# Shicheng Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1175144/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 55 papers | 949 citations | 516710 16 h-index | 501196 28 g-index |
| 55 all docs | 55 docs citations | 55 times ranked | 794 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A one-step deposition method to prepare separators with carbon soot loading for lithium-sulfur battery. Ionics, 2022, 28, 1693-1700. | 2.4 | 2 |
| 2 | Mechanism of boron carbide particles improving the wear resistance of UHMWPE: Structure-property relationship. Polymer, 2022, 245, 124733. | 3.8 | 16 |
| 3 | Effect of an active Î²-nucleating agent on the crystallization behavior of polypropylene random copolymer. Journal of Polymer Research, 2022, 29, 1. | 2.4 | 6 |
| 4 | Effects of zinc isophthalate on the crystallization and crystal transformation behavior of polybutene alloy. Journal of Polymer Research, 2022, 29, 1. | 2.4 | 0 |
| 5 | Chain disentanglement in POSS/UHMWPE composites prepared via in-situ polymerization. Journal of Polymer Research, 2022, 29, 1. | 2.4 | 2 |
| 6 | Viscoelasticity, Tensile Properties, and Microstructure Development in Cyclic Olefin Copolymer/Polyolefin Elastomer Blends. Macromolecular Chemistry and Physics, 2022, 223, . | 2.2 | 5 |
| 7 | Failure mechanism of zinc adipate as a Î²-nucleating agent for polypropylene in the presence of calcium stearate. Polymer, 2021, 215, 123374. | 3.8 | 9 |
| 8 | Calcium Salt of L-Isoleucine-Phthalate: An Î±-Nucleating Agent That Enhances the Crystallization Behavior and Mechanical Properties of Isotactic Polypropylene. Journal of Macromolecular Science - Physics, 2021, 60, 531-543. | 1.0 | 2 |
| 9 | Effect of the lanthanum and cerium phenylphosphonates on the crystallization and mechanical properties of isotactic polypropylene. Journal of Polymer Research, 2021, 28, 1. | 2.4 | 5 |
| 10 | An effective nucleating agent for isotactic polypropylene (iPP): Zinc bis- (nadic anhydride) double-decker silsesquioxanes. Polymer, 2021, 220, 123574. | 3.8 | 15 |
| 11 | A photosensitive metalâ€“organic framework having a flower-like structure for effective visible light-driven photodegradation of rhodamine B. RSC Advances, 2021, 11, 18565-18575. | 3.6 | 31 |
| 12 | Hygroscopic Hydrogels for Removal of Trace Water from Liquid Fuels. Industrial & Engineering Chemistry Research, 2021, 60, 17065-17071. | 3.7 | 3 |
| 13 | Structural Relationships between Zinc Hexahydrophthalate and the Î² Phase of Isotactic Polypropylene. Industrial & Engineering Chemistry Research, 2020, 59, 18529-18538. | 3.7 | 9 |
| 14 | Crystallization behaviors of poly(ethylene terephthalate) (PET) with monosilane isobutyl-polyhedral oligomeric silsesquioxanes (POSS). Journal of Materials Science, 2020, 55, 14642-14655. | 3.7 | 39 |
| 15 | The mechanical properties, crystallization and rheological behavior of isotactic polypropylene with nucleating agent supported on polyhedral oligomeric silsesquioxanes (POSS). Journal of Polymer Research, 2020, 27, 1. | 2.4 | 7 |
| 16 | Zinc pimelate as an effective Î²â€•nucleating agent for isotactic polypropylene at elevated pressures and under rapid cooling rates. Polymer Crystallization, 2020, 3, e10132. | 0.8 | 7 |
| 17 | A cell-free therapy for articular cartilage repair based on synergistic delivery of SDF-1 & KGN with HA injectable scaffold. Chemical Engineering Journal, 2020, 393, 124649. | 12.7 | 31 |
| 18 | Mechanism of size effects of a filler on the wear behavior of ultrahigh molecular weight polyethylene. Chinese Journal of Chemical Engineering, 2020, 28, 1950-1963. | 3.5 | 9 |

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|---|---|---|---|
