# Xu Wang

## List of Publications by Year in descending order

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| 146 | 3,413 | 136950 | 214800 |
|---|---|---|---|
| papers | citations | 32 h-index | 47 g-index |

| 147 | 147 | 147 | 2926 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recent Advances in Fluorinated Graphene from Synthesis to Applications: Critical Review on Functional Chemistry and Structure Engineering. Advanced Materials, 2022, 34, e2101665. | 21.0 | 90 |
| 2 | Spontaneous power generation from broad-humidity atmospheres through heterostructured F/O-bonded graphene monoliths. Nano Energy, 2022, 91, 106605. | 16.0 | 19 |
| 3 | Bioinspired three-dimensional and multiple adsorption effects toward high lubricity of solvent-free graphene-based nanofluid. Carbon, 2022, 188, 166-176. | 10.3 | 21 |
| 4 | Direct fluorination of nanographene molecules with fluorine gas. Carbon, 2022, 188, 453-460. | 10.3 | 5 |
| 5 | Oxidative evolution of Z/E-diaminotetraphenylethylene. Physical Chemistry Chemical Physics, 2022, 24, 1960-1964. | 2.8 | 2 |
| 6 | Theoretical Calculations and Experiments on the Thermal Properties of Fluorinated Graphene and Its Effects on the Thermal Decomposition of Nitrate Esters. Nanomaterials, 2022, 12, 621. | 4.1 | 8 |
| 7 | Cove-Edged Graphene Nanoribbons with Incorporation of Periodic Zigzag-Edge Segments. Journal of the American Chemical Society, 2022, 144, 228-235. | 13.7 | 28 |
| 8 | Homogeneous Fluorine Distribution in Graphene through Thermal Dissociation of Molecular F<sub>2</sub>: Implications for Thermal Conduction and Electrical Insulation. ACS Applied Nano Materials, 2022, 5, 6770-6780. | 5.0 | 5 |
| 9 | Effect of surface modification of <scp>SiO<sub>2</sub></scp> particles on the interfacial and mechanical properties of <scp>PBS</scp> composites. Polymer Composites, 2022, 43, 5087-5094. | 4.6 | 2 |
| 10 | Reaction Performance and Flow Behavior of Isobutane/1-Butene and H<sub>2</sub>SO<sub>4</sub> in the Microreactor Configured with the Micro-mixer. Industrial & Engineering Chemistry Research, 2022, 61, 9122-9135. | 3.7 | 4 |
| 11 | Controllable construction of Fluorine-Contained phase region induced by fluorination phase Transformation: Towards enhanced microwave absorption of carbon foam. Chemical Engineering Journal, 2022, 446, 137408. | 12.7 | 16 |
| 12 | Heterojunction of the CoMn Metalâ€“Organic Framework with Lanthanum for Enhanced Oxygen Evolution Reaction. ACS Applied Energy Materials, 2022, 5, 8686-8696. | 5.1 | 4 |
| 13 | Suzukiâ€“Miyaura reaction of Câ€“F bonds in fluorographene. Chemical Communications, 2021, 57, 351-354. | 4.1 | 8 |
| 14 | Regulating the Bonding Nature and Location of Câ€“F Bonds in Fluorinated Graphene by Doping Nitrogen Atoms. Industrial & Engineering Chemistry Research, 2021, 60, 875-884. | 3.7 | 14 |
| 15 | 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 |
| 16 | Free Hâ€Bonding Interaction Sites in Rigidâ€Chain Polymers and Their Filling Approach: A Molecular Dynamics Simulation Study. Advanced Theory and Simulations, 2021, 4, 2100016. | 2.8 | 7 |
| 17 | Post-construction of weaving structure in aramid fiber towards improvements of its transverse properties. Composites Science and Technology, 2021, 208, 108780. | 7.8 | 14 |
| 18 | Deliquification of Low-Productivity Natural Gas Wells with In Situ Generated Foams and Heat. Energy & Fuels, 2021, 35, 9873-9882. | 5.1 | 9 |

