# Kun Dai

List of Publications by Year
in descending order

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| 173 | 12,726 | 19657 61 | 26613 107 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 173 | 173 | 173 | 8566 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Lightweight conductive graphene/thermoplastic polyurethane foams with ultrahigh compressibility for piezoresistive sensing. Journal of Materials Chemistry C, 2017, 5, 73-83. | 5.5 | 576 |
| 2 | Electrically conductive polymer composites for smart flexible strain sensors: a critical review. Journal of Materials Chemistry C, 2018, 6, 12121-12141. | 5.5 | 522 |
| 3 | Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications. Journal of Materials Chemistry C, 2016, 4, 157-166. | 5.5 | 484 |
| 4 | Electrically conductive strain sensing polyurethane nanocomposites with synergistic carbon nanotubes and graphene bifillers. Nanoscale, 2016, 8, 12977-12989. | 5.6 | 464 |
| 5 | Continuously prepared highly conductive and stretchable SWNT/MWNT synergistically composited electrospun thermoplastic polyurethane yarns for wearable sensing. Journal of Materials Chemistry C, 2018, 6, 2258-2269. | 5.5 | 376 |
| 6 | Flexible electrically resistive-type strain sensors based on reduced graphene oxide-decorated electrospun polymer fibrous mats for human motion monitoring. Carbon, 2018, 126, 360-371. | 10.3 | 367 |
| 7 | The effect of filler dimensionality on the electromechanical performance of polydimethylsiloxane based conductive nanocomposites for flexible strain sensors. Composites Science and Technology, 2017, 139, 64-73. | 7.8 | 300 |
| 8 | A highly stretchable and stable strain sensor based on hybrid carbon nanofillers/polydimethylsiloxane conductive composites for large human motions monitoring. Composites Science and Technology, 2018, 156, 276-286. | 7.8 | 276 |
| 9 | Significant Stretchability Enhancement of a Crack-Based Strain Sensor Combined with High Sensitivity and Superior Durability for Motion Monitoring. ACS Applied Materials & Interfaces, 2019, 11, 7405-7414. | 8.0 | 243 |
| 10 | Carbon Nanotubes-Adsorbed Electrospun PA66 Nanofiber Bundles with Improved Conductivity and Robust Flexibility. ACS Applied Materials & Interfaces, 2016, 8, 14150-14159. | 8.0 | 241 |
| 11 | Comparative assessment of the strain-sensing behaviors of polylactic acid nanocomposites: reduced graphene oxide or carbon nanotubes. Journal of Materials Chemistry C, 2017, 5, 2318-2328. | 5.5 | 236 |
| 12 | Lightweight and Robust Carbon Nanotube/Polyimide Foam for Efficient and Heat-Resistant Electromagnetic Interference Shielding and Microwave Absorption. ACS Applied Materials & Interfaces, 2020, 12, 8704-8712. | 8.0 | 227 |
| 13 | Flexible and Lightweight Pressure Sensor Based on Carbon Nanotube/Thermoplastic Polyurethane-Aligned Conductive Foam with Superior Compressibility and Stability. ACS Applied Materials & Interfaces, 2017, 9, 42266-42277. | 8.0 | 225 |
| 14 | Ultra-Stretchable, durable and conductive hydrogel with hybrid double network as high performance strain sensor and stretchable triboelectric nanogenerator. Nano Energy, 2020, 76, 105035. | 16.0 | 209 |
| 15 | Organic vapor sensing behaviors of conductive thermoplastic polyurethaneâ€“graphene nanocomposites. Journal of Materials Chemistry C, 2016, 4, 4459-4469. | 5.5 | 198 |
| 16 | Asymmetric conductive polymer composite foam for absorption dominated ultra-efficient electromagnetic interference shielding with extremely low reflection characteristics. Journal of Materials Chemistry A, 2020, 8, 9146-9159. | 10.3 | 196 |
| 17 | Electrically conductive carbon black (CB) filled in situ microfibrillar poly(ethylene terephthalate) (PET)/polyethylene (PE) composite with a selective CB distribution. Polymer, 2007, 48, 849-859. | 3.8 | 194 |
