

LongBo Luo

List of Publications by Year in descending order

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67
papers

1,465
citations

279798

23
h-index

377865

34
g-index

67
all docs

67
docs citations

67
times ranked

1035
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of high-temperature aromatic polyamides with ultra-high breakdown strength via complex-assisted chain arrangement. <i>Chemical Engineering Journal</i> , 2022, 432, 134407.	12.7	8
2	Electrospun Separator Based on Sulfonated Polyoxadiazole with Outstanding Thermal Stability and Electrochemical Properties for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 879-887.	5.1	21
3	Construction of polyimide films with excellent dimensional stability and toughness via incorporating point-to-face multi-coordination structure. <i>Composites Part B: Engineering</i> , 2021, 208, 108566.	12.0	23
4	Improving dimensional stability at high temperature and toughness of polyimide films via adjustable entanglement density. <i>Polymer</i> , 2021, 218, 123488.	3.8	20
5	Preparation of High Strength and Toughness Aramid Fiber by Introducing Flexible Asymmetric Monomer to Construct Misplaced Nunchaku Structure. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000814.	3.6	12
6	Free H-Bonding Interaction Sites in Rigid Chain Polymers and Their Filling Approach: A Molecular Dynamics Simulation Study. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100016.	2.8	7
7	Post-construction of weaving structure in aramid fiber towards improvements of its transverse properties. <i>Composites Science and Technology</i> , 2021, 208, 108780.	7.8	14
8	The adsorption of aromatic macromolecules on graphene with entropy-tailored behavior and its utilization in exfoliating graphite. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 12-22.	9.4	2
9	Toughening and enhancing thermostability of vitrimer rubber via adding heterocyclic aramid. <i>Composites Communications</i> , 2021, 28, 100934.	6.3	5
10	Synthesis of tautomerization-inhibited diamino substituted tetraphenylethene derivatives with different mechanochromisms: the vital role of chlorine. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2387-2398.	5.9	5
11	Flexible pressure sensors with high pressure sensitivity and low detection limit using a unique honeycomb-designed polyimide/reduced graphene oxide composite aerogel. <i>RSC Advances</i> , 2021, 11, 11760-11770.	3.6	35
12	Construction of stable hydrogen bonds at high temperature for preparation of polyimide films with ultralow coefficient of thermal expansion and high T _g . <i>Polymer</i> , 2020, 188, 122100.	3.8	44
13	C-N Coupling Reactions on Graphene with Aromatic Macromolecules and the Spatial Conformation of Grafted Macromolecules. <i>Chemistry - A European Journal</i> , 2020, 26, 1819-1826.	3.3	4
14	Constructing mainstay-body structure in heterocyclic aramid fiber to simultaneously improve tensile strength and toughness. <i>Composites Part B: Engineering</i> , 2020, 202, 108411.	12.0	28
15	Green and Economical Strategy for Spinning Robust Cellulose Filaments. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14927-14937.	6.7	20
16	Biocompatible In Situ Polymerization of Multipurpose Polyacrylamide-Based Hydrogels on Skin via Silver Ion Catalyzation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31079-31089.	8.0	36
17	Fabrication of durable superhydrophobic surfaces of polyester fabrics via fluorination-induced grafting copolymerization. <i>Applied Surface Science</i> , 2020, 515, 146006.	6.1	31
18	Synergistic "Anchor" Effect of Carbon Nanotubes and Silica: A Facile and Efficient Double-Nanocomposite System To Reinforce High-Performance Polyimide Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16620-16628.	3.7	4