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|---|---|---|---|
| 19 | Heating-activated radicals of fluorinated multiwalled carbon nanotubes assisted interfacial grafting rubber composites with electromagnetic wave absorption. Composites Science and Technology, 2021, 214, 108977. | 7.8 | 7 |
| 20 | 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 |
| 21 | Noticeably enhanced microwave absorption performance via constructing molecular-level interpenetrating carbon network heterostructure. Carbon, 2021, 183, 858-871. | 10.3 | 16 |
| 22 | 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 |
| 23 | 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 |
| 24 | Thermal stability of Câ€“F/C(â€“F)<sub>2</sub> bonds in fluorinated graphene detected by in situ heating infrared spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 26853-26863. | 2.8 | 13 |
| 25 | Shape and phase controlled synthesis of mesostructured carbon single crystals through mesoscale self-assembly of reactive monomicelles and their unprecedented exfoliation into single-layered carbon nanoribbons. Journal of Colloid and Interface Science, 2020, 558, 32-37. | 9.4 | 1 |
| 26 | In-situ polymerization and covalent modification on aramid fiber surface via direct fluorination for interfacial enhancement. Composites Part B: Engineering, 2020, 182, 107608. | 12.0 | 48 |
| 27 | 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 |
| 28 | 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 |
| 29 | Direct fluorination as a one-step ATRP initiator immobilization for convenient surface grafting of phenyl ring-containing substrates. Polymer Chemistry, 2020, 11, 5693-5700. | 3.9 | 10 |
| 30 | Giant Enhancement of Fluorescence Emission by Fluorination of Porous Graphene with High Defect Density and Subsequent Application as Fe<sup>3+</sup> Ion Sensors. ACS Applied Materials & Interfaces, 2020, 12, 40662-40672. | 8.0 | 15 |
| 31 | Fabrication of Grapheneâ€Based Selfâ€Assembly Monoliths through Reversible Fluorination and Defluorination Strategy. Advanced Materials Interfaces, 2020, 7, 2000915. | 3.7 | 10 |
| 32 | Green and Economical Strategy for Spinning Robust Cellulose Filaments. ACS Sustainable Chemistry and Engineering, 2020, 8, 14927-14937. | 6.7 | 20 |
| 33 | Covalent functionalization of fluorinated graphene through activation of dormant radicals for water-based lubricants. Carbon, 2020, 167, 826-834. | 10.3 | 41 |
| 34 | A novel CPC composite cement reinforced by dopamine coated SCPP fibers with improved physicochemical and biological properties. Materials Science and Engineering C, 2020, 109, 110544. | 7.3 | 10 |
| 35 | Fabrication of durable hierarchical superhydrophobic fabrics with Sichuan pepper-like structures via graft precipitation polymerization. Applied Surface Science, 2020, 529, 147017. | 6.1 | 22 |
| 36 | Bioinspired, Artificial, Small-Diameter Vascular Grafts with Selective and Rapid Endothelialization Based on an Amniotic Membrane-Derived Hydrogel. ACS Biomaterials Science and Engineering, 2020, 6, 1603-1613. | 5.2 | 19 |

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| 37 | Toward high-efficiency photoluminescence emission by fluorination of graphene oxide: Investigations from excitation to emission evolution. Carbon, 2020, 165, 386-394. | 10.3 | 17 |
| 38 | 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 |
| 39 | Synergistic â€œAnchorâ€•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 |
| 40 | 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 |
| 41 | Preparation of Thermosetting/Thermoplastic Polyimide Foam with Pleated Cellular Structure via In Situ Simultaneous Orthogonal Polymerization. ACS Applied Polymer Materials, 2019, 1, 2430-2440. | 4.4 | 18 |
| 42 | Enhanced Osteoconductivity and Osseointegration in Calcium Polyphosphate Bioceramic Scaffold via Lithium Doping for Bone Regeneration. ACS Biomaterials Science and Engineering, 2019, 5, 5872-5880. | 5.2 | 21 |
| 43 | A promising material for bone repair: PMMA bone cement modified by dopamine-coated strontium-doped calcium polyphosphate particles. Royal Society Open Science, 2019, 6, 191028. | 2.4 | 12 |
| 44 | 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 |
| 45 | 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 |
| 46 | Preparing Nitrogen-Doped Multiwalled Carbon Nanotubes with Regionally Controllable Heterojunction Structure by Nondestructive Postdoping with the Assistance of Heating Fluorination. Journal of Physical Chemistry C, 2019, 123, 16439-16448. | 3.1 | 10 |
| 47 | 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 |
| 48 | 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 |
| 49 | In Situ Radical Polymerization and Grafting Reaction Simultaneously Initiated by Fluorinated Graphene. Langmuir, 2019, 35, 6610-6619. | 3.5 | 14 |
| 50 | Dependence of the fluorination intercalation of graphene toward high-quality fluorinated graphene formation. Chemical Science, 2019, 10, 5546-5555. | 7.4 | 33 |
| 51 | Thermally Robust Bendable Silicon Dioxide/Polyimide Layered Composite Film Through Catalytic Fluorination. ACS Applied Polymer Materials, 2019, 1, 777-786. | 4.4 | 9 |
| 52 | Improving Interfacial and Compressive Properties of Aramid by Synchronously Grafting and Crosslinking. Macromolecular Materials and Engineering, 2019, 304, 1900044. | 3.6 | 5 |
| 53 | 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 |
| 54 | 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 |

