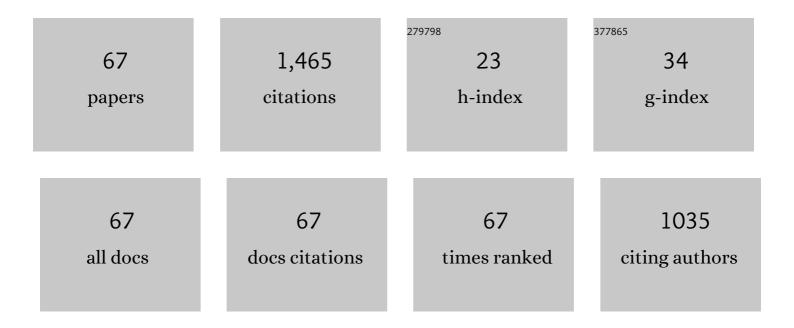
List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|--|------|-----------|
| 1 | The evolution of macromolecular packing and sudden crystallization in rigid-rod polyimide via effect of multiple H-bonding on charge transfer (CT) interactions. Polymer, 2014, 55, 4258-4269. | 3.8 | 92 |
| 2 | 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 |
| 3 | Mechanically Strong Chitin Fibers with Nanofibril Structure, Biocompatibility, and Biodegradability. Chemistry of Materials, 2019, 31, 2078-2087. | 6.7 | 66 |
| 4 | Mechanically Strong Multifilament Fibers Spun from Cellulose Solution via Inducing Formation of Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 5314-5321. | 6.7 | 56 |
| 5 | Surface modification of PBO fibers by direct fluorination and corresponding chemical reaction mechanism. Composites Science and Technology, 2018, 165, 106-114. | 7.8 | 49 |
| 6 | Influences of Coagulation Conditions on the Structure and Properties of Regenerated Cellulose Filaments via Wet-Spinning in LiOH/Urea Solvent. ACS Sustainable Chemistry and Engineering, 2018, 6, 4056-4067. | 6.7 | 47 |
| 7 | Construction of stable hydrogen bonds at high temperature for preparation of polyimide films with ultralow coefficient of thermal expansion and high Tg. Polymer, 2020, 188, 122100. | 3.8 | 44 |
| 8 | 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 |
| 9 | 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 |
| 10 | Biocompatible In Situ Polymerization of Multipurpose Polyacrylamide-Based Hydrogels on Skin via Silver Ion Catalyzation. ACS Applied Materials & Interfaces, 2020, 12, 31079-31089. | 8.0 | 36 |
| 11 | Flexible pressure sensors with high pressure sensitivity and low detection limit using a unique honeycomb-designed polyimide/reduced graphene oxide composite aerogel. RSC Advances, 2021, 11, 11760-11770. | 3.6 | 35 |
| 12 | The wear-resistance of composite depending on the interfacial interaction between thermoplastic polyurethane and fluorinated UHMWPE particles with or without oxygen. Composites Science and Technology, 2015, 106, 68-75. | 7.8 | 34 |
| 13 | Direct fluorination of para-aramid fibers 1: Fluorination reaction process of PPTA fiber. Journal of Fluorine Chemistry, 2016, 186, 12-18. | 1.7 | 34 |
| 14 | Characterization of Alignment Correlation between LC Molecules and Chemical Groups on/in the Surface of Polyimide Films with Biphenyl Side Chains. Macromolecules, 2011, 44, 9731-9737. | 4.8 | 32 |
| 15 | Preparation and characterization of novel polyimide films containing amide groups. Journal of Polymer Research, 2012, 19, 1. | 2.4 | 31 |
| 16 | Fabrication of durable superhydrophobic surfaces of polyester fabrics via fluorination-induced grafting copolymerization. Applied Surface Science, 2020, 515, 146006. | 6.1 | 31 |
| 17 | Control of Head/Tail Isomeric Structure in Polyimide and Isomerismâ€Đerived Difference in Molecular Packing and Properties. Macromolecular Rapid Communications, 2017, 38, 1700404. | 3.9 | 30 |
| 18 | The novel high performance aramid fibers containing benzimidazole moieties and chloride substitutions. Materials and Design, 2018, 158, 127-135. | 7.0 | 30 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Enhancement of properties of polyimide/silica hybrid nanocomposites by benzimidazole formed hydrogen bond. Polymers for Advanced Technologies, 2012, 23, 1362-1368. | 3.2 | 27 |
| 22 | Facile preparation of highly hydrophilic, recyclable high-performance polyimide adsorbents for the removal of heavy metal ions. Journal of Hazardous Materials, 2016, 306, 210-219. | 12.4 | 26 |
