# Zhong-Ming Li

List of Publications by Year
in descending order



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|---|---|---|---|
| 362 papers | 18,644 citations | 10389 72 h-index | 19749 117 g-index |
| 365 all docs | 365 docs citations | 365 times ranked | 11493 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structured Reduced Graphene Oxide/Polymer Composites for Ultraâ€Efficient Electromagnetic Interference Shielding. Advanced Functional Materials, 2015, 25, 559-566. | 14.9 | 1,007 |
| 2 | Conductive polymer composites with segregated structures. Progress in Polymer Science, 2014, 39, 1908-1933. | 24.7 | 617 |
| 3 | Efficient electromagnetic interference shielding of lightweight graphene/polystyrene composite. Journal of Materials Chemistry, 2012, 22, 18772. | 6.7 | 516 |
| 4 | Review on auxetic materials. Journal of Materials Science, 2004, 39, 3269-3279. | 3.7 | 448 |
| 5 | Isothermal Crystallization of Poly(<scp>l</scp>-lactide) Induced by Graphene Nanosheets and Carbon Nanotubes: A Comparative Study. Macromolecules, 2010, 43, 5000-5008. | 4.8 | 308 |
| 6 | High barrier graphene oxide nanosheet/poly(vinyl alcohol) nanocomposite films. Journal of Membrane Science, 2012, 409-410, 156-163. | 8.2 | 273 |
| 7 | Cellulose composite aerogel for highly efficient electromagnetic interference shielding. Journal of Materials Chemistry A, 2015, 3, 4983-4991. | 10.3 | 269 |
| 8 | On transcrystallinity in semi-crystalline polymer composites. Composites Science and Technology, 2005, 65, 999-1021. | 7.8 | 251 |
| 9 | Highly Efficient and Reliable Transparent Electromagnetic Interference Shielding Film. ACS Applied Materials & Interfaces, 2018, 10, 11941-11949. | 8.0 | 245 |
| 10 | Electrically conductive and electromagnetic interference shielding of polyethylene composites with devisable carbon nanotube networks. Journal of Materials Chemistry C, 2015, 3, 9369-9378. | 5.5 | 227 |
| 11 | 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 |
| 12 | Simultaneously improved electromagnetic interference shielding andÂmechanical performance of segregated carbon nanotube/polypropylene composite via solid phase molding. Composites Science and Technology, 2018, 156, 87-94. | 7.8 | 221 |
| 13 | 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 |
| 14 | Unusual Tuning of Mechanical Properties of Isotactic Polypropylene Using Counteraction of Shear Flow and Î²-Nucleating Agent on Î²-Form Nucleation. Macromolecules, 2009, 42, 4343-4348. | 4.8 | 194 |
| 15 | Stretchable and durable conductive fabric for ultrahigh performance electromagnetic interference shielding. Carbon, 2019, 144, 101-108. | 10.3 | 186 |
| 16 | Multilayer WPU conductive composites with controllable electro-magnetic gradient for absorption-dominated electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105692. | 7.6 | 177 |
| 17 | Improved barrier properties of poly(lactic acid) with randomly dispersed graphene oxide nanosheets. Journal of Membrane Science, 2014, 464, 110-118. | 8.2 | 170 |
| 18 | Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. Macromolecules, 2011, 44, 2808-2818. | 4.8 | 160 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | High Strain Tolerant EMI Shielding Using Carbon Nanotube Network Stabilized Rubber Composite. Advanced Materials Technologies, 2017, 2, 1700078. | 5.8 | 153 |
| 20 | Unprecedented Access to Strong and Ductile Poly(lactic acid) by Introducing In Situ Nanofibrillar Poly(butylene succinate) for Green Packaging. Biomacromolecules, 2014, 15, 4054-4064. | 5.4 | 149 |
| 21 | Effects of expandable graphite and ammonium polyphosphate on the flameâ€retardant and mechanical properties of rigid polyurethane foams. Journal of Applied Polymer Science, 2009, 114, 853-863. | 2.6 | 144 |
| 22 | Synergetic enhancement of thermal conductivity by constructing hybrid conductive network in the segregated polymer composites. Composites Science and Technology, 2018, 162, 7-13. | 7.8 | 141 |
| 23 | Low-dimensional carbonaceous nanofiller induced polymer crystallization. Progress in Polymer Science, 2014, 39, 555-593. | 24.7 | 140 |
| 24 | Flame retardancy of different-sized expandable graphite particles for high-density rigid polyurethane foams. Polymer International, 2006, 55, 862-871. | 3.1 | 137 |
| 25 | Tunable electromagnetic interference shielding effectiveness via multilayer assembly of regenerated cellulose as a supporting substrate and carbon nanotubes/polymer as a functional layer. Journal of Materials Chemistry C, 2017, 5, 3130-3138. | 5.5 | 137 |
| 26 | A high heat-resistance bioplastic foam with efficient electromagnetic interference shielding. Chemical Engineering Journal, 2017, 323, 29-36. | 12.7 | 136 |
| 27 | Robustly Superhydrophobic Conductive Textile for Efficient Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2019, 11, 1680-1688. | 8.0 | 136 |
| 28 | CNTs/ UHMWPE composites with a two-dimensional conductive network. Materials Letters, 2008, 62, 3530-3532. | 2.6 | 133 |
| 29 | Formation of Interlinked Shish-Kebabs in Injection-Molded Polyethylene under the Coexistence of Lightly Cross-Linked Chain Network and Oscillation Shear Flow. Macromolecules, 2012, 45, 6600-6610. | 4.8 | 130 |
| 30 | Competitive Growth of Î±- and Î²-Crystals in Î²-Nucleated Isotactic Polypropylene under Shear Flow. Macromolecules, 2010, 43, 6760-6771. | 4.8 | 128 |
| 31 | Formation of Shish-Kebabs in Injection-Molded Poly(<scp>l</scp>-lactic acid) by Application of an Intense Flow Field. ACS Applied Materials & Interfaces, 2012, 4, 6774-6784. | 8.0 | 128 |
| 32 | Dependence of flame-retardant properties on density of expandable graphite filled rigid polyurethane foam. Journal of Applied Polymer Science, 2007, 104, 3347-3355. | 2.6 | 124 |
| 33 | Super-tough conducting carbon nanotube/ultrahigh-molecular-weight polyethylene composites with segregated and double-percolated structure. Journal of Materials Chemistry, 2012, 22, 23568. | 6.7 | 123 |
| 34 | Electromagnetic interference shielding of segregated polymer composite with an ultralow loading of<i>in situ</i>thermally reduced graphene oxide. Nanotechnology, 2014, 25, 145705. | 2.6 | 123 |
| 35 | Formation of a Segregated Electrically Conductive Network Structure in a Low-Melt-Viscosity Polymer for Highly Efficient Electromagnetic Interference Shielding. ACS Sustainable Chemistry and Engineering, 2016, 4, 4137-4145. | 6.7 | 123 |
| 36 | Highly Sensitive and Stretchable Polyurethane Fiber Strain Sensors with Embedded Silver Nanowires. ACS Applied Materials & Interfaces, 2019, 11, 23649-23658. | 8.0 | 122 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | Transcrystalline Morphology of an in situ Microfibrillar Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (terephthalate)/Poly( Process. Macromolecular Rapid Communications, 2004, 25, 553-558. | 3.9 | 121 |
| 39 | Highly Stretchable and Sensitive Strain Sensor with Porous Segregated Conductive Network. ACS Applied Materials & Interfaces, 2019, 11, 37094-37102. | 8.0 | 116 |
| 40 | Highly thermal conductive, anisotropically heat-transferred, mechanically flexible composite film by assembly of boron nitride nanosheets for thermal management. Composites Part B: Engineering, 2020, 180, 107569. | 12.0 | 114 |
| 41 | A strong and tough polymerâ€“carbon nanotube film for flexible and efficient electromagnetic interference shielding. Journal of Materials Chemistry C, 2017, 5, 8944-8951. | 5.5 | 112 |
| 42 | Composites of Ultrahighâ€Molecularâ€Weight Polyethylene with Graphene Sheets and/or MWCNTs with Segregated Network Structure: Preparation and Properties. Macromolecular Materials and Engineering, 2012, 297, 437-443. | 3.6 | 110 |
| 43 | Highly thermally conductive liquid metal-based composites with superior thermostability for thermal management. Journal of Materials Chemistry C, 2021, 9, 2904-2911. | 5.5 | 110 |