| 18 | Highly stretchable and durable strain sensor based on carbon nanotubes decorated thermoplastic polyurethane fibrous network with aligned wave-like structure. Chemical Engineering Journal, 2019, 360, 762-777. | 12.7 | 190 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Environment Tolerant Conductive Nanocomposite Organohydrogels as Flexible Strain Sensors and Power Sources for Sustainable Electronics. Advanced Functional Materials, 2021, 31, 2101696. | 14.9 | 179 |
| 20 | Ultra-stretchable triboelectric nanogenerator as high-sensitive and self-powered electronic skins for energy harvesting and tactile sensing. Nano Energy, 2020, 70, 104546. | 16.0 | 171 |
| 21 | A comparison between strain sensing behaviors of carbon black/polypropylene and carbon nanotubes/polypropylene electrically conductive composites. Composites Part A: Applied Science and Manufacturing, 2013, 48, 129-136. | 7.6 | 159 |
| 22 | Electrically conductive thermoplastic polyurethane/polypropylene nanocomposites with selectively distributed graphene. Polymer, 2016, 97, 11-19. | 3.8 | 159 |
| 23 | Conductive thermoplastic polyurethane composites with tunable piezoresistivity by modulating the filler dimensionality for flexible strain sensors. Composites Part A: Applied Science and Manufacturing, 2017, 101, 41-49. | 7.6 | 155 |
| 24 | Flexible and wearable carbon black/thermoplastic polyurethane foam with a pinnate-veined aligned porous structure for multifunctional piezoresistive sensors. Chemical Engineering Journal, 2020, 382, 122985. | 12.7 | 153 |
| 25 | Superhydrophobic Shish-kebab Membrane with Self-Cleaning and Oil/Water Separation Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 9866-9875. | 6.7 | 147 |
| 26 | Multifunctional flexible carbon black/polydimethylsiloxane piezoresistive sensor with ultrahigh linear range, excellent durability and oil/water separation capability. Chemical Engineering Journal, 2019, 372, 373-382. | 12.7 | 146 |
| 27 | Smart strain sensing organicâ€“inorganic hybrid hydrogels with nano barium ferrite as the cross-linker. Journal of Materials Chemistry C, 2019, 7, 2353-2360. | 5.5 | 142 |
| 28 | A Highly Sensitive and Stretchable Yarn Strain Sensor for Human Motion Tracking Utilizing a Wrinkle-Assisted Crack Structure. ACS Applied Materials & Interfaces, 2019, 11, 36052-36062. | 8.0 | 141 |
| 29 | Ultra-stretchable, sensitive and durable strain sensors based on polydopamine encapsulated carbon nanotubes/elastic bands. Journal of Materials Chemistry C, 2018, 6, 8160-8170. | 5.5 | 131 |
| 30 | A highly stretchable carbon nanotubes/thermoplastic polyurethane fiber-shaped strain sensor with porous structure for human motion monitoring. Composites Science and Technology, 2018, 168, 126-132. | 7.8 | 127 |
| 31 | High-Performance Wearable Strain Sensor Based on Graphene/Cotton Fabric with High Durability and Low Detection Limit. ACS Applied Materials & Interfaces, 2020, 12, 1474-1485. | 8.0 | 125 |
| 32 | Ultralight carbon nanotube/graphene/polyimide foam with heterogeneous interfaces for efficient electromagnetic interference shielding and electromagnetic wave absorption. Carbon, 2021, 176, 118-125. | 10.3 | 122 |
| 33 | Flexible conductive polymer composites for smart wearable strain sensors. SmartMat, 2020, 1, e1010. | 10.7 | 119 |
| 34 | Highly Stretchable and Sensitive Strain Sensor with Porous Segregated Conductive Network. ACS Applied Materials & Interfaces, 2019, 11, 37094-37102. | 8.0 | 116 |
| 35 | Bioinspired Multifunctional Photonicâ€Electronic Smart Skin for Ultrasensitive Health Monitoring, for Visual and Selfâ€Powered Sensing. Advanced Materials, 2021, 33, e2102332. | 21.0 | 107 |