| 23 | 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 |
| 24 | Grafting degradable coordination polymer on aramid fiber surface to improve its interfacial properties. Materials Letters, 2018, 233, 102-106. | 2.6 | 25 |
| 25 | The dominant factor for mechanical property of polyimide films containing heterocyclic moieties: Inâ€plane orientation, crystallization, or hydrogen bonding. Journal of Applied Polymer Science, 2016, 133, . | 2.6 | 24 |
| 26 | Pre-drawing induced evolution of phase, microstructure and property in para-aramid fibres containing benzimidazole moiety. RSC Advances, 2016, 6, 62695-62704. | 3.6 | 24 |
| 27 | Construction of polyimide films with excellent dimensional stability and toughness via incorporating point-to-face multi-coordination structure. Composites Part B: Engineering, 2021, 208, 108566. | 12.0 | 23 |
| 28 | 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 |
| 29 | Electrospun Separator Based on Sulfonated Polyoxadiazole with Outstanding Thermal Stability and Electrochemical Properties for Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 879-887. | 5.1 | 21 |
| 30 | Structural evolution of fluorinated aramid fibers with fluorination degree and dominant factor for its adhesion property. Journal of Fluorine Chemistry, 2016, 188, 139-146. | 1.7 | 20 |
| 31 | Green and Economical Strategy for Spinning Robust Cellulose Filaments. ACS Sustainable Chemistry and Engineering, 2020, 8, 14927-14937. | 6.7 | 20 |
| 32 | Improving dimensional stability at high temperature and toughness of polyimide films via adjustable entanglement density. Polymer, 2021, 218, 123488. | 3.8 | 20 |
| 33 | The Effect of Asymmetric Heterocyclic Units on the Microstructure and the Improvement of Mechanical Properties of Three Rigidâ€Rod coâ€PI Fibers. Macromolecular Materials and Engineering, 2016, 301, 853-863. | 3.6 | 19 |
| 34 | 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 |
| 35 | 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 |
| 36 | Dependence of pretilt angle on orientation and conformation of side chain with different chemical structure in polyimide film surface. RSC Advances, 2012, 2, 9463. | 3.6 | 15 |

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|----|--|------|-----------|
| 37 | Highâ€performance copoly(benzimidazoleâ€benzoxazoleâ€imide) fibers: Fabrication, structure, and properties. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 15 |
| 38 | Synthesis of Heterocyclic Aramid Fiber Based on Solidâ€Phase Cross‣inking of Oligomers with Reactive End Group. Macromolecular Materials and Engineering, 2018, 303, 1800076. | 3.6 | 15 |
| 39 | In-situ generation of hydrated nanoparticles on commercial stainless steel mesh for durable superhydrophilicity and self-cleaning. Materials and Design, 2018, 157, 284-293. | 7.0 | 15 |
| 40 | Regulating Cu(II)-benzimidazole coordination structure in rigid-rod aramid fiber and its composites enhancement effects. Composites Science and Technology, 2019, 184, 107837. | 7.8 | 14 |
| 41 | Post-construction of weaving structure in aramid fiber towards improvements of its transverse properties. Composites Science and Technology, 2021, 208, 108780. | 7.8 | 14 |
| 42 | Enhancing mechanical properties of aromatic polyamide fibers containing benzimidazole units via temporarily suppressing hydrogen bonding and crystallization. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 13 |
| 43 | The evolution of structure and properties for copolyamide fibers–containing benzimidazole units during the decomplexation of hydrogen chloride. High Performance Polymers, 2016, 28, 381-389. | 1.8 | 13 |