| 44 | Suppression of Skinâ˜’Core Structure in Injection-Molded Polymer Parts by in Situ Incorporation of a Microfibrillar Network. Macromolecules, 2006, 39, 6771-6775. | 4.8 | 109 |
| 45 | Ultralight Cellulose Porous Composites with Manipulated Porous Structure and Carbon Nanotube Distribution for Promising Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2018, 10, 40156-40167. | 8.0 | 108 |
| 46 | Super-Robust Polylactide Barrier Films by Building Densely Oriented Lamellae Incorporated with Ductile in Situ Nanofibrils of Poly(butylene adipate-<i>co</i>-terephthalate). ACS Applied Materials & Interfaces, 2016, 8, 8096-8109. | 8.0 | 102 |
| 47 | Structuring Hierarchically Porous Architecture in Biomass-Derived Carbon Aerogels for Simultaneously Achieving High Electromagnetic Interference Shielding Effectiveness and High Absorption Coefficient. ACS Applied Materials & Interfaces, 2020, 12, 18840-18849. | 8.0 | 102 |
| 48 | Highly Conductive and Machineâ€Washable Textiles for Efficient Electromagnetic Interference Shielding. Advanced Materials Technologies, 2019, 4, 1800503. | 5.8 | 101 |
| 49 | Negative Temperature Coefficient of Resistivity in Lightweight Conductive Carbon Nanotube/Polymer Composites. Macromolecular Materials and Engineering, 2009, 294, 91-95. | 3.6 | 100 |
| 50 | Self-healing and flexible carbon nanotube/polyurethane composite for efficient electromagnetic interference shielding. Composites Part B: Engineering, 2020, 193, 108015. | 12.0 | 100 |
| 51 | Shear Flow and Carbon Nanotubes Synergistically Induced Nonisothermal Crystallization of Poly(lactic acid) and Its Application in Injection Molding. Biomacromolecules, 2012, 13, 3858-3867. | 5.4 | 95 |
| 52 | Low-temperature carbonized carbon nanotube/cellulose aerogel for efficient microwave absorption. Composites Part B: Engineering, 2021, 220, 108985. | 12.0 | 95 |
| 53 | Highly Enhanced Crystallization Kinetics of Poly(<scp>l</scp>-lactic acid) by Poly(ethylene glycol) Grafted Graphene Oxide Simultaneously as Heterogeneous Nucleation Agent and Chain Mobility Promoter. Macromolecules, 2015, 48, 4891-4900. | 4.8 | 93 |
| 54 | Constructing highly oriented segregated structure towards high-strength carbon nanotube/ultrahigh-molecular-weight polyethylene composites for electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2018, 110, 237-245. | 7.6 | 93 |

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|---|---|---|---|
| 55 | Strong Shear Flow-Driven Simultaneous Formation of Classic Shish-Kebab, Hybrid Shish-Kebab, and Transcrystallinity in Poly(lactic acid)/Natural Fiber Biocomposites. ACS Sustainable Chemistry and Engineering, 2013, 1, 1619-1629. | 6.7 | 89 |
| 56 | 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 |
| 57 | Robust carbon nanotube foam for efficient electromagnetic interference shielding and microwave absorption. Journal of Colloid and Interface Science, 2018, 530, 113-119. | 9.4 | 86 |
| 58 | Water-based conductive ink for highly efficient electromagnetic interference shielding coating. Chemical Engineering Journal, 2020, 384, 123368. | 12.7 | 86 |
| 59 | Stretchable Liquid Metal-Based Conductive Textile for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2020, 12, 53230-53238. | 8.0 | 85 |
| 60 | Enhanced piezoelectricity from highly polarizable oriented amorphous fractions in biaxially oriented poly(vinylidene fluoride) with pure Î² crystals. Nature Communications, 2021, 12, 675. | 12.8 | 85 |
| 61 | Highly conductive and stretchable carbon nanotube/thermoplastic polyurethane composite for wearable heater. Composites Science and Technology, 2019, 181, 107695. | 7.8 | 83 |
| 62 | Expandable Graphite For Halogen-Free Flame-Retardant of High-Density Rigid Polyurethane Foams. Polymer-Plastics Technology and Engineering, 2005, 44, 1323-1337. | 1.9 | 82 |
| 63 | 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 |
