

Kang Cheng

List of Publications by Year in descending order

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58
papers

1,326
citations

471509

17
h-index

377865

34
g-index

59
all docs

59
docs citations

59
times ranked

1025
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	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
4	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
5	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
6	A new addition thermosetting resin from phthalonitrile functionalized [2.2]paracyclophane. Polymer, 2021, 231, 124123.	3.8	9
7	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
8	Curing kinetic of self-promoted alicyclic-based bisphthalonitrile monomer. Thermochimica Acta, 2020, 683, 178446.	2.7	10
9	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
10	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
11	Study on pyrolysis behaviors of L-tyrosine-based phthalonitrile resin. Polymer Testing, 2020, 86, 106506.	4.8	6
12	A New Adenine-Derived Physical Dispersion System for Graphene/Polyimide Composites. Industrial & Engineering Chemistry Research, 2020, 59, 6309-6317.	3.7	5
13	The retarding effects and structural evolution of a bio-based high-performance polyimide during thermal imidization. Journal of Applied Polymer Science, 2019, 136, 46953.	2.6	7
14	New model phthalonitrile resin system based on self-promoted curing reaction for exploring the mechanism of radical promoted polymerization effect. Journal of Applied Polymer Science, 2019, 136, 48134.	2.6	14
15	Copolymerization modification: improving the processability and thermal properties of phthalonitrile resins with novel comonomers. Polymer International, 2019, 68, 724-734.	3.1	9
16	Assessment of the characteristics and biocompatibility of gelatin sponge scaffolds prepared by various crosslinking methods. Scientific Reports, 2018, 8, 1616.	3.3	157
17	Curing kinetics study on highly efficient thermal synergistic polymerization effect between alicyclic imide moiety and phthalonitrile. Thermochimica Acta, 2018, 659, 27-33.	2.7	13
18	Synthesis and Characterization of Novel Polyamides Containing Purine Moiety. Polymer-Plastics Technology and Engineering, 2018, 57, 1325-1333.	1.9	7

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19	Phthalonitrile-PPO Blends: Cure Behavior and Properties. Chinese Journal of Polymer Science (English) Tj ETQq1 1 0,784314 rgBT /Ove	3.8	21
20	Renewable protein-based monomer for thermosets: a case study on phthalonitrile resin. Green Chemistry, 2018, 20, 5158-5168.	9.0	52
21	A Novel Combined Electromagnetic Treatment on Cemented Carbides for Improved Milling and Mechanical Performances. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4798-4808.	2.2	25
22	A Rare Case of Cardiac Calcified Amorphous Tumor: Multi-Modality Imaging Evaluation. American Journal of Case Reports, 2018, 19, 214-217.	0.8	2
23	Obtaining spontaneously beating cardiomyocyte-like cells from adipose-derived stromal vascular fractions cultured on enzyme-crosslinked gelatin hydrogels. Scientific Reports, 2017, 7, 41781.	3.3	18
24	Regulation of adipose-tissue-derived stromal cell orientation and motility in 2D and 3D cultures by direct-current electrical field. Development Growth and Differentiation, 2017, 59, 70-82.	1.5	12
25	Insights into phthalonitrile/epoxy blends modification system from non-competitive cure system based on alicyclic anhydride. Chinese Journal of Polymer Science (English Edition), 2017, 35, 1561-1571.	3.8	5
26	Novel benzimidazole-mediated phthalonitrile/epoxy binary blends system with synergistic curing behavior and outstanding thermal properties. RSC Advances, 2017, 7, 43978-43986.	3.6	17
27	Production of high-precision micro metallic components by electroforming process. Materials and Manufacturing Processes, 2017, 32, 1325-1330.	4.7	11
28	Preparation and characteristics of gelatin sponges crosslinked by microbial transglutaminase. PeerJ, 2017, 5, e3665.	2.0	26
29	Enzymatically crosslinked gelatin hydrogel promotes the proliferation of adipose tissue-derived stromal cells. PeerJ, 2016, 4, e2497.	2.0	105
30	Systematic study on highly efficient Thermal Synergistic Polymerization effect between alicyclic imide moiety and phthalonitrile: Scope, Properties and Mechanism. Polymer, 2016, 102, 266-280.	3.8	41
31	A novel curing agent for phthalonitrile monomers: Curing behaviors and properties of the polymer network. Polymer, 2016, 84, 365-370.	3.8	77
32	Preparation of self-promoted hydroxy-containing phthalonitrile resins by an in situ reaction. RSC Advances, 2015, 5, 105038-105046.	3.6	35
33	Self-promoted phthalimide-containing phthalonitrile resins with sluggish curing process and excellent thermal stability. RSC Advances, 2015, 5, 16199-16206.	3.6	69
34	Preparation of poly{styene-co-4-(4-vinylphenoxy) phthalonitrile} microspheres by a new approach of α -coco-dissolution and its function development. Macromolecular Research, 2015, 23, 628-635.	2.4	1
35	Study on thermal behaviors of a novel cruciform amide-containing phthalonitrile monomer. Designed Monomers and Polymers, 2015, 18, 620-626.	1.6	8
36	Synthesis and characterization of a new imide compound containing phthalonitrile and phenylethynyl end-groups. Designed Monomers and Polymers, 2015, 18, 343-349.	1.6	25