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19	Constructing a weaving structure for aramid fiber by carbon nanotube-based network to simultaneously improve composites interfacial properties and compressive properties. <i>Composites Science and Technology</i> , 2019, 182, 107721.	7.8	22
20	Self-enhancement in aramid fiber by filling free hydrogen bonding interaction sites in macromolecular chains with its oligomer. <i>Polymer</i> , 2019, 180, 121687.	3.8	19
21	Fast and efficient oil-water separation under harsh conditions of the flexible polyimide aerogel containing benzimidazole structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123809.	4.7	30
22	Regulating Cu(II)-benzimidazole coordination structure in rigid-rod aramid fiber and its composites enhancement effects. <i>Composites Science and Technology</i> , 2019, 184, 107837.	7.8	14
23	Improving Compressive Strength of Aramid Fiber by Introducing Carbon Nanotube Derivates Grafted with Oligomers of Different Conformations and Controlling Its Alignment. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900127.	3.6	5
24	Preparation of novel aramid film with ultra-high breakdown strength via constructing three-dimensional covalent crosslinked structure. <i>Chemical Engineering Journal</i> , 2019, 375, 122042.	12.7	13
25	Fluorination-generated uninterrupted gradient-refractive index on commercial flexible substrates for high broadband and omnidirectional transmittance. <i>Applied Surface Science</i> , 2019, 489, 494-503.	6.1	11
26	Improving Interfacial and Compressive Properties of Aramid by Synchronously Grafting and Crosslinking. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900044.	3.6	5
27	Synthesis of A Novel Cross-linker with High Reactivity for Enhancing Compressive Strength of High-performance Organic Fibers. <i>ChemistrySelect</i> , 2019, 4, 3980-3983.	1.5	2
28	Nondestructive modification of aramid fiber based on selective reaction of external cross-linker to improve interfacial shear strength and compressive strength. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 217-224.	7.6	19
29	Mechanically Strong Chitin Fibers with Nanofibril Structure, Biocompatibility, and Biodegradability. <i>Chemistry of Materials</i> , 2019, 31, 2078-2087.	6.7	66
30	Dissolution of Aramid by Ionization of Byproduct HCl Promoted by Acetate. <i>ChemistrySelect</i> , 2019, 4, 123-129.	1.5	4
31	Mechanically Strong Multifilament Fibers Spun from Cellulose Solution via Inducing Formation of Nanofibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5314-5321.	6.7	56
32	Influences of Coagulation Conditions on the Structure and Properties of Regenerated Cellulose Filaments via Wet-Spinning in LiOH/Urea Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4056-4067.	6.7	47
33	Aramid fiber with excellent interfacial properties suitable for resin composite in a wide polarity range. <i>Chemical Engineering Journal</i> , 2018, 347, 483-492.	12.7	88
34	Highly improved Uv resistance and composite interfacial properties of aramid fiber via iron (III) coordination. <i>Applied Surface Science</i> , 2018, 434, 473-480.	6.1	42
35	Benzimidazole-containing aramid nanofiber for naked-eye detection of heavy metal ions. <i>Analyst</i> , The, 2018, 143, 5225-5233.	3.5	12
36	Surface modification of PBO fibers by direct fluorination and corresponding chemical reaction mechanism. <i>Composites Science and Technology</i> , 2018, 165, 106-114.	7.8	49