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| 55 | Mechanically Strong Chitin Fibers with Nanofibril Structure, Biocompatibility, and Biodegradability. Chemistry of Materials, 2019, 31, 2078-2087. | 6.7 | 66 |
| 56 | Nitrogen-Doping Chemical Behavior of Graphene Materials with Assistance of Defluorination. Journal of Physical Chemistry C, 2019, 123, 584-592. | 3.1 | 9 |
| 57 | Dissolution of Aramid by Ionization of Byproduct HCl Promoted by Acetate. ChemistrySelect, 2019, 4, 123-129. | 1.5 | 4 |
| 58 | Design and Electrical Analysis of Multi-Electrode Cylindrical Dielectric Barrier Discharge Plasma Reactor. IEEE Transactions on Plasma Science, 2019, 47, 419-426. | 1.3 | 8 |
| 59 | The particular phase transformation during graphene fluorination process. Carbon, 2018, 132, 271-279. | 10.3 | 26 |
| 60 | Excellent Microwave Absorbing Property of Multiwalled Carbon Nanotubes with Skinâ€“Core Heterostructure Formed by Outer Dominated Fluorination. Journal of Physical Chemistry C, 2018, 122, 6357-6367. | 3.1 | 37 |
| 61 | 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 |
| 62 | Introducing copper and collagen (via poly(DOPA)) coating to activate inert ceramic scaffolds for excellent angiogenic and osteogenic capacity. RSC Advances, 2018, 8, 15575-15586. | 3.6 | 6 |
| 63 | Skinâ€“core structured fluorinated MWCNTs: a nanofiller towards a broadband dielectric material with a high dielectric constant and low dielectric loss. Journal of Materials Chemistry C, 2018, 6, 2370-2378. | 5.5 | 25 |
| 64 | 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 |
| 65 | Radical Mechanism for the Reduction of Graphene Derivatives Initiated by Electron-Transfer Reactions. Journal of Physical Chemistry C, 2018, 122, 8473-8479. | 3.1 | 11 |
| 66 | 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 |
| 67 | Radical mechanism of a nucleophilic reaction depending on a two-dimensional structure. Physical Chemistry Chemical Physics, 2018, 20, 489-497. | 2.8 | 19 |
| 68 | Combination of support vector regression (SVR) and microwave plasma atomic emission spectrometry (MWP-AES) for quantitative elemental analysis in solid samples using the continuous direct solid sampling (CDSS) technique. Journal of Analytical Atomic Spectrometry, 2018, 33, 1954-1961. | 3.0 | 8 |
| 69 | Î©-Shaped Fiber-Optic Probe-Based Localized Surface Plasmon Resonance Biosensor for Real-Time Detection of Salmonella Typhimurium. Analytical Chemistry, 2018, 90, 13640-13646. | 6.5 | 55 |
| 70 | Benzimidazole-containing aramid nanofiber for naked-eye detection of heavy metal ions. Analyst, The, 2018, 143, 5225-5233. | 3.5 | 12 |
| 71 | Radical chain reaction mechanism of graphene fluorination. Carbon, 2018, 137, 451-457. | 10.3 | 22 |
| 72 | Surface modification of PBO fibers by direct fluorination and corresponding chemical reaction mechanism. Composites Science and Technology, 2018, 165, 106-114. | 7.8 | 49 |