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37	Structure optimization and casting simulation of engine trestle based on CAE technology. , 2014, , .		1
38	Significant approaches to promote post-cure reaction of bulky polyimides with pendant phthalonitrile unit. Macromolecular Research, 2014, 22, 1074-1083.	2.4	3
39	Synthesis and properties of polyimides derived from a new phthalonitrile-containing diamine with high polyaddition reactivity. Designed Monomers and Polymers, 2014, 17, 186-193.	1.6	16
40	Study of the curing kinetics of a benzimidazole/phthalonitrile resin system. Thermochemica Acta, 2014, 590, 30-39.	2.7	33
41	Effects of Heating Rate and Sintering Temperature on Micro Forming of 316L Stainless Steel Powder Under Multifield Coupling. Powder Metallurgy and Metal Ceramics, 2013, 52, 261-270.	0.8	3
42	Densification behavior of copper powder during the coupled multi-physics fields-activated microforming. International Journal of Advanced Manufacturing Technology, 2013, 69, 2651-2657.	3.0	15
43	Forming Microgears by Micro-FAST Technology. Journal of Microelectromechanical Systems, 2013, 22, 708-715.	2.5	13
44	316L Stainless Steel Powder Densification during the Coupled Multi-Fields Activated Micro-Forming. Materials and Manufacturing Processes, 2013, 28, 183-188.	4.7	16
45	Effects of Heating Rate and Sintering Temperature on 316L Stainless Steel Powders Sintered Under Multiphysical Field Coupling. Materials and Manufacturing Processes, 2012, 28, 66-71.	4.7	24
46	Synthesis and Characterization of Highly Organosoluble Polyimides Based on a New Asymmetric Dianhydride. Designed Monomers and Polymers, 2012, 15, 53-62.	1.6	12
47	A novel benzimidazole-containing phthalonitrile monomer with unique polymerization behavior. Journal of Polymer Science Part A, 2012, 50, 4977-4982.	2.3	54
48	Effect of heating rate on the densification of NdFeB alloys sintered by an electric field. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 1023-1028.	4.9	5
49	Synthesis and thermal polymerization of new polyimides with pendant phthalonitrile units. Polymer Bulletin, 2012, 68, 1879-1888.	3.3	15
50	Studies on organosoluble polyimides based on a series of new asymmetric and symmetric dianhydrides: Structure/solubility and thermal property relationships. Macromolecular Research, 2012, 20, 10-20.	2.4	17
51	Degradation of poly(D,L-lactic acid)-poly(ethylene glycol) copolymer and poly(L-lactic acid) by electron beam irradiation. Journal of Applied Polymer Science, 2011, 120, 509-517.	2.6	5
52	Modification of poly(D,L-lactic acid)-co-poly(ethylene glycol) copolymer by low energy electron beam (EB) radiation. E-Polymers, 2010, 10, .	3.0	1
53	Degradation of poly(D,L-lactic acid)-poly(ethylene glycol) copolymer by low energy electron beam (EB) radiation. Applied Polymer Science, 2009, 112, 2981-2987.	2.6	15
54	Synthesis, characterization and self-promoted cure behaviors of a new phthalonitrile derivative 4-(4-(3, 5-diaminobenzoyl) phenoxy) phthalonitrile. Polymer Bulletin, 2009, 62, 581-591.	3.3	35

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55	Studies on self-promoted cure behaviors of hydroxy-containing phthalonitrile model compounds. <i>European Polymer Journal</i> , 2009, 45, 1328-1335.	5.4	109
56	Study of thermal properties of difunctional benzoxazines. <i>E-Polymers</i> , 2009, 9, .	3.0	0
57	Synthesis and curing of a novel amino-containing phthalonitrile derivative. <i>Chinese Chemical Letters</i> , 2007, 18, 523-526.	9.0	40
58	Characterization of DNA-loaded porous polyethersulfone particles prepared by phase inversion technique. <i>Colloid Journal</i> , 2005, 67, 140-145.	1.3	9