

Jun Lei

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

2,118
citations

24
h-index

42
g-index

103
ext. papers

2,647
ext. citations

5
avg, IF

5.16
L-index

#	Paper	IF	Citations
103	Formation of Interlinked Shish-Kebabs in Injection-Molded Polyethylene under the Coexistence of Lightly Cross-Linked Chain Network and Oscillation Shear Flow. <i>Macromolecules</i> , 2012 , 45, 6600-6610	5.5	113
102	Formation of shish-kebabs in injection-molded poly(L-lactic acid) by application of an intense flow field. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6774-84	9.5	110
101	Synergetic enhancement of thermal conductivity by constructing hybrid conductive network in the segregated polymer composites. <i>Composites Science and Technology</i> , 2018 , 162, 7-13	8.6	105
100	Enhanced mechanical and thermal properties of rigid polyurethane foam composites containing graphene nanosheets and carbon nanotubes. <i>Polymer International</i> , 2012 , 61, 1107-1114	3.3	103
99	Tunable electromagnetic interference shielding effectiveness via multilayer assembly of regenerated cellulose as a supporting substrate and carbon nanotubes/polymer as a functional layer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3130-3138	7.1	92
98	Robustly Superhydrophobic Conductive Textile for Efficient Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1680-1688	9.5	90
97	In Situ Synchrotron X-ray Scattering Study on Isotactic Polypropylene Crystallization under the Coexistence of Shear Flow and Carbon Nanotubes. <i>Macromolecules</i> , 2011 , 44, 8080-8092	5.5	84
96	Highly thermal conductive, anisotropically heat-transferred, mechanically flexible composite film by assembly of boron nitride nanosheets for thermal management. <i>Composites Part B: Engineering</i> , 2020 , 180, 107569	10	69
95	Electrical conductivity and major mechanical and thermal properties of carbon nanotube-filled polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 3014-3019	2.9	63
94	Tuning the superstructure of ultrahigh-molecular-weight polyethylene/low-molecular-weight polyethylene blend for artificial joint application. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1521-9	9.5	56
93	Nacre-like composite films with high thermal conductivity, flexibility, and solvent stability for thermal management applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9018-9024	7.1	48
92	Dominant Form of Poly(L-lactic acid) Obtained Directly from Melt under Shear and Pressure Fields. <i>Macromolecules</i> , 2016 , 49, 3826-3837	5.5	47
91	Enhanced Thermal Conductivity of Segregated Poly(vinylidene fluoride) Composites via Forming Hybrid Conductive Network of Boron Nitride and Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10391-10397	3.9	47
90	Structuring dense three-dimensional sheet-like skeleton networks in biomass-derived carbon aerogels for efficient electromagnetic interference shielding. <i>Carbon</i> , 2019 , 152, 316-324	10.4	46
89	Wearable Polyethylene/Polyamide Composite Fabric for Passive Human Body Cooling. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41637-41644	9.5	45
88	Role of Stably Entangled Chain Network Density in Shish-Kebab Formation in Polyethylene under an Intense Flow Field. <i>Macromolecules</i> , 2015 , 48, 6652-6661	5.5	42
87	Enhanced thermal conductivity of polyethylene/boron nitride multilayer sheets through annealing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 107, 135-143	8.4	42

86	Shear-Induced Precursor Relaxation-Dependent Growth Dynamics and Lamellar Orientation of β Crystals in β Nucleated Isotactic Polypropylene. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5716-27	3.4	39
85	Isothermal and nonisothermal crystallization of isotactic polypropylene/graphene oxide nanosheet nanocomposites. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	39
84	Highly Anisotropic, Thermally Conductive, and Mechanically Strong Polymer Composites with Nacre-like Structure for Thermal Management Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3312-3320	5.6	35
83	Window of Pressure and Flow To Produce β Crystals in Isotactic Polypropylene Mixed with β Nucleating Agent. <i>Macromolecules</i> , 2017 , 50, 4807-4816	5.5	32
82	Flow and Pressure Jointly Induced Ultrahigh Melting Temperature Spherulites with Oriented Thick Lamellae in Isotactic Polypropylene. <i>Macromolecules</i> , 2015 , 48, 5834-5844	5.5	31
81	Novel passive cooling composite textile for both outdoor and indoor personal thermal management. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 130, 105738	8.4	31
80	Highly crystallized poly (lactic acid) under high pressure. <i>AIP Advances</i> , 2012 , 2, 042159	1.5	27
79	Can Relaxor Ferroelectric Behavior Be Realized for Poly(vinylidene fluoride-co-chlorotrifluoroethylene) [P(VDF/CTFE)] Random Copolymers by Inclusion of CTFE Units in PVDF Crystals?. <i>Macromolecules</i> , 2018 , 51, 5460-5472	5.5	24
78	Preparation and performance of segregated polymer composites with hybrid fillers of octadecylamine functionalized graphene and carbon nanotubes. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	23
77	Unexpected shear dependence of pressure-induced β crystals in isotactic polypropylene. <i>Polymer Chemistry</i> , 2015 , