

# Shicheng Zhao

## List of Publications by Year in descending order

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55  
papers

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citations

516710

16  
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501196

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55  
docs citations

55  
times ranked

794  
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly active novel $\hat{I}^2$ -nucleating agent for isotactic polypropylene. <i>Polymer</i> , 2008, 49, 2745-2754.	3.8	183
2	Nucleation characteristics of the $\hat{I}^{\pm}/\hat{I}^2$ compounded nucleating agents and their influences on crystallization behavior and mechanical properties of isotactic polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 653-665.	2.1	56
3	Crystallization behaviors of poly(ethylene terephthalate) (PET) with monosilane isobutyl-polyhedral oligomeric silsesquioxanes (POSS). <i>Journal of Materials Science</i> , 2020, 55, 14642-14655.	3.7	39
4	In situ formation of zinc phthalate as a highly dispersed $\hat{I}^2$ -nucleating agent for mechanically strengthened isotactic polypropylene. <i>Chemical Engineering Journal</i> , 2019, 358, 1243-1252.	12.7	35
5	Ultrathin 2D metal-organic framework nanosheets prepared via sonication exfoliation of membranes from interfacial growth and exhibition of enhanced catalytic activity by their gold nanocomposites. <i>RSC Advances</i> , 2019, 9, 9386-9391.	3.6	31
6	A cell-free therapy for articular cartilage repair based on synergistic delivery of SDF-1 & KGN with HA injectable scaffold. <i>Chemical Engineering Journal</i> , 2020, 393, 124649.	12.7	31
7	A photosensitive metal-organic framework having a flower-like structure for effective visible light-driven photodegradation of rhodamine B. <i>RSC Advances</i> , 2021, 11, 18565-18575.	3.6	31
8	Preparation and foamability of high melt strength polypropylene based on grafting vinyl polydimethylsiloxane and styrene. <i>Polymer Engineering and Science</i> , 2015, 55, 251-259.	3.1	30
9	Relationship between molecular structure, crystallization behavior, and mechanical properties of long chain branching polypropylene. <i>Journal of Materials Science</i> , 2016, 51, 5598-5608.	3.7	29
10	Nascent particle sizes and degrees of entanglement are responsible for the significant differences in impact strength of ultrahigh molecular weight polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 632-641.	2.1	26
11	In situ generation of a self-dispersed $\hat{I}^2$ -nucleating agent with increased nucleation efficiency in isotactic polypropylene. <i>Polymer</i> , 2018, 151, 84-91.	3.8	24
12	High-throughput droplet microfluidic synthesis of hierarchical metal-organic framework nanosheet microcapsules. <i>Nano Research</i> , 2019, 12, 2736-2742.	10.4	23
13	Wear Resistance Mechanism of Ultrahigh-Molecular-Weight Polyethylene Determined from Its Structure-Property Relationships. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 19519-19530.	3.7	21
14	A highly active and selective $\hat{I}^2$ -nucleating agent for isotactic polypropylene and crystallization behavior of $\hat{I}^2$ -nucleated isotactic polypropylene under rapid cooling. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	20
15	A novel self-dispersed $\hat{I}^2$ nucleating agent for isotactic polypropylene and its unique nucleation behavior and mechanism. <i>Polymer</i> , 2017, 132, 69-78.	3.8	20
16	A novel highly efficient $\hat{I}^2$ -nucleating agent for isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2012, 123, 108-117.	2.6	19
17	Microfluidic preparation of PLGA microspheres as cell carriers with sustainable Rapa release. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 737-755.	3.5	16
18	Mechanism of boron carbide particles improving the wear resistance of UHMWPE: Structure-property relationship. <i>Polymer</i> , 2022, 245, 124733.	3.8	16

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19	Crystallization kinetics of isotactic polypropylene nucleated with organic dicarboxylic acid salts. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1471-1480.	2.6	15
20	The Crystallization Behavior of Isotactic Polypropylene Induced by a Novel Antinucleating Agent and Its Inhibition Mechanism of Nucleation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 7650-7657.	3.7	15
21	Shear-induced $\beta^2$ -form polypropylene in long chain branching isotactic polypropylene. <i>Polymer Engineering and Science</i> , 2016, 56, 240-247.	3.1	15
22	An effective nucleating agent for isotactic polypropylene (iPP): Zinc bis- (nadic anhydride) double-decker silsesquioxanes. <i>Polymer</i> , 2021, 220, 123574.	3.8	15
23	Preparation and foaming mechanism of foamable polypropylene based on self-assembled nanofibrils from sorbitol nucleating agents. <i>Journal of Materials Science</i> , 2016, 51, 788-796.	3.7	13
24	Rheological, crystallization and foaming behaviors of high melt strength polypropylene in the presence of polyvinyl acetate. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	13
25	Polydimethylsiloxane assisted supercritical CO <sub>2</sub> foaming behavior of high melt strength polypropylene grafted with styrene. <i>Frontiers of Chemical Science and Engineering</i> , 2016, 10, 396-404.	4.4	12
26	Effect of benzoic acid surface modified alumina nanoparticles on the mechanical properties and crystallization behavior of isotactic polypropylene nanocomposites. <i>RSC Advances</i> , 2018, 8, 20790-20800.	3.6	12
27	Combined effect of organic phosphate sodium and nanoclay on the mechanical properties and crystallization behavior of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2012, 123, 617-626.	2.6	11
28	Nucleation effects of zinc adipate as $\beta^2$ -Nucleating agent in ethylene-propylene block copolymerized polypropylene. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	11
29	The effects of octadecylamine functionalized multi-wall carbon nanotubes on the conductive and mechanical properties of ultra-high molecular weight polyethylene. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	11
30	Control of thermal degradation of poly(lactic acid) using functional polysilsesquioxane microspheres as chain extenders. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	10
31	Controllable preparation of SB-3CT loaded PLGA microcapsules for traumatic-brain-injury pharmaco-therapy. <i>Chemical Engineering Journal</i> , 2018, 339, 346-358.	12.7	10
32	A Novel Strategy for Achieving High Melt Strength Polypropylene and an Investigation of Its Foamability. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 1695-1714.	1.0	9
33	A novel $\beta^2$ -nucleating agent for isotactic polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 2029-2040.	3.6	9
34	Structural Relationships between Zinc Hexahydrophthalate and the $\beta^2$ Phase of Isotactic Polypropylene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 18529-18538.	3.7	9
35	Mechanism of size effects of a filler on the wear behavior of ultrahigh molecular weight polyethylene. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1950-1963.	3.5	9
36	Failure mechanism of zinc adipate as a $\beta^2$ -nucleating agent for polypropylene in the presence of calcium stearate. <i>Polymer</i> , 2021, 215, 123374.	3.8	9

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37	Conformation order of poly(L-lactic acid) chains during the melt crystallization process: infrared and two-dimensional infrared correlation spectroscopy study. <i>Journal of Materials Science</i> , 2016, 51, 4880-4887.	3.7	8
38	Effect of the Metal Phenylphosphonates on the Nonisothermal Crystallization and Performance of Isotactic Polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 161-173.	2.1	8
39	Increased nucleation efficiency of an in situ "formed" $\beta$ -nucleating agent for impact polypropylene copolymer. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	8
40	Influence of lanthanum stearate on the crystallization behavior of isotactic polypropylene. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 628-634.	1.5	7
41	13X zeolite as Difunctional nucleating agent regulating the crystal form and improving the Foamability of blocked copolymerized polypropylene in supercritical CO <sub>2</sub> foaming process. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	7
42	The mechanical properties, crystallization and rheological behavior of isotactic polypropylene with nucleating agent supported on polyhedral oligomeric silsesquioxanes (POSS). <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	7
43	Zinc pimelate as an effective $\beta$ -nucleating agent for isotactic polypropylene at elevated pressures and under rapid cooling rates. <i>Polymer Crystallization</i> , 2020, 3, e10132.	0.8	7
44	Relationship between Peroxide Initiators and Properties of Styrene Grafted Polypropylene via Reactive Extrusion. <i>Journal of Macromolecular Science - Physics</i> , 2018, 57, 377-394.	1.0	6
45	Effect of an active $\beta$ -nucleating agent on the crystallization behavior of polypropylene random copolymer. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	6
46	The nucleation effect of self-dispersed $\beta$ -nucleating agent in ethylene-propylene block copolymerized polypropylene. <i>Colloid and Polymer Science</i> , 2018, 296, 1627-1633.	2.1	5
47	Effect of the lanthanum and cerium phenylphosphonates on the crystallization and mechanical properties of isotactic polypropylene. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	5
48	Viscoelasticity, Tensile Properties, and Microstructure Development in Cyclic Olefin Copolymer/Polyolefin Elastomer Blends. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	2.2	5
49	Hygroscopic Hydrogels for Removal of Trace Water from Liquid Fuels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 17065-17071.	3.7	3
50	Unique crystallization behavior of isotactic polypropylene in the presence of L-isoleucine and its inhibition and promotion mechanism of nucleation. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45956.	2.6	2
51	Calcium Salt of L-Isoleucine-Phthalate: An $\beta$ -Nucleating Agent That Enhances the Crystallization Behavior and Mechanical Properties of Isotactic Polypropylene. <i>Journal of Macromolecular Science - Physics</i> , 2021, 60, 531-543.	1.0	2
52	A one-step deposition method to prepare separators with carbon soot loading for lithium-sulfur battery. <i>Ionics</i> , 2022, 28, 1693-1700.	2.4	2
53	Chain disentanglement in POSS/UHMWPE composites prepared via in-situ polymerization. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	2
54	The effect of bicyclo[2.2.1]heptane-2,3-dicarboxylate on the mechanical properties and crystallization behaviors of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2010, 116, 792-800.	2.6	1

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55	Effects of zinc isophthalate on the crystallization and crystal transformation behavior of polybutene alloy. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	0