| 36 | Multifunctional stretchable strain sensor based on polydopamine/ reduced graphene oxide/ electrospun thermoplastic polyurethane fibrous mats for human motion detection and environment monitoring. Composites Part B: Engineering, 2020, 183, 107696. | 12.0 | 104 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Piezoresistive behavior of porous carbon nanotube-thermoplastic polyurethane conductive nanocomposites with ultrahigh compressibility. Applied Physics Letters, 2016, 108, . | 3.3 | 102 |
| 38 | A super-stretchable and tough functionalized boron nitride/PEDOT:PSS/poly(N-isopropylacrylamide) hydrogel with self-healing, adhesion, conductive and photothermal activity. Journal of Materials Chemistry A, 2019, 7, 8204-8209. | 10.3 | 101 |
| 39 | A flexible and self-formed sandwich structure strain sensor based on AgNW decorated electrospun fibrous mats with excellent sensing capability and good oxidation inhibition properties. Journal of Materials Chemistry C, 2017, 5, 7035-7042. | 5.5 | 100 |
| 40 | Conductive herringbone structure carbon nanotube/thermoplastic polyurethane porous foam tuned by epoxy for high performance flexible piezoresistive sensor. Composites Science and Technology, 2017, 149, 166-177. | 7.8 | 99 |
| 41 | A tunable strain sensor based on a carbon nanotubes/electrospun polyamide 6 conductive nanofibrous network embedded into poly(vinyl alcohol) with self-diagnosis capabilities. Journal of Materials Chemistry C, 2017, 5, 4408-4418. | 5.5 | 98 |
| 42 | Low-temperature carbonized carbon nanotube/cellulose aerogel for efficient microwave absorption. Composites Part B: Engineering, 2021, 220, 108985. | 12.0 | 95 |
| 43 | Strain sensing behaviors of epoxy nanocomposites with carbon nanotubes under cyclic deformation. Polymer, 2017, 112, 1-9. | 3.8 | 94 |
| 44 | Design of Helically Double-Leveled Gaps for Stretchable Fiber Strain Sensor with Ultralow Detection Limit, Broad Sensing Range, and High Repeatability. ACS Applied Materials & Interfaces, 2019, 11, 4345-4352. | 8.0 | 91 |
| 45 | Facile fabrication of triboelectric nanogenerator based on low-cost thermoplastic polymeric fabrics for large-area energy harvesting and self-powered sensing. Nano Energy, 2019, 65, 104068. | 16.0 | 89 |
| 46 | Superior and highly absorbed electromagnetic interference shielding performance achieved by designing the reflection-absorption-integrated shielding compartment with conductive wall and lossy core. Chemical Engineering Journal, 2020, 393, 124644. | 12.7 | 87 |
| 47 | Ultra-sensitive and durable strain sensor with sandwich structure and excellent anti-interference ability for wearable electronic skins. Composites Science and Technology, 2020, 200, 108448. | 7.8 | 85 |
| 48 | Continuous fabrication of polymer microfiber bundles with interconnected microchannels for oil/water separation. Applied Materials Today, 2017, 9, 77-81. | 4.3 | 84 |
| 49 | Ultrastretchable Multilayered Fiber with a Hollow-Monolith Structure for High-Performance Strain Sensor. ACS Applied Materials & Interfaces, 2018, 10, 34592-34603. | 8.0 | 81 |
| 50 | Highly stretchable and durable fiber-shaped strain sensor with porous core-sheath structure for human motion monitoring. Composites Science and Technology, 2020, 189, 108038. | 7.8 | 81 |
| 51 | Self-assembled reduced graphene oxide/nickel nanofibers with hierarchical core-shell structure for enhanced electromagnetic wave absorption. Carbon, 2020, 167, 530-540. | 10.3 | 80 |
| 52 | Continuously fabricated transparent conductive polycarbonate/carbon nanotube nanocomposite films for switchable thermochromic applications. Journal of Materials Chemistry C, 2018, 6, 8360-8371. | 5.5 | 79 |
| 53 | Electrical conductivity and major mechanical and thermal properties of carbon nanotubeâ€filled polyurethane foams. Journal of Applied Polymer Science, 2011, 120, 3014-3019. | 2.6 | 77 |
