

Gang Yang

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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. ACS Applied Energy Materials, 2022, 5, 1580-1594. | 5.1 | 9 |
| 2 | Synthesis of oligomeric phthalonitrile resins containing imide units and study of the methylene-cyano thermal synergistic polymerization effect. High Performance Polymers, 2022, 34, 728-741. | 1.8 | 1 |
| 3 | Bio-based adenine-containing copolyimides with high switching temperatures and high-strain storage. Molecular Systems Design and Engineering, 2022, 7, 986-995. | 3.4 | 6 |
| 4 | Seaweed-like Nitrogen-Doped Porous Carbon Superstructures <i>via</i> an Ultrasonic Atomization Ice Template as High-Performance Electrodes in Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6163-6173. | 5.1 | 8 |
| 5 | A new molecular design platform for high-performance polymers from versatile bio-based tyramine: a case study of tyramine-derived phthalonitrile resin. Polymer Chemistry, 2021, 12, 408-422. | 3.9 | 17 |
| 6 | A Smart Thermography Camera and Application in the Diagnosis of Electrical Equipment. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8. | 4.7 | 27 |
| 7 | A novel, facile and straightforward approach to achieve high-performance and efficient utilization of sustainable tyrosine cyclic peptide. Polymer, 2021, 217, 123417. | 3.8 | 4 |
| 8 | Study on Pyrolysis Behavior of Bio-based adenine containing phthalonitrile resin obtained by powder metallurgy-like process. Polymer Degradation and Stability, 2021, 188, 109569. | 5.8 | 8 |
| 9 | A new class of high-performance thermoset resins using dicyanoimidazole (DCI) as crosslinking group: A key demo of synthesis, curing behavior and thermal properties. Polymer, 2021, 235, 124264. | 3.8 | 10 |
| 10 | Porous carbon foam based on coassembled graphene and adenine-polyimide for electromagnetic interference shielding. Polymer, 2021, 236, 124328. | 3.8 | 8 |
| 11 | Bio-adenine-bridged molecular design approach toward non-covalent functionalized graphene by liquid-phase exfoliation. Journal of Materials Science, 2020, 55, 140-150. | 3.7 | 10 |
| 12 | Study of the curing kinetics of melamine/phthalonitrile resin system. Thermochemica Acta, 2020, 683, 178442. | 2.7 | 19 |
| 13 | Study on the phthalonitrile cured via bio-tyrosine cyclic peptide: Achieving good thermal properties under low post-curing temperature. Polymer Degradation and Stability, 2020, 181, 109289. | 5.8 | 16 |
| 14 | Promoting effect of methyne/methylene moiety of bisphenol E/F on phthalonitrile resin curing: Expanding the structural design route of phthalonitrile resin. Polymer, 2020, 210, 123001. | 3.8 | 28 |
| 15 | A novel development route for cyano-based high performance thermosetting resins via the strategy of functional group design-dicyanoimidazole resins. Polymer, 2020, 203, 122823. | 3.8 | 15 |
| 16 | Electrical equipment identification in infrared images based on ROI-selected CNN method. Electric Power Systems Research, 2020, 188, 106534. | 3.6 | 19 |
| 17 | Study on the curing kinetics of phthalonitrile promoted by bio-tyrosine cyclic peptide. Polymer Testing, 2020, 90, 106753. | 4.8 | 12 |
| 18 | A molding-sintering method inspired by powder metallurgy for thermosetting resins with narrow processing window: A case study on bio-based adenine containing phthalonitrile. Chemical Engineering Journal, 2020, 398, 125442. | 12.7 | 21 |

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|----|---|------|-----------|
| 19 | A New Adenine-Derived Physical Dispersion System for Graphene/Polyimide Composites. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6309-6317. | 3.7 | 5 |
| 20 | 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 |
| 21 | 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 |
| 22 | TG-MS-FTIR study on pyrolysis behavior of phthalonitrile resin. <i>Polymer Degradation and Stability</i> , 2019, 169, 108954. | 5.8 | 46 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | A fabrication of three-dimensional multi-assembling platform based on polyimide matrix. <i>Polymer</i> , 2019, 183, 121833. | 3.8 | 2 |
| 27 | 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 |
| 28 | Synthesis and Characterization of Novel Polyamides Containing Purine Moiety. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 1325-1333. | 1.9 | 7 |
| 29 | Renewable protein-based monomer for thermosets: a case study on phthalonitrile resin. <i>Green Chemistry</i> , 2018, 20, 5158-5168. | 9.0 | 52 |
| 30 | High performance polyimides containing bio-molecule adenine building block from DNA. <i>Polymer</i> , 2018, 146, 407-419. | 3.8 | 31 |
| 31 | 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 |
| 32 | Bio-based adenine-containing high performance polyimide. <i>Polymer</i> , 2017, 119, 59-65. | 3.8 | 46 |
| 33 | 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 |
| 34 | Preparation of self-promoted hydroxy-containing phthalonitrile resins by an in situ reaction. <i>RSC Advances</i> , 2015, 5, 105038-105046. | 3.6 | 35 |
| 35 | 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 |
| 36 | Study of the curing kinetics of a benzimidazole/phthalonitrile resin system. <i>Thermochimica Acta</i> , 2014, 590, 30-39. | 2.7 | 33 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Studies on self-promoted cure behaviors of hydroxy-containing phthalonitrile model compounds. <i>European Polymer Journal</i> , 2009, 45, 1328-1335. | 5.4 | 109 |
| 40 | Synthesis and curing of a novel amino-containing phthalonitrile derivative. <i>Chinese Chemical Letters</i> , 2007, 18, 523-526. | 9.0 | 40 |
| 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 |