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| 73 | In Situ Complex with byâ€product HCl and Release Chloride Ions to Dissolve Aramid. ChemPhysChem, 2018, 19, 2468-2471. | 2.1 | 6 |
| 74 | 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 |
| 75 | Toward Excellent Tribological Performance as Oil-Based Lubricant Additive: Particular Tribological Behavior of Fluorinated Graphene. ACS Applied Materials & Interfaces, 2018, 10, 28828-28838. | 8.0 | 85 |
| 76 | Defluorination-assisted heteroatom doping reaction with ammonia gas for synthesis of nitrogen-doped porous graphitized carbon. Chemical Engineering Journal, 2018, 354, 261-268. | 12.7 | 13 |
| 77 | Ester Crosslinking Enhanced Hydrophilic Cellulose Nanofibrils Aerogel. ACS Sustainable Chemistry and Engineering, 2018, 6, 11979-11988. | 6.7 | 51 |
| 78 | 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 |
| 79 | 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 |
| 80 | Towards enhanced tribological performance as water-based lubricant additive: Selective fluorination of graphene oxide at mild temperature. Journal of Colloid and Interface Science, 2018, 531, 138-147. | 9.4 | 56 |
| 81 | Aligned fluorinated single-walled carbon nanotubes as a transmission channel towards attenuation of broadband electromagnetic waves. Journal of Materials Chemistry C, 2018, 6, 9399-9409. | 5.5 | 43 |
| 82 | The novel high performance aramid fibers containing benzimidazole moieties and chloride substitutions. Materials and Design, 2018, 158, 127-135. | 7.0 | 30 |
| 83 | Preparation and investigation of novel SrCl2/DCMC-modified (via DOPA) decellularized arteries with excellent physicochemical properties and cytocompatibility for vascular scaffolds. RSC Advances, 2018, 8, 30098-30105. | 3.6 | 1 |
| 84 | The Friedelâ€“Crafts reaction of fluorinated graphene for high-yield arylation of graphene. Chemical Communications, 2018, 54, 10168-10171. | 4.1 | 22 |
| 85 | Low temperature preparation of highly fluorinated multiwalled carbon nanotubes activated by Fe<sub>3</sub>O<sub>4</sub> to enhance microwave absorbing property. Nanotechnology, 2018, 29, 365703. | 2.6 | 16 |
| 86 | Ultrahigh strength and modulus copolyamide films with uniaxially cold-drawing induced molecular orientation. High Performance Polymers, 2017, 29, 58-67. | 1.8 | 6 |
| 87 | Nondestructive grafting of PEI on aramid fiber surface through the coordination of Fe (â…¢) to enhance composite interfacial properties. Applied Surface Science, 2017, 401, 323-332. | 6.1 | 43 |
| 88 | Effects of the oxygenic groups on the mechanism of fluorination of graphene oxide and its structure. Physical Chemistry Chemical Physics, 2017, 19, 5504-5512. | 2.8 | 47 |
| 89 | Towards efficient microwave absorption: intrinsic heterostructure of fluorinated SWCNTs. Journal of Materials Chemistry C, 2017, 5, 11847-11855. | 5.5 | 26 |
| 90 | Biocompatibility and anti-calcification of a biological artery immobilized with naturally-occurring phytic acid as the crosslinking agent. Journal of Materials Chemistry B, 2017, 5, 8115-8124. | 5.8 | 21 |