| 54 | Aligned flexible conductive fibrous networks for highly sensitive, ultrastretchable and wearable strain sensors. Journal of Materials Chemistry C, 2018, 6, 6575-6583. | 5.5 | 77 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Ultrathin, flexible transparent Joule heater with fast response time based on single-walled carbon nanotubes/poly(vinyl alcohol) film. Composites Science and Technology, 2019, 183, 107796. | 7.8 | 77 |
| 56 | Highly Stretchable, Transparent, and Bioâ€Friendly Strain Sensor Based on Selfâ€Recovery Ionicâ€Covalent Hydrogels for Human Motion Monitoring. Macromolecular Materials and Engineering, 2019, 304, 1900227. | 3.6 | 71 |
| 57 | Remarkably anisotropic conductive MWCNTs/polypropylene nanocomposites with alternating microlayers. Chemical Engineering Journal, 2019, 358, 924-935. | 12.7 | 70 |
| 58 | Mechanical enhancement of melt-stretched Î²-nucleated isotactic polypropylene: The role of lamellar branching of Î²-crystal. Polymer Testing, 2017, 58, 227-235. | 4.8 | 69 |
| 59 | Tunable and Nacreâ€Mimetic Multifunctional Electronic Skins for Highly Stretchable Contactâ€Noncontact Sensing. Small, 2021, 17, e2100542. | 10.0 | 69 |
| 60 | Heating-induced negative temperature coefficient effect in conductive graphene/polymer ternary nanocomposites with a segregated and double-percolated structure. Journal of Materials Chemistry C, 2017, 5, 8233-8242. | 5.5 | 66 |
| 61 | Ultra-stretchable and multifunctional wearable electronics for superior electromagnetic interference shielding, electrical therapy and biomotion monitoring. Journal of Materials Chemistry A, 2021, 9, 7238-7247. | 10.3 | 65 |
| 62 | Tuning of vapor sensing behaviors of eco-friendly conductive polymer composites utilizing ramie fiber. Sensors and Actuators B: Chemical, 2015, 221, 1279-1289. | 7.8 | 64 |
| 63 | Ultraâ€Stretchable Porous Fiberâ€Shaped Strain Sensor with Exponential Response in Full Sensing Range and Excellent Antiâ€Interference Ability toward Buckling, Torsion, Temperature, and Humidity. Advanced Electronic Materials, 2019, 5, 1900538. | 5.1 | 63 |
| 64 | A Healable and Mechanically Enhanced Composite with Segregated Conductive Network Structure for High-Efficient Electromagnetic Interference Shielding. Nano-Micro Letters, 2021, 13, 162. | 27.0 | 62 |
| 65 | Hollow-porous fibers for intrinsically thermally insulating textiles and wearable electronics with ultrahigh working sensitivity. Materials Horizons, 2021, 8, 1037-1046. | 12.2 | 59 |
| 66 | Electrically conductive in situ microfibrillar composite with a selective carbon black distribution: An unusual resistivityâ€“temperature behavior upon cooling. Polymer, 2008, 49, 1037-1048. | 3.8 | 58 |
| 67 | Crystalline Structure of Injection Molded Î²-Isotactic Polypropylene: Analysis of the Oriented Shear Zone. Industrial & Engineering Chemistry Research, 2013, 52, 11996-12002. | 3.7 | 58 |
| 68 | Segregated conductive polymer composite with synergistically electrical and mechanical properties. Composites Part A: Applied Science and Manufacturing, 2018, 105, 68-77. | 7.6 | 55 |
| 69 | Interfacial interaction enhancement by shear-induced Î²-cylindrite in isotactic polypropylene/glass fiber composites. Polymer, 2016, 100, 111-118. | 3.8 | 54 |
| 70 | Multifunctional interlocked e-skin based on elastic micropattern array facilely prepared by hot-air-gun. Chemical Engineering Journal, 2021, 407, 127960. | 12.7 | 54 |
| 71 | Facile heteroatom doping of biomass-derived carbon aerogels with hierarchically porous architecture and hybrid conductive network: Towards high electromagnetic interference shielding effectiveness and high absorption coefficient. Composites Part B: Engineering, 2021, 224, 109175. | 12.0 | 50 |
| 72 | Vapor sensing performance as a diagnosis probe to estimate the distribution of multi-walled carbon nanotubes in poly(lactic acid)/polypropylene conductive composites. Sensors and Actuators B: Chemical, 2018, 255, 2809-2819. | 7.8 | 41 |