| 64 | Extensional Stress-Induced Orientation and Crystallization can Regulate the Balance of Toughness and Stiffness of Polylactide Films: Interplay of Oriented Amorphous Chains and Crystallites. Macromolecules, 2019, 52, 5278-5288. | 4.8 | 79 |
| 65 | Nacre-like composite films with high thermal conductivity, flexibility, and solvent stability for thermal management applications. Journal of Materials Chemistry C, 2019, 7, 9018-9024. | 5.5 | 79 |
| 66 | Ultra-low gas permeability and efficient reinforcement of cellulose nanocomposite films by well-aligned graphene oxide nanosheets. Journal of Materials Chemistry A, 2014, 2, 15853-15863. | 10.3 | 78 |
| 67 | Synergistic Effect of Graphite and Carbon Nanotubes on Improved Electromagnetic Interference Shielding Performance in Segregated Composites. Industrial & Engineering Chemistry Research, 2018, 57, 11929-11938. | 3.7 | 78 |
| 68 | 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 |
| 69 | Interfacial Shish-Kebabs Lengthened by Coupling Effect of In Situ Flexible Nanofibrils and Intense Shear Flow: Achieving Hierarchy To Conquer the Conflicts between Strength and Toughness of Polylactide. ACS Applied Materials & Interfaces, 2017, 9, 10148-10159. | 8.0 | 77 |
| 70 | Simultaneous Reinforcement and Toughening of Carbon Nanotube/Cellulose Conductive Nanocomposite Films by Interfacial Hydrogen Bonding. ACS Sustainable Chemistry and Engineering, 2015, 3, 317-324. | 6.7 | 76 |
| 71 | Structuring dense three-dimensional sheet-like skeleton networks in biomass-derived carbon aerogels for efficient electromagnetic interference shielding. Carbon, 2019, 152, 316-324. | 10.3 | 76 |
| 72 | Double-segregated carbon nanotubeâ€“polymer conductive composites as candidates for liquid sensing materials. Journal of Materials Chemistry A, 2013, 1, 4177. | 10.3 | 75 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 73 | Enhanced Heat Deflection Resistance via Shear Flow-Induced Stereocomplex Crystallization of Polylactide Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 1692-1703. | 6.7 | 74 |
| 74 | Largely enhanced mechanical property of segregated carbon nanotube/poly(vinylidene fluoride) composites with high electromagnetic interference shielding performance. Composites Science and Technology, 2018, 167, 260-267. | 7.8 | 74 |
| 75 | Tensile properties of poly(ethylene terephthalate) and polyethylene in-situ microfiber reinforced composite formed via slit die extrusion and hot-stretching. Materials Letters, 2002, 56, 756-762. | 2.6 | 73 |
| 76 | Dominant Î²-Form of Poly(<scp>l</scp>-lactic acid) Obtained Directly from Melt under Shear and Pressure Fields. Macromolecules, 2016, 49, 3826-3837. | 4.8 | 73 |
| 77 | Morphology and nonisothermal crystallization ofin situ microfibrillar poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 T of Polymer Science, Part B: Polymer Physics, 2004, 42, 374-385. | 2.1 | 70 |
| 78 | Mechanical properties and biocompatibility of melt processed, self-reinforced ultrahigh molecular weight polyethylene. Biomaterials, 2014, 35, 6687-6697. | 11.4 | 69 |
| 79 | Crystalline morphology of isotactic polypropylene (iPP) in injection molded poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 | 3.8 | 68 |
| 80 | Poly(<scp>L</scp>â€lactide) crystallization induced by multiwall carbon nanotubes at very low loading. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2341-2352. | 2.1 | 68 |
| 81 | Synergistic effect of ammonium polyphosphate and expandable graphite on flameâ€retardant properties of acrylonitrileâ€butadieneâ€styrene. Journal of Applied Polymer Science, 2012, 126, 1337-1343. | 2.6 | 67 |
| 82 | From Nanofibrillar to Nanolaminar Poly(butylene succinate): Paving the Way to Robust Barrier and Mechanical Properties for Full-Biodegradable Poly(lactic acid) Films. ACS Applied Materials & Interfaces, 2015, 7, 8023-8032. | 8.0 | 67 |
| 83 | Tunable positive temperature coefficient of resistivity in an electrically conducting polymer/graphene composite. Applied Physics Letters, 2010, 96, . | 3.3 | 66 |