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| 91 | 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 |
| 92 | Activation effect of porous structure on fluorination of graphene based materials with large specific surface area at mild condition. Carbon, 2017, 124, 288-295. | 10.3 | 35 |
| 93 | Investigation of the dispersion behavior of fluorinated MWCNTs in various solvents. Physical Chemistry Chemical Physics, 2017, 19, 21565-21574. | 2.8 | 17 |
| 94 | Defluorination and covalent grafting of fluorinated graphene with TEMPO in a radical mechanism. Physical Chemistry Chemical Physics, 2017, 19, 24076-24081. | 2.8 | 28 |
| 95 | Characterization of the thermal/thermal oxidative stability of fluorinated graphene with various structures. Physical Chemistry Chemical Physics, 2017, 19, 19442-19451. | 2.8 | 37 |
| 96 | 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 |
| 97 | A facile method to enhance UV stability of PBIA fibers with intense fluorescence emission by forming complex with hydrogen chloride on the fibers surface. Polymer Degradation and Stability, 2016, 128, 278-285. | 5.8 | 24 |
| 98 | The evolution of structure and properties for copolyamide fibersâ€“containing benzimidazole units during the decomplexation of hydrogen chloride. High Performance Polymers, 2016, 28, 381-389. | 1.8 | 13 |
| 99 | In vitro study of strontium doped calcium polyphosphate-modified arteries fixed by dialdehyde carboxymethyl cellulose for vascular scaffolds. International Journal of Biological Macromolecules, 2016, 93, 1583-1590. | 7.5 | 7 |
| 100 | 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 |
| 101 | Effect of molecular rigidity and hydrogen bond interaction on mechanical properties of polyimide fibers. Journal of Applied Polymer Science, 2016, 133, . | 2.6 | 29 |
| 102 | Chemical reactivity of Câ€“F bonds attached to graphene with diamines depending on their nature and location. Physical Chemistry Chemical Physics, 2016, 18, 17495-17505. | 2.8 | 42 |
| 103 | Graphene-based porous materials with tunable surface area and CO2 adsorption properties synthesized by fluorine displacement reaction with various diamines. Journal of Colloid and Interface Science, 2016, 478, 36-45. | 9.4 | 42 |
| 104 | One-Step Preparation of Oxygen/Fluorine Dual Functional MWCNTs with Good Water Dispersibility by the Initiation of Fluorine Gas. ACS Applied Materials & Interfaces, 2016, 8, 7991-7999. | 8.0 | 23 |
| 105 | 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 |
| 106 | Antibacterial activities and mechanisms of fluorinated graphene and guanidine-modified graphene. RSC Advances, 2016, 6, 8763-8772. | 3.6 | 23 |
| 107 | Controllable defluorination of fluorinated graphene and weakening of Câ€“F bonding under the action of nucleophilic dipolar solvent. Physical Chemistry Chemical Physics, 2016, 18, 3285-3293. | 2.8 | 54 |
| 108 | Surface modification of strontium-doped porous bioactive ceramic scaffolds via poly(DOPA) coating and immobilizing silk fibroin for excellent angiogenic and osteogenic properties. Biomaterials Science, 2016, 4, 678-688. | 5.4 | 56 |

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|---|---|---|---|
| 109 | 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 |
| 110 | Characterization of Conformation and Locations of Câ€“F Bonds in Graphene Derivative by Polarized ATR-FTIR. Analytical Chemistry, 2016, 88, 3926-3934. | 6.5 | 63 |
| 111 | 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 |
| 112 | The reaction kinetics and mechanism of crude fluoroelastomer vulcanized by direct fluorination with fluorine/nitrogen gas. RSC Advances, 2015, 5, 18932-18938. | 3.6 | 12 |
| 113 | Highâ€performance copoly(benzimidazoleâ€benzoxazoleâ€imide) fibers: Fabrication, structure, and properties. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 15 |
| 114 | Catalysis and inhibition of benzimidazole units on thermal imidization of poly(amic acid) via hydrogen bonding interactions. Chinese Journal of Polymer Science (English Edition), 2015, 33, 621-632. | 3.8 | 11 |
| 115 | In situ preparation and characterization of polyimide/silica composite hemispheres by inverse aqueous emulsion technique and sol-gel method. Colloid and Polymer Science, 2015, 293, 1281-1287. | 2.1 | 9 |
| 116 | Crosslinking effect of dialdehyde starch (DAS) on decellularized porcine aortas for tissue engineering. International Journal of Biological Macromolecules, 2015, 79, 813-821. | 7.5 | 28 |
| 117 | Reduction and transformation of fluorinated graphene induced by ultraviolet irradiation. Physical Chemistry Chemical Physics, 2015, 17, 24056-24062. | 2.8 | 39 |
| 118 | Various surface functionalizations of ultra-high-molecular-weight polyethylene based on fluorine-activation behavior. RSC Advances, 2015, 5, 79081-79089. | 3.6 | 12 |
| 119 | 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 |
| 120 | Feasibility study of the naturally occurring dialdehyde carboxymethyl cellulose for biological tissue fixation. Carbohydrate Polymers, 2015, 115, 54-61. | 10.2 | 29 |
| 121 | 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 | 0 |
| 122 | Influence of hydrogenâ€bonding interaction introduced by filled oligomer on bulk properties of blended polyimide films. Journal of Applied Polymer Science, 2014, 131, . | 2.6 | 5 |
| 123 | A composite with excellent tribological performance derived from oxy-fluorinated UHMWPE particle/polyurethane. RSC Advances, 2014, 4, 9321. | 3.6 | 8 |
| 124 | Controlled drug release from a novel drug carrier of calcium polyphosphate/chitosan/aldehyde alginate scaffolds containing chitosan microspheres. RSC Advances, 2014, 4, 24810. | 3.6 | 7 |
| 125 | Fluorographene with High Fluorine/Carbon Ratio: A Nanofiller for Preparing Low-Î² Polyimide Hybrid Films. ACS Applied Materials & Interfaces, 2014, 6, 16182-16188. | 8.0 | 85 |
| 126 | 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 |