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|---|---|---|---|
| 73 | An electrically conductive polymer composite with a co-continuous segregated structure for enhanced mechanical performance. Journal of Materials Chemistry C, 2020, 8, 11546-11554. | 5.5 | 40 |
| 74 | Morphological comparison of isotactic polypropylene molded by water-assisted and conventional injection molding. Journal of Materials Science, 2011, 46, 7830-7838. | 3.7 | 39 |
| 75 | Electrically conductive carbon black/electrospun polyamide 6/poly(vinyl alcohol) composite based strain sensor with ultrahigh sensitivity and favorable repeatability. Materials Letters, 2019, 236, 60-63. | 2.6 | 39 |
| 76 | Highly Thermally Conductive Graphene-Based Thermal Interface Materials with a Bilayer Structure for Central Processing Unit Cooling. ACS Applied Materials & Interfaces, 2021, 13, 25325-25333. | 8.0 | 39 |
| 77 | Nacre-inspired tunable strain sensor with synergistic interfacial interaction for sign language interpretation. Nano Energy, 2021, 90, 106606. | 16.0 | 39 |
| 78 | Annealing Induced Mechanical Reinforcement of Injection Molded iPP Parts. Macromolecular Materials and Engineering, 2016, 301, 1468-1472. | 3.6 | 38 |
| 79 | Highly enhanced microwave absorption for carbon nanotube/barium ferrite composite with ultra-low carbon nanotube loading. Journal of Materials Science and Technology, 2022, 102, 115-122. | 10.7 | 37 |
| 80 | Anomalous attenuation of the positive temperature coefficient of resistivity in a carbon-black-filled polymer composite with electrically conductive in situ microfibrils. Applied Physics Letters, 2006, 89, 032105. | 3.3 | 36 |
| 81 | Tuning of liquid sensing performance of conductive carbon black (CB)/polypropylene (PP) composite utilizing a segregated structure. Composites Part A: Applied Science and Manufacturing, 2013, 55, 11-18. | 7.6 | 36 |
| 82 | Wide distribution of shish-kebab structure and tensile property of micro-injection-molded isotactic polypropylene microparts: a comparative study with injection-molded macroparts. Journal of Materials Science, 2014, 49, 1041-1048. | 3.7 | 36 |
| 83 | Steric stabilizer-based promotion of uniform polyaniline shell for enhanced electromagnetic wave absorption of carbon nanotube/polyaniline hybrids. Composites Part B: Engineering, 2020, 199, 108309. | 12.0 | 36 |
| 84 | Multi-functional and flexible helical fiber sensor for micro-deformation detection, temperature sensing and ammonia gas monitoring. Composites Part B: Engineering, 2021, 211, 108621. | 12.0 | 35 |
| 85 | Stretchable, Sensitive Strain Sensors with a Wide Workable Range and Low Detection Limit for Wearable Electronic Skins. ACS Applied Materials & Interfaces, 2022, 14, 4562-4570. | 8.0 | 35 |
| 86 | Interface and electronic structure engineering induced Prussian blue analogues with ultra-stable capability for aqueous NH<sub>4</sub><sup>+</sup>storage. Nanoscale, 2022, 14, 8501-8509. | 5.6 | 35 |
| 87 | Synergistic effect of carbon fibers on the conductive properties of a segregated carbon black/polypropylene composite. Materials Letters, 2014, 129, 72-75. | 2.6 | 33 |
| 88 | Highly linear and low hysteresis porous strain sensor for wearable electronic skins. Composites Communications, 2021, 26, 100809. | 6.3 | 33 |
| 89 | Tuning of the PTC and NTC effects of conductive CB/PA6/HDPE composite utilizing an electrically superfine electrospun network. Materials Letters, 2014, 132, 48-51. | 2.6 | 32 |
| 90 | Shear-induced interfacial sheath structure in isotactic polypropylene/glass fiber composites. Polymer, 2015, 70, 326-335. | 3.8 | 32 |

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|---|---|---|---|
| 91 | Temperature-resistivity characteristics of a segregated conductive CB/PP/UHMWPE composite. Colloid and Polymer Science, 2014, 292, 2891-2898. | 2.1 | 30 |
| 92 | Positive Temperature Coefficient (PTC) Evolution of Segregated Structural Conductive Polypropylene Nanocomposites with Visually Traceable Carbon Black Conductive Network. Advanced Materials Interfaces, 2017, 4, 1700265. | 3.7 | 30 |
| 93 | Bridging the segregated structure in conductive polypropylene composites: An effective strategy to balance the sensitivity and stability of strain sensing performances. Composites Science and Technology, 2018, 163, 18-25. | 7.8 | 30 |
| 94 | Anisotropic Conductive Polymer Composites Based on High Density Polyethylene/Carbon Nanotube/Polyoxyethylene Mixtures for Microcircuits Interconnection and Organic Vapor Sensor. ACS Applied Nano Materials, 2019, 2, 3636-3647. | 5.0 | 30 |
| 95 | Spontaneous exfoliation and tailoring derived oxygen-riched porous carbon nanosheets for superior Li+ storage performance. Chemical Engineering Journal, 2020, 387, 124104. | 12.7 | 30 |
| 96 | Liquid sensing behaviors of conductive polypropylene composites containing hybrid fillers of carbon fiber and carbon black. Composites Part B: Engineering, 2016, 94, 45-51. | 12.0 | 29 |
| 97 | Organic vapor sensing behaviors of carbon black/poly (lactic acid) conductive biopolymer composite. Colloid and Polymer Science, 2013, 291, 2871-2878. | 2.1 | 28 |
| 98 | Continuous fabrication of polyethylene microfibrilar bundles for wearable personal thermal management fabric. Applied Surface Science, 2021, 549, 149255. | 6.1 | 28 |
| 99 | Flexible and heat-resistant carbon nanotube/graphene/polyimide foam for broadband microwave absorption. Composites Science and Technology, 2021, 212, 108848. | 7.8 | 28 |
| 100 | Positive temperature coefficient and timeâ€dependent resistivity of carbon nanotubes (CNTs)/ultrahigh molecular weight polyethylene (UHMWPE) composite. Journal of Applied Polymer Science, 2009, 114, 1002-1010. | 2.6 | 27 |
| 101 | Transparent Conductive Flexible Trilayer Films for a Deicing Window and Self-Recover Bending Sensor Based on a Single-Walled Carbon Nanotube/Polyvinyl Butyral Interlayer. ACS Applied Materials & Interfaces, 2020, 12, 1454-1464. | 8.0 | 27 |
| 102 | Highly stretchable and durable fibrous strain sensor with growth ring-like spiral structure for wearable electronics. Composites Part B: Engineering, 2021, 225, 109275. | 12.0 | 27 |
| 103 | Dual-functional thermal management materials for highly thermal conduction and effectively heat generation. Composites Part B: Engineering, 2022, 242, 110084. | 12.0 | 27 |
| 104 | Particle size induced tunable positive temperature coefficient characteristics in electrically conductive carbon nanotubes/polypropylene composites. Materials Letters, 2016, 182, 314-317. | 2.6 | 26 |
| 105 | Segregated conductive CNTs/HDPE/UHMWPE composites fabricated by plunger type injection molding. Materials Letters, 2018, 229, 13-16. | 2.6 | 26 |
| 106 | An Ultrasensitive, Durable and Stretchable Strain Sensor with Crack-wrinkle Structure for Human Motion Monitoring. Chinese Journal of Polymer Science (English Edition), 2021, 39, 316-326. | 3.8 | 26 |
| 107 | New insight into lamellar branching of Î²-nucleated isotactic polypropylene upon melt-stretching: WAXD and SAXS study. Journal of Materials Science, 2015, 50, 599-604. | 3.7 | 25 |
| 108 | Large-area fabrication and applications of patterned surface with anisotropic superhydrophobicity. Applied Surface Science, 2020, 529, 147027. | 6.1 | 25 |

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|---|---|---|---|
| 109 | Facile Construction of a Superhydrophobic Surface on a Textile with Excellent Electrical Conductivity and Stretchability. Industrial & Engineering Chemistry Research, 2020, 59, 7546-7553. | 3.7 | 25 |
| 110 | Anomalous attenuation and structural origin of positive temperature coefficient (PTC) effect in a carbon black (CB)/poly(ethylene terephthalate) (PET)/polyethylene (PE) electrically conductive microfibrillar polymer composite with a preferential CB distribution. Journal of Applied Polymer Science, 2012, 125, E561. | 2.6 | 24 |
| 111 | Realizing the simultaneously improved toughness and strength ofÂultra-thin LLDPE parts through annealing. Polymer, 2013, 54, 6843-6852. | 3.8 | 24 |
| 112 | Hierarchical nanofibrous mat via water-assisted electrospinning for self-powered ultrasensitive vibration sensors. Nano Energy, 2022, 97, 107149. | 16.0 | 24 |
| 113 | Pre-shear induced anomalous distribution of Î²-form in injection molded iPP. Polymer Testing, 2013, 32, 545-552. | 4.8 | 23 |
| 114 | Green Production of Covalently Functionalized Boron Nitride Nanosheets via Saccharide-Assisted Mechanochemical Exfoliation. ACS Sustainable Chemistry and Engineering, 2021, 9, 11155-11162. | 6.7 | 23 |
| 115 | Programmable micropatterned surface for single-layer homogeneous-polymer Janus actuator. Chemical Engineering Journal, 2022, 430, 133052. | 12.7 | 23 |
| 116 | Enhanced orientation of the waterâ€assisted injectionâ€molded ipp in the presence of nucleating agent. Polymer Engineering and Science, 2012, 52, 725-732. | 3.1 | 22 |
| 117 | Conductive network formation during annealing of an oriented polyethylene-based composite. Journal of Materials Science, 2012, 47, 3713-3719. | 3.7 | 21 |
| 118 | Unexpected molecular weight dependence of shish kebab in waterâ€assisted injection molded HDPE. Polymers for Advanced Technologies, 2013, 24, 270-272. | 3.2 | 21 |
| 119 | Interfacial adhesion enhanced flexible polycarbonate/carbon nanotubes transparent conductive film for vapor sensing. Composites Communications, 2019, 15, 80-86. | 6.3 | 21 |
| 120 | Building of multifunctional and hierarchical HxMoO3/PNIPAM hydrogel for high-efficiency solar vapor generation. Green Energy and Environment, 2022, 7, 1006-1013. | 8.7 | 21 |
| 121 | Bioinspired Concentric-Cylindrical Multilayered Scaffolds with Controllable Architectures: Facile Preparation and Biological Applications. ACS Applied Materials & Interfaces, 2018, 10, 43512-43522. | 8.0 | 20 |
| 122 | Amorphous MnSiO3 confined in graphene sheets for superior lithium-ion batteries. Journal of Alloys and Compounds, 2019, 804, 243-251. | 5.5 | 20 |
| 123 | Highly Stretchable Sheathâ€“Core Yarns for Multifunctional Wearable Electronics. ACS Applied Materials & Interfaces, 2020, 12, 29717-29727. | 8.0 | 20 |
| 124 | Electrical Properties of an Ultralight Conductive Carbon Nanotube/Polymer Composite Foam Upon Compression. Polymer-Plastics Technology and Engineering, 2012, 51, 304-306. | 1.9 | 19 |
| 125 | The hierarchical structure of waterâ€assisted injection molded high density polyethylene: Small angle Xâ€ray scattering study. Journal of Applied Polymer Science, 2012, 125, 2297-2303. | 2.6 | 19 |
| 126 | Electrospun isotactic polypropylene fibers: Self-similar morphology and microstructure. Polymer, 2013, 54, 3117-3123. | 3.8 | 19 |

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|---|---|---|---|
| 127 | Enhancing oriented crystals in injection-molded HDPE through introduction of pre-shear. Materials & Design, 2015, 78, 12-18. | 5.1 | 19 |
| 128 | The strain-sensing behaviors of carbon black/polypropylene and carbon nanotubes/polypropylene conductive composites prepared by the vacuum-assisted hot compression. Colloid and Polymer Science, 2014, 292, 945-951. | 2.1 | 18 |
| 129 | Oriented structure in stretched isotactic polypropylene melt and its unexpected recrystallization: optical and Xâ€ray studies. Polymer International, 2011, 60, 1434-1441. | 3.1 | 17 |
| 130 | Nonlinear current-voltage characteristics of conductive polyethylene composites with carbon black filled pet microfibrils. Chinese Journal of Polymer Science (English Edition), 2013, 31, 211-217. | 3.8 | 17 |
