Yu Dai

List of Publications by Year
in descending order

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Version: 2024-02-01

26	526	623734	677142
papers	citations	14 h-index	22 g-index

26	26	26	302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aramid fiber with excellent interfacial properties suitable for resin composite in a wide polarity range. Chemical Engineering Journal, 2018, 347, 483-492.	12.7	88
2	Highly improved Uv resistance and composite interfacial properties of aramid fiber via iron (III) coordination. Applied Surface Science, 2018, 434, 473-480.	6.1	42
3	The introduction of asymmetric heterocyclic units into poly(p-phenylene terephthalamide) and its effect on microstructure, interactions and properties. Journal of Materials Science, 2018, 53, 13291-13303.	3.7	41
4	Control of Head/Tail Isomeric Structure in Polyimide and Isomerismâ€Derived Difference in Molecular Packing and Properties. Macromolecular Rapid Communications, 2017, 38, 1700404.	3.9	30
5	The novel high performance aramid fibers containing benzimidazole moieties and chloride substitutions. Materials and Design, 2018, 158, 127-135.	7.0	30
6	Fast and efficient oil-water separation under harsh conditions of the flexible polyimide aerogel containing benzimidazole structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 581, 123809.	4.7	30
7	Constructing mainstay-body structure in heterocyclic aramid fiber to simultaneously improve tensile strength and toughness. Composites Part B: Engineering, 2020, 202, 108411.	12.0	28
8	A facile strategy for fabricating aramid fiber with simultaneously high compressive strength and high interfacial shear strength through cross-linking promoted by oxygen. Composites Part A: Applied Science and Manufacturing, 2018, 113, 233-241.	7.6	26
9	Constructing a weaving structure for aramid fiber by carbon nanotube-based network to simultaneously improve composites interfacial properties and compressive properties. Composites Science and Technology, 2019, 182, 107721.	7.8	22
10	Construction of dendritic structure by nano-SiO2 derivate grafted with hyperbranched polyamide in aramid fiber to simultaneously improve its mechanical and compressive properties. European Polymer Journal, 2019, 119, 367-375.	5.4	20
11	Constructing â€œRigid-and-Softâ€•interlocking stereoscopic interphase structure of aramid fiber composites with high interfacial shear strength and toughness. Composites Part A: Applied Science and Manufacturing, 2021, 145, 106386.	7.6	20
12	Self-enhancement in aramid fiber by filling free hydrogen bonding interaction sites in macromolecular chains with its oligomer. Polymer, 2019, 180, 121687.	3.8	19
13	Nondestructive modification of aramid fiber based on selective reaction of external cross-linker to improve interfacial shear strength and compressive strength. Composites Part A: Applied Science and Manufacturing, 2019, 119, 217-224.	7.6	19
14	Synthesis of Heterocyclic Aramid Fiber Based on Solidâ€Phase Crossâ€Linking of Oligomers with Reactive End Group. Macromolecular Materials and Engineering, 2018, 303, 1800076.	3.6	15
15	Post-construction of weaving structure in aramid fiber towards improvements of its transverse properties. Composites Science and Technology, 2021, 208, 108780.	7.8	14
16	Preparation of novel aramid film with ultra-high breakdown strength via constructing three-dimensional covalent crosslinked structure. Chemical Engineering Journal, 2019, 375, 122042.	12.7	13
17	Benzimidazole-containing aramid nanofiber for naked-eye detection of heavy metal ions. Analyst, The, 2018, 143, 5225-5233.	3.5	12
18	Preparation of High Strength and Toughness Aramid Fiber by Introducing Flexible Asymmetric Monomer to Construct Misplacedâ€Nunchaku Structure. Macromolecular Materials and Engineering, 2021, 306, 2000814.	3.6	12

#	Article	IF	Citations
19	Fe3+ coordination induced selective fluorination of aramid fiber to suppress surface chain scission behavior and improve surface polarity. Applied Surface Science, 2018, 456, 221-229.	6.1	11
20	Fabrication of high-temperature aromatic polyamides with ultra-high breakdown strength via complex-assisted chain arrangement. Chemical Engineering Journal, 2022, 432, 134407.	12.7	8
21	In Situ Complex with byâ€product HCl and Release Chloride Ions to Dissolve Aramid. ChemPhysChem, 2018, 19, 2468-2471.	2.1	6
22	Improving Compressive Strength of Aramid Fiber by Introducing Carbon Nanotube Derivates Grafted with Oligomers of Different Conformations and Controlling Its Alignment. Macromolecular Materials and Engineering, 2019, 304, 1900127.	3.6	5
23	Improving Interfacial and Compressive Properties of Aramid by Synchronously Grafting and Crosslinking. Macromolecular Materials and Engineering, 2019, 304, 1900044.	3.6	5
24	Dissolution of Aramid by Ionization of Byproduct HCl Promoted by Acetate. ChemistrySelect, 2019, 4, 123-129.	1.5	4
25	Câ^'N Coupling Reactions on Graphene with Aromatic Macromolecules and the Spatial Conformation of Grafted Macromolecules. Chemistry - A European Journal, 2020, 26, 1819-1826.	3.3	4
26	Synthesis of A Novel Crossâ€linker with High Reactivity for Enhancing Compressive Strength of Highâ€performance Organic Fibers. ChemistrySelect, 2019, 4, 3980-3983.	1.5	2