| 84 | Wearable Polyethylene/Polyamide Composite Fabric for Passive Human Body Cooling. ACS Applied Materials & Interfaces, 2018, 10, 41637-41644. | 8.0 | 65 |
| 85 | In-situ microfibrillar PET/iPP blend via slit die extrusion, hot stretching, and quenching: Influence of hot stretch ratio on morphology, crystallization, and crystal structure of iPP at a fixed PET concentration. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 4095-4106. | 2.1 | 64 |
| 86 | 3D-printing of segregated carbon nanotube/polylactic acid composite with enhanced electromagnetic interference shielding and mechanical performance. Materials and Design, 2021, 197, 109222. | 7.0 | 63 |
| 87 | A Unique Double Percolated Polymer Composite for Highly Efficient Electromagnetic Interference Shielding. Macromolecular Materials and Engineering, 2016, 301, 1232-1241. | 3.6 | 62 |
| 88 | Enhanced thermal conductivity of polyethylene/boron nitride multilayer sheets through annealing. Composites Part A: Applied Science and Manufacturing, 2018, 107, 135-143. | 7.6 | 62 |
| 89 | Novel passive cooling composite textile for both outdoor and indoor personal thermal management. Composites Part A: Applied Science and Manufacturing, 2020, 130, 105738. | 7.6 | 62 |
| 90 | Injection molding of segregated carbon nanotube/polypropylene composite with enhanced electromagnetic interference shielding and mechanical performance. Composites Science and Technology, 2020, 197, 108253. | 7.8 | 62 |

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| 91 | 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 |
| 92 | Improved properties of highly oriented graphene/polymer nanocomposites. Journal of Applied Polymer Science, 2011, 121, 3167-3174. | 2.6 | 61 |
| 93 | Strong and tough micro/nanostructured poly(lactic acid) by mimicking the multifunctional hierarchy of shell. Materials Horizons, 2014, 1, 546-552. | 12.2 | 61 |
| 94 | Flameâ€retardant and mechanical properties of highâ€density rigid polyurethane foams filled with decabrominated dipheny ethane and expandable graphite. Journal of Applied Polymer Science, 2009, 111, 2372-2380. | 2.6 | 60 |
| 95 | Easy alignment and effective nucleation activity of ramie fibers in injectionâ€molded poly(lactic acid) biocomposites. Biopolymers, 2012, 97, 825-839. | 2.4 | 60 |
| 96 | High-Pressure Compression-Molded Porous Resorbable Polymer/Hydroxyapatite Composite Scaffold for Cranial Bone Regeneration. ACS Biomaterials Science and Engineering, 2016, 2, 1471-1482. | 5.2 | 60 |
| 97 | Flame retardancy of hollow glass microsphere/rigid polyurethane foams in the presence of expandable graphite. Journal of Applied Polymer Science, 2008, 109, 1935-1943. | 2.6 | 59 |
| 98 | Achieving excellent thermally conductive and electromagnetic shielding performance by nondestructive functionalization and oriented arrangement of carbon nanotubes in composite films. Composites Science and Technology, 2020, 194, 108190. | 7.8 | 59 |
| 99 | Enhanced Thermal Conductivity of Segregated Poly(vinylidene fluoride) Composites via Forming Hybrid Conductive Network of Boron Nitride and Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2018, 57, 10391-10397. | 3.7 | 58 |
| 100 | Structural Basis for Unique Hierarchical Cylindrites Induced by Ultrahigh Shear Gradient in Single Natural Fiber Reinforced Poly(lactic acid) Green Composites. Biomacromolecules, 2014, 15, 1676-1686. | 5.4 | 57 |
| 101 | Role of Stably Entangled Chain Network Density in Shish-Kebab Formation in Polyethylene under an Intense Flow Field. Macromolecules, 2015, 48, 6652-6661. | 4.8 | 57 |
| 102 | A highly efficient and heat-resistant electromagnetic interference shielding carbon nanotube/poly(phenylene sulfide) composite <i>via</i> sinter molding. Journal of Materials Chemistry C, 2018, 6, 10760-10766. | 5.5 | 57 |
| 103 | Integrated strength and toughness in graphene/calcium alginate films for highly efficient electromagnetic interference shielding. Journal of Materials Chemistry C, 2018, 6, 9166-9174. | 5.5 | 54 |