| 44 | 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 |
| 45 | Releasing silica-confined macromolecular crystallization to enhance mechanical properties of polyimide/silica hybrid fibers. Composites Science and Technology, 2014, 101, 24-31. | 7.8 | 12 |
| 46 | Benzimidazole-containing aramid nanofiber for naked-eye detection of heavy metal ions. Analyst, The, 2018, 143, 5225-5233. | 3.5 | 12 |
| 47 | 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 |
| 48 | 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 |
| 49 | Fluorination-generated uninterrupted gradient-refractive index on commercial flexible substrates for high broadband and omnidirectional transmittance. Applied Surface Science, 2019, 489, 494-503. | 6.1 | 11 |
| 50 | 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 |
| 51 | Free Hâ€Bonding Interaction Sites in Rigid hain Polymers and Their Filling Approach: A Molecular Dynamics Simulation Study. Advanced Theory and Simulations, 2021, 4, 2100016. | 2.8 | 7 |
| 52 | Ultrahigh strength and modulus copolyamide films with uniaxially cold-drawing induced molecular orientation. High Performance Polymers, 2017, 29, 58-67. | 1.8 | 6 |
| 53 | Increasing pretilt angle by grafting hexafluorobutyl acrylate into the surface of polyimide alignment films via electron beam irradiation. Liquid Crystals, 2013, 40, 435-440. | 2.2 | 5 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Improving Interfacial and Compressive Properties of Aramid by Synchronously Grafting and Crosslinking. Macromolecular Materials and Engineering, 2019, 304, 1900044. | 3.6 | 5 |
| 56 | Toughening and enhancing thermostability of vitrimer rubber via adding heterocyclic aramid. Composites Communications, 2021, 28, 100934. | 6.3 | 5 |
| 57 | Synthesis of tautomerization-inhibited diamino substituted tetraphenylethene derivatives with different mechanochromisms: the vital role of chlorine. Materials Chemistry Frontiers, 2021, 5, 2387-2398. | 5.9 | 5 |
| 58 | Releasing and Freezing Phase Separation of Polyvinyl Alcohol/Silica To Control Polymorphs of Silica. Crystal Growth and Design, 2015, 15, 2072-2078. | 3.0 | 4 |
| 59 | Synergistic "Anchor―Effect of Carbon Nanotubes and Silica: A Facile and Efficient Double-Nanocomposite System To Reinforce High-Performance Polyimide Fibers. Industrial & Engineering Chemistry Research, 2019, 58, 16620-16628. | 3.7 | 4 |
| 60 | Dissolution of Aramid by Ionization of Byproduct HCl Promoted by Acetate. ChemistrySelect, 2019, 4, 123-129. | 1.5 | 4 |
| 61 | 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 |
| 62 | Crystallization of inorganic silica based on interaction between polyimide and silica by sol–gel method. Journal of Sol-Gel Science and Technology, 2013, 66, 193-198. | 2.4 | 3 |
| 63 | 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 |
| 64 | The adsorption of aromatic macromolecules on graphene with entropy-tailored behavior and its utilization in exfoliating graphite. Journal of Colloid and Interface Science, 2021, 599, 12-22. | 9.4 | 2 |
| 65 | The effect of Trimethylchlorosilane as a reactive additive on solution behavior of polyamide acid and properties of corresponding polyimide. Journal of Polymer Research, 2014, 21, 1. | 2.4 | Ο |
| 66 | Structural Evolution and Mechinical Properties of Copolyamide Fibers during Thermal Annealing. Materials Science Forum, 2015, 815, 515-522. | 0.3 | 0 |
| 67 | Allâ€organic filler with fractal structure for reinforcement and toughening of aromatic polyamide film. Macromolecular Materials and Engineering, 0, , 2200031. | 3.6 | 0 |