.	5.1	9
31	Study on Pyrolysis Behavior of Bio-based adenine containing phthalonitrile resin obtained by powder metallurgy-like process. <i>Polymer Degradation and Stability</i> , 2021, 188, 109569.	5.8	8
32	Porous carbon foam based on coassembled graphene and adenine-polyimide for electromagnetic interference shielding. <i>Polymer</i> , 2021, 236, 124328.	3.8	8
33	Seaweed-like Nitrogen-Doped Porous Carbon Superstructures via an Ultrasonic Atomization Ice Template as High-Performance Electrodes in Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 6163-6173.	5.1	8
34	Synthesis and Characterization of Novel Polyamides Containing Purine Moiety. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 1325-1333.	1.9	7
35	The retarding effects and structural evolution of a bio-based high-performance polyimide during thermal imidization. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46953.	2.6	7
36	Bio-based adenine-containing copolyimides with high switching temperatures and high-strain storage. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 986-995.	3.4	6

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37	A New Adenine-Derived Physical Dispersion System for Graphene/Polyimide Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6309-6317.	3.7	5
38	A novel, facile and straightforward approach to achieve high-performance and efficient utilization of sustainable tyrosine cyclic peptide. <i>Polymer</i> , 2021, 217, 123417.	3.8	4
39	A fabrication of three-dimensional multi-assembling platform based on polyimide matrix. <i>Polymer</i> , 2019, 183, 121833.	3.8	2
40	Synthesis of oligomeric phthalonitrile resins containing imide units and study of the methylene-cyano thermal synergistic polymerization effect. <i>High Performance Polymers</i> , 2022, 34, 728-741.	1.8	1
41	The role of intramolecular and intermolecular hydrogen bonding effect for adenine-containing polyimide films. <i>High Performance Polymers</i> , 0, , 095400832110727.	1.8	1