

Yu Dai

List of Publications by Year in descending order

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26
papers

526
citations

623734

14
h-index

677142

22
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26
all docs

26
docs citations

26
times ranked

302
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	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
3	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
4	Constructing "Rigid-and-Soft" interlocking stereoscopic interphase structure of aramid fiber composites with high interfacial shear strength and toughness. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106386.	7.6	20
5	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
6	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
7	Construction of dendritic structure by nano-SiO ₂ derivate grafted with hyperbranched polyamide in aramid fiber to simultaneously improve its mechanical and compressive properties. <i>European Polymer Journal</i> , 2019, 119, 367-375.	5.4	20
8	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
9	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
10	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
11	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
12	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
13	Improving Interfacial and Compressive Properties of Aramid by Synchronously Grafting and Crosslinking. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900044.	3.6	5
14	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
15	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
16	Dissolution of Aramid by Ionization of Byproduct HCl Promoted by Acetate. <i>ChemistrySelect</i> , 2019, 4, 123-129.	1.5	4
17	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
18	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

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19	Benzimidazole-containing aramid nanofiber for naked-eye detection of heavy metal ions. <i>Analyst</i> , The, 2018, 143, 5225-5233.	3.5	12
20	In Situ Complex with byâ€product HCl and Release Chloride Ions to Dissolve Aramid. <i>ChemPhysChem</i> , 2018, 19, 2468-2471.	2.1	6
21	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
22	Synthesis of Heterocyclic Aramid Fiber Based on Solidâ€Phase Crossâ€Linking of Oligomers with Reactive End Group. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800076.	3.6	15
23	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
24	The novel high performance aramid fibers containing benzimidazole moieties and chloride substitutions. <i>Materials and Design</i> , 2018, 158, 127-135.	7.0	30
25	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
26	Control of Head/Tail Isomeric Structure in Polyimide and Isomerismâ€Derived Difference in Molecular Packing and Properties. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700404.	3.9	30