| 104 | Injection molding-induced morphology of thermoplastic polymer blends. Polymer Engineering and Science, 2005, 45, 1655-1665. | 3.1 | 53 |
| 105 | Injection Molded Segregated Carbon Nanotube/Polypropylene Composite for Efficient Electromagnetic Interference Shielding. Industrial & Engineering Chemistry Research, 2018, 57, 12378-12385. | 3.7 | 53 |
| 106 | Facile, green and affordable strategy for structuring natural graphite/polymer composite with efficient electromagnetic interference shielding. RSC Advances, 2015, 5, 22587-22592. | 3.6 | 52 |
| 107 | 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 |
| 108 | Engineering Porous Poly(lactic acid) Scaffolds with High Mechanical Performance via a Solid State Extrusion/Porogen Leaching Approach. Polymers, 2016, 8, 213. | 4.5 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Ultrahigh gas barrier poly (vinyl alcohol) nanocomposite film filled with congregated and oriented Fe 3 O 4 @GO sheets induced by magnetic-field. Composites Part A: Applied Science and Manufacturing, 2017, 97, 1-9. | 7.6 | 48 |
| 110 | Highly Anisotropic, Thermally Conductive, and Mechanically Strong Polymer Composites with Nacre-like Structure for Thermal Management Applications. ACS Applied Nano Materials, 2018, 1, 3312-3320. | 5.0 | 48 |
| 111 | Window of Pressure and Flow To Produce Î²-Crystals in Isotactic Polypropylene Mixed with Î²-Nucleating Agent. Macromolecules, 2017, 50, 4807-4816. | 4.8 | 47 |
| 112 | Expandable graphiteâ€methyl methacrylateâ€acrylic acid copolymer composite particles as a flame retardant of rigid polyurethane foam. Journal of Applied Polymer Science, 2011, 122, 932-941. | 2.6 | 46 |
| 113 | Understanding Nonlinear Dielectric Properties in a Biaxially Oriented Poly(vinylidene fluoride) Film at Both Low and High Electric Fields. ACS Applied Materials & Interfaces, 2016, 8, 455-465. | 8.0 | 46 |
| 114 | Hydrophobic Graphene Oxide as a Promising Barrier of Water Vapor for Regenerated Cellulose Nanocomposite Films. ACS Omega, 2019, 4, 509-517. | 3.5 | 46 |
| 115 | Morphology-tensile behavior relationship in injection molded poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (terep Journal of Materials Science, 2004, 39, 413-431. | 3.7 | 45 |
| 116 | Morphology and Tensile Strength Prediction of in situ Microfibrillar Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (terepht Macromolecular Materials and Engineering, 2004, 289, 349-354. | 3.6 | 44 |
| 117 | Isothermal and nonisothermal crystallization of isotactic polypropylene/graphene oxide nanosheet nanocomposites. Journal of Polymer Research, 2012, 19, 1. | 2.4 | 44 |
| 118 | A wearable multifunctional fabric with excellent electromagnetic interference shielding and passive radiation heating performance. Composites Part B: Engineering, 2021, 225, 109299. | 12.0 | 44 |
| 119 | Aramid nanofiber assisted preparation of self-standing liquid metal-based films for ultrahigh electromagnetic interference shielding. Chemical Engineering Journal, 2021, 426, 131288. | 12.7 | 44 |
| 120 | Characterization and performance of dodecyl amine functionalized graphene oxide and dodecyl amine functionalized graphene/highâ€density polyethylene nanocomposites: A comparative study. Journal of Applied Polymer Science, 2014, 131, . | 2.6 | 43 |
| 121 | Shear-Induced Precursor Relaxation-Dependent Growth Dynamics and Lamellar Orientation of Î²-Crystals in Î²-Nucleated Isotactic Polypropylene. Journal of Physical Chemistry B, 2015, 119, 5716-5727. | 2.6 | 43 |
| 122 | In Situ Nanofibrillar Networks Composed of Densely Oriented Polylactide Crystals as Efficient Reinforcement and Promising Barrier Wall for Fully Biodegradable Poly(butylene succinate) Composite Films. ACS Sustainable Chemistry and Engineering, 2016, 4, 2887-2897. | 6.7 | 43 |
| 123 | Morphology and Rheological Behaviors of Polycarbonate/High Density Polyethylene in situ Microfibrillar Blends. Macromolecular Materials and Engineering, 2004, 289, 1087-1095. | 3.6 | 42 |
| 124 | Highly thermally conductive and mechanically robust composite of linear ultrahigh molecular weight polyethylene and boron nitride via constructing nacre-like structure. Composites Science and Technology, 2019, 184, 107858. | 7.8 | 42 |
| 125 | Enhanced Dielectric and Ferroelectric Properties of Poly(vinylidene fluoride) through Annealing Oriented Crystallites under High Pressure. Macromolecules, 2022, 55, 2014-2027. | 4.8 | 42 |
| 126 | Non-isothermal crystallization of poly(L-lactide) (PLLA) under quiescent and steady shear conditions. Chinese Journal of Polymer Science (English Edition), 2010, 28, 357-366. | 3.8 | 41 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Healable polyurethane/carbon nanotube composite with segregated structure for efficient electromagnetic interference shielding. Composites Science and Technology, 2020, 200, 108446. | 7.8 | 41 |
| 128 | Crystallization of oriented isotactic polypropylene (iPP) in the presence of in situ poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 | 3.8 | 40 |
| 129 | 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 |
| 130 | Topographic Cues Guiding Cell Polarization via Distinct Cellular Mechanosensing Pathways. Small, 2022, 18, e2104328. | 10.0 | 40 |
| 131 | CNT-assisted design of stable liquid metal droplets for flexible multifunctional composites. Composites Part B: Engineering, 2022, 239, 109961. | 12.0 | 40 |
| 132 | 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 |
| 133 | Highly crystallized poly (lactic acid) under high pressure. AIP Advances, 2012, 2, . | 1.3 | 38 |
| 134 | Simultaneous improvement of strength and toughness in fiber reinforced isotactic polypropylene composites by shear flow and a Î²-nucleating agent. RSC Advances, 2014, 4, 14766-14776. | 3.6 | 38 |
| 135 | Can Relaxor Ferroelectric Behavior Be Realized for Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (fluoride-<i>co Units in PVDF Crystals?. Macromolecules, 2018, 51, 5460-5472. | 4.8 | 38 |
| 136 | Flexible Poly(vinylidene fluoride)-MXene/Silver Nanowire Electromagnetic Shielding Films with Joule Heating Performance. Industrial & Engineering Chemistry Research, 2021, 60, 9824-9832. | 3.7 | 38 |
| 137 | Core-shell structure design of pulverized expandable graphite particles and their application in flame-retardant rigid polyurethane foams. Polymer International, 2014, 63, 72-83. | 3.1 | 37 |
| 138 | Flow and Pressure Jointly Induced Ultrahigh Melting Temperature Spherulites with Oriented Thick Lamellae in Isotactic Polypropylene. Macromolecules, 2015, 48, 5834-5844. | 4.8 | 37 |
| 139 | Melt processing and structural manipulation of highly linear disentangled ultrahigh molecular weight polyethylene. Chemical Engineering Journal, 2017, 315, 132-141. | 12.7 | 37 |
| 140 | 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 |
| 141 | Mucosaâ€Like Conformal Hydrogel Coating for Aqueous Lubrication. Advanced Materials, 2022, 34, e2108848. | 21.0 | 37 |
| 142 | Morphology and Properties of Poly(L-Lactide) (PLLA) Filled with Hollow Glass Beads. Macromolecular Materials and Engineering, 2007, 292, 646-654. | 3.6 | 36 |
| 143 | Polyamide-6/Poly(lactic acid) Blends Compatibilized by the Maleic Anhydride Grafted Polyethylene-Octene Elastomer. Polymer-Plastics Technology and Engineering, 2010, 49, 1241-1246. | 1.9 | 36 |
| 144 | Preparation and properties of carbon black/polymer composites with segregated and double-percolated network structures. Journal of Materials Science, 2013, 48, 4892-4898. | 3.7 | 36 |

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| --- | --- | --- | --- |
| 145 | Phase assembly-induced transition of three dimensional nanofibril- to sheet-networks in porous cellulose with tunable properties. Cellulose, 2014, 21, 383-394. | 4.9 | 36 |
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