| 131 | Thermo-compression-aligned functional graphene showing anisotropic response to in-plane stretching and out-of-plane bending. Journal of Materials Science, 2018, 53, 6574-6585. | 3.7 | 17 |
| 132 | Facile fabrication of highly durable superhydrophobic strain sensors for subtle human motion detection. Journal of Materials Science and Technology, 2022, 110, 35-42. | 10.7 | 17 |
| 133 | Liquid sensing properties of carbon black/polypropylene composite with a segregated conductive network. Sensors and Actuators A: Physical, 2014, 217, 13-20. | 4.1 | 16 |
| 134 | Dynamic chemical bonds design strategy for fabricating fast room-temperature healable dielectric elastomer with significantly improved actuation performance. Chemical Engineering Journal, 2022, 439, 135683. | 12.7 | 16 |
| 135 | Temperature and time dependence of electrical resistivity in an anisotropically conductive polymer composite with in situ conductive microfibrils. Journal of Applied Polymer Science, 2012, 124, 1808-1814. | 2.6 | 15 |
| 136 | Enhanced Î²â€crystal formation of isotactic polypropylene under the combined effects of acidâ€corroded glass fiber and preshear. Polymer Composites, 2013, 34, 1250-1260. | 4.6 | 15 |
| 137 | Suppressing the skinâ€“core structure in injection-molded HDPE parts via the combination of pre-shear and UHMWPE. RSC Advances, 2015, 5, 84483-84491. | 3.6 | 15 |
| 138 | Microribbon Structured Polyvinylidene Fluoride with High-Performance Piezoelectricity for Sensing Application. ACS Applied Polymer Materials, 2021, 3, 2411-2419. | 4.4 | 15 |
| 139 | Transcrystallization in nanofiber bundle/isotactic polypropylene composites: effect of matrix molecular weight. Colloid and Polymer Science, 2012, 290, 1157-1164. | 2.1 | 14 |
| 140 | Lightweight, mechanical robust foam with a herringbone-like porous structure for oil/water separation and filtering. Polymer Testing, 2018, 72, 86-93. | 4.8 | 14 |
| 141 | HDPE solution crystallization induced by electrospun PA66 nanofiber. Colloid and Polymer Science, 2011, 289, 843-848. | 2.1 | 13 |
| 142 | Superior actuation performance and healability achieved in a transparent, highly stretchable dielectric elastomer film. Journal of Materials Chemistry C, 2021, 9, 12239-12247. | 5.5 | 13 |
| 143 | Study of shear-induced interfacial crystallization in polymer-based composite through in situ monitoring interfacial shear stress. Journal of Materials Science, 2013, 48, 5354-5360. | 3.7 | 12 |
| 144 | Electrically conductive CB/PA6/HDPE composite with a CB particles coated electrospun PA6 fibrous network. Materials Letters, 2014, 114, 96-99. | 2.6 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Tunable resistivityâ€“temperature characteristics of an electrically conductive multi-walled carbon nanotubes/epoxy composite. Materials Letters, 2015, 159, 276-279. | 2.6 | 12 |
| 146 | Fabrication of a polymer/aligned shish-kebab composite: microstructure and mechanical properties. RSC Advances, 2015, 5, 60392-60400. | 3.6 | 12 |
| 147 | Mechanically Strengthened Polyamide 66 Nanofibers Bundles via Compositing With Polyvinyl Alcohol. Macromolecular Materials and Engineering, 2016, 301, 212-219. | 3.6 | 12 |
| 148 | Sandwiched film with reversibly switchable transparency through cyclic melting-crystallization. Chemical Engineering Journal, 2022, 442, 136205. | 12.7 | 12 |
| 149 | The Resistivity Response of an Anisotropically Conductive Polymer Composite with in-situ Conductive Microfibrils During Cooling. Polymer-Plastics Technology and Engineering, 2011, 50, 1511-1514. | 1.9 | 10 |
| 150 | Negative effect of stretching on the development of Î²â€phase in Î²â€nucleated isotactic polypropylene. Polymer International, 2011, 60, 1016-1023. | 3.1 | 9 |
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