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37	The introduction of asymmetric heterocyclic units into poly(p-phenylene terephthalamide) and its effect on microstructure, interactions and properties. <i>Journal of Materials Science</i> , 2018, 53, 13291-13303.	3.7	41
38	Synthesis of Heterocyclic Aramid Fiber Based on Solid-Phase Cross-Linking of Oligomers with Reactive End Group. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800076.	3.6	15
39	A facile strategy for fabricating aramid fiber with simultaneously high compressive strength and high interfacial shear strength through cross-linking promoted by oxygen. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 233-241.	7.6	26
40	The novel high performance aramid fibers containing benzimidazole moieties and chloride substitutions. <i>Materials and Design</i> , 2018, 158, 127-135.	7.0	30
41	Grafting degradable coordination polymer on aramid fiber surface to improve its interfacial properties. <i>Materials Letters</i> , 2018, 233, 102-106.	2.6	25
42	In-situ generation of hydrated nanoparticles on commercial stainless steel mesh for durable superhydrophilicity and self-cleaning. <i>Materials and Design</i> , 2018, 157, 284-293.	7.0	15
43	Fe ³⁺ coordination induced selective fluorination of aramid fiber to suppress surface chain scission behavior and improve surface polarity. <i>Applied Surface Science</i> , 2018, 456, 221-229.	6.1	11
44	Ultrahigh strength and modulus copolyamide films with uniaxially cold-drawing induced molecular orientation. <i>High Performance Polymers</i> , 2017, 29, 58-67.	1.8	6
45	Control of Head/Tail Isomeric Structure in Polyimide and Isomerism-Derived Difference in Molecular Packing and Properties. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700404.	3.9	30
46	The dominant factor for mechanical property of polyimide films containing heterocyclic moieties: In-plane orientation, crystallization, or hydrogen bonding. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	24
47	Direct fluorination of para-aramid fibers 1: Fluorination reaction process of PPTA fiber. <i>Journal of Fluorine Chemistry</i> , 2016, 186, 12-18.	1.7	34
48	The evolution of structure and properties for copolyamide fibers containing benzimidazole units during the decomplexation of hydrogen chloride. <i>High Performance Polymers</i> , 2016, 28, 381-389.	1.8	13
49	Structural evolution of fluorinated aramid fibers with fluorination degree and dominant factor for its adhesion property. <i>Journal of Fluorine Chemistry</i> , 2016, 188, 139-146.	1.7	20
50	Pre-drawing induced evolution of phase, microstructure and property in para-aramid fibres containing benzimidazole moiety. <i>RSC Advances</i> , 2016, 6, 62695-62704.	3.6	24
51	The Effect of Asymmetric Heterocyclic Units on the Microstructure and the Improvement of Mechanical Properties of Three Rigid-Rod PI Fibers. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 853-863.	3.6	19
52	Facile preparation of highly hydrophilic, recyclable high-performance polyimide adsorbents for the removal of heavy metal ions. <i>Journal of Hazardous Materials</i> , 2016, 306, 210-219.	12.4	26
53	Enhancing mechanical properties of aromatic polyamide fibers containing benzimidazole units via temporarily suppressing hydrogen bonding and crystallization. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	13
54	Structural Evolution and Mechanical Properties of Copolyamide Fibers during Thermal Annealing. <i>Materials Science Forum</i> , 2015, 815, 515-522.	0.3	0

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55	High-performance copoly(benzimidazole-benzoxazole-imide) fibers: Fabrication, structure, and properties. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	15
56	Releasing and Freezing Phase Separation of Polyvinyl Alcohol/Silica To Control Polymorphs of Silica. <i>Crystal Growth and Design</i> , 2015, 15, 2072-2078.	3.0	4
57	The wear-resistance of composite depending on the interfacial interaction between thermoplastic polyurethane and fluorinated UHMWPE particles with or without oxygen. <i>Composites Science and Technology</i> , 2015, 106, 68-75.	7.8	34
58	The effect of Trimethylchlorosilane as a reactive additive on solution behavior of polyamide acid and properties of corresponding polyimide. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	0
59	The evolution of macromolecular packing and sudden crystallization in rigid-rod polyimide via effect of multiple H-bonding on charge transfer (CT) interactions. <i>Polymer</i> , 2014, 55, 4258-4269.	3.8	92
60	Releasing silica-confined macromolecular crystallization to enhance mechanical properties of polyimide/silica hybrid fibers. <i>Composites Science and Technology</i> , 2014, 101, 24-31.	7.8	12
61	Crystallization of inorganic silica based on interaction between polyimide and silica by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 193-198.	2.4	3
62	Increasing pretilt angle by grafting hexafluorobutyl acrylate into the surface of polyimide alignment films via electron beam irradiation. <i>Liquid Crystals</i> , 2013, 40, 435-440.	2.2	5
63	Dependence of pretilt angle on orientation and conformation of side chain with different chemical structure in polyimide film surface. <i>RSC Advances</i> , 2012, 2, 9463.	3.6	15
64	Enhancement of properties of polyimide/silica hybrid nanocomposites by benzimidazole formed hydrogen bond. <i>Polymers for Advanced Technologies</i> , 2012, 23, 1362-1368.	3.2	27
65	Preparation and characterization of novel polyimide films containing amide groups. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	31
66	Characterization of Alignment Correlation between LC Molecules and Chemical Groups on/in the Surface of Polyimide Films with Biphenyl Side Chains. <i>Macromolecules</i> , 2011, 44, 9731-9737.	4.8	32
67	All-organic filler with fractal structure for reinforcement and toughening of aromatic polyamide film. <i>Macromolecular Materials and Engineering</i> , 0, , 2200031.	3.6	0