| 19 | Effect of the Metal Phenylphosphonates on the Nonisothermal Crystallization and Performance of Isotactic Polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 161-173. | 2.1 | 8 |
| 20 | Wear Resistance Mechanism of Ultrahigh-Molecular-Weight Polyethylene Determined from Its Structureâ€“Property Relationships. Industrial & Engineering Chemistry Research, 2019, 58, 19519-19530. | 3.7 | 21 |
| 21 | High-throughput droplet microfluidic synthesis of hierarchical metal-organic framework nanosheet microcapsules. Nano Research, 2019, 12, 2736-2742. | 10.4 | 23 |
| 22 | Increased nucleation efficiency of an in situâ€“formed Î²-nucleating agent for impact polypropylene copolymer. Journal of Polymer Research, 2019, 26, 1. | 2.4 | 8 |
| 23 | 13X zeolite as Difunctional nucleating agent regulating the crystal form and improving the Foamability of blocked copolymerized polypropylene in supercritical CO2 foaming process. Journal of Polymer Research, 2019, 26, 1. | 2.4 | 7 |
| 24 | Ultrathin 2D metalâ€“organic framework nanosheets prepared via sonication exfoliation of membranes from interfacial growth and exhibition of enhanced catalytic activity by their gold nanocomposites. RSC Advances, 2019, 9, 9386-9391. | 3.6 | 31 |
| 25 | Nascent particle sizes and degrees of entanglement are responsible for the significant differences in impact strength of ultrahigh molecular weight polyethylene. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 632-641. | 2.1 | 26 |
| 26 | Microfluidic preparation of PLGA microspheres as cell carriers with sustainable Rapa release. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 737-755. | 3.5 | 16 |
| 27 | In situ formation of zinc phthalate as a highly dispersed Î²-nucleating agent for mechanically strengthened isotactic polypropylene. Chemical Engineering Journal, 2019, 358, 1243-1252. | 12.7 | 35 |
| 28 | Controllable preparation of SB-3CT loaded PLGA microcapsules for traumatic-brain-injury pharmaco-therapy. Chemical Engineering Journal, 2018, 339, 346-358. | 12.7 | 10 |
| 29 | Rheological, crystallization and foaming behaviors of high melt strength polypropylene in the presence of polyvinyl acetate. Journal of Polymer Research, 2018, 25, 1. | 2.4 | 13 |
| 30 | Relationship between Peroxide Initiators and Properties of Styrene Grafted Polypropylene via Reactive Extrusion. Journal of Macromolecular Science - Physics, 2018, 57, 377-394. | 1.0 | 6 |
| 31 | Unique crystallization behavior of isotactic polypropylene in the presence of <scp>l</scp>â€isoleucine and its inhibition and promotion mechanism of nucleation. Journal of Applied Polymer Science, 2018, 135, 45956. | 2.6 | 2 |
| 32 | A novel Î²-nucleating agent for isotactic polypropylene. Journal of Thermal Analysis and Calorimetry, 2018, 134, 2029-2040. | 3.6 | 9 |
| 33 | The nucleation effect of self-dispersed Î²-nucleating agent in ethylene-propylene block copolymerized polypropylene. Colloid and Polymer Science, 2018, 296, 1627-1633. | 2.1 | 5 |
| 34 | Effect of benzoic acid surface modified alumina nanoparticles on the mechanical properties and crystallization behavior of isotactic polypropylene nanocomposites. RSC Advances, 2018, 8, 20790-20800. | 3.6 | 12 |
| 35 | In situ generation of a self-dispersed Î²-nucleating agent with increased nucleation efficiency in isotactic polypropylene. Polymer, 2018, 151, 84-91. | 3.8 | 24 |
| 36 | The effects of octadecylamine functionalized multi-wall carbon nanotubes on the conductive and mechanical properties of ultra-high molecular weight polyethylene. Journal of Polymer Research, 2018, 25, 1. | 2.4 | 11 |

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|---|---|---|---|