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| 127 | Crystallization of inorganic silica based on interaction between polyimide and silica by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2013, 66, 193-198. | 2.4 | 3 |
| 128 | High-Yield Production of Highly Fluorinated Graphene by Direct Heating Fluorination of Graphene-oxide. ACS Applied Materials & Interfaces, 2013, 5, 8294-8299. | 8.0 | 152 |
| 129 | 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 |
| 130 | Molecular packing and properties of poly(benzoxazole-benzimidazole-imide) copolymers. Polymer Chemistry, 2012, 3, 1517. | 3.9 | 106 |
| 131 | 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 |
| 132 | Study of the orientation of liquid crystal molecules on polyimide alignment films by FTIR with polarisation mode. Liquid Crystals, 2012, 39, 813-817. | 2.2 | 8 |
| 133 | Enhancement of properties of polyimide/silica hybrid nanocomposites by benzimidazole formed hydrogen bond. Polymers for Advanced Technologies, 2012, 23, 1362-1368. | 3.2 | 27 |
| 134 | Preparation and characterization of novel polyimide films containing amide groups. Journal of Polymer Research, 2012, 19, 1. | 2.4 | 31 |
| 135 | Correlation of pretilt angles and surface chemical structures of polyimide alignment films after direct fluorination. Polymer International, 2010, 59, 1622-1629. | 3.1 | 4 |
| 136 | Effect of the skeleton structures in the side chain of polyimides on their film surface properties and pretilt angles of liquid crystal molecules. Liquid Crystals, 2010, 37, 1013-1019. | 2.2 | 1 |
| 137 | Preparation of novel polyimides containing aryl ester side chains end-capped with alkoxy groups and studies on their surface properties. Liquid Crystals, 2010, 37, 399-406. | 2.2 | 1 |
| 138 | Effect of a biphenyl side chain of polyimide on the pretilt angle of liquid crystal molecules: molecular simulation and experimental studies. Liquid Crystals, 2010, 37, 149-158. | 2.2 | 9 |
| 139 | Preparation of vertical alignment layers by blending polyimide precursors with and without side chains. Liquid Crystals, 2009, 36, 173-178. | 2.2 | 8 |
| 140 | Correlation between hydrogenâ€bonding interaction and mechanical properties of polyimide fibers. Polymers for Advanced Technologies, 2009, 20, 362-366. | 3.2 | 75 |
| 141 | Stretching induced steric interaction between backbone and side chain in a novel polyimide fiber. Polymer Engineering and Science, 2009, 49, 1225-1233. | 3.1 | 7 |
| 142 | The influence of fluorine atoms introduced into the surface of polyimide films by direct fluorination on the liquid crystal alignment. Liquid Crystals, 2009, 37, 115-119. | 2.2 | 6 |
| 143 | Structure and properties of novel PMDA/ODA/PABZ polyimide fibers. Polymer Engineering and Science, 2008, 48, 912-917. | 3.1 | 44 |
| 144 | Preparation and characterization of lithiumâ€8â€hydroxyquinolateâ€containing quaternary ammonium copolymers and their electrostatic layerâ€byâ€layer selfâ€assembly. Journal of Applied Polymer Science, 2008, 110, 124-133. | 2.6 | 0 |

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| 145 | Novel aromatic polyimide fiber with biphenyl side-groups: Dope synthesis and filament internal morphology control. Polymer Engineering and Science, 2006, 46, 123-128. | 3.1 | 23 |
| 146 | Allâ€organic filler with fractal structure for reinforcement and toughening of aromatic polyamide film. Macromolecular Materials and Engineering, 0, , 2200031. | 3.6 | 0 |