| 37 | A novel self-dispersed Î² nucleating agent for isotactic polypropylene and its unique nucleation behavior and mechanism. Polymer, 2017, 132, 69-78. | 3.8 | 20 |
| 38 | Nucleation effects of zinc adipate as Î²-Nucleating agent in ethylene-propylene block copolymerized polypropylene. Journal of Polymer Research, 2017, 24, 1. | 2.4 | 11 |
| 39 | A highly active and selective Î²â€nucleating agent for isotactic polypropylene and crystallization behavior of Î²â€nucleated isotactic polypropylene under rapid cooling. Journal of Applied Polymer Science, 2016, 133, . | 2.6 | 20 |
| 40 | Polydimethylsiloxane assisted supercritical CO2 foaming behavior of high melt strength polypropylene grafted with styrene. Frontiers of Chemical Science and Engineering, 2016, 10, 396-404. | 4.4 | 12 |
| 41 | Shear-induced Î² -form polypropylene in long chain branching isotactic polypropylene. Polymer Engineering and Science, 2016, 56, 240-247. | 3.1 | 15 |
| 42 | Relationship between molecular structure, crystallization behavior, and mechanical properties of long chain branching polypropylene. Journal of Materials Science, 2016, 51, 5598-5608. | 3.7 | 29 |
| 43 | Conformation order of poly(l-lactic acid) chains during the melt crystallization process: infrared and two-dimensional infrared correlation spectroscopy study. Journal of Materials Science, 2016, 51, 4880-4887. | 3.7 | 8 |
| 44 | Preparation and foaming mechanism of foamable polypropylene based on self-assembled nanofibrils from sorbitol nucleating agents. Journal of Materials Science, 2016, 51, 788-796. | 3.7 | 13 |
| 45 | Control of thermal degradation of poly(lactic acid) using functional polysilsesquioxane microspheres as chain extenders. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 10 |
| 46 | The Crystallization Behavior of Isotactic Polypropylene Induced by a Novel Antinucleating Agent and Its Inhibition Mechanism of Nucleation. Industrial & Engineering Chemistry Research, 2015, 54, 7650-7657. | 3.7 | 15 |
| 47 | Preparation and foamability of high melt strength polypropylene based on grafting vinyl polydimethylsiloxane and styrene. Polymer Engineering and Science, 2015, 55, 251-259. | 3.1 | 30 |
| 48 | A Novel Strategy for Achieving High Melt Strength Polypropylene and an Investigation of Its Foamability. Journal of Macromolecular Science - Physics, 2014, 53, 1695-1714. | 1.0 | 9 |
| 49 | A novel highly efficient Î²â€nucleating agent for isotactic polypropylene. Journal of Applied Polymer Science, 2012, 123, 108-117. | 2.6 | 19 |
| 50 | Combined effect of organic phosphate sodium and nanoclay on the mechanical properties and crystallization behavior of isotactic polypropylene. Journal of Applied Polymer Science, 2012, 123, 617-626. | 2.6 | 11 |
| 51 | The effect of bicyclo[2.2.1]heptâ€5â€eneâ€2,3â€dicarboxylate on the mechanical properties and crystallization behaviors of isotactic polypropylene. Journal of Applied Polymer Science, 2010, 116, 792-800. | 2.6 | 1 |
| 52 | Nucleation characteristics of the Î±/Î² compounded nucleating agents and their influences on crystallization behavior and mechanical properties of isotactic polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 653-665. | 2.1 | 56 |
| 53 | Influence of lanthanum stearate on the crystallization behavior of isotactic polypropylene. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 628-634. | 1.5 | 7 |
| 54 | Crystallization kinetics of isotactic polypropylene nucleated with organic dicarboxylic acid salts. Journal of Applied Polymer Science, 2009, 112, 1471-1480. | 2.6 | 15 |

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|---|---|---|---|
| 55 | A highly active novel Î²-nucleating agent for isotactic polypropylene. Polymer, 2008, 49, 2745-2754. | 3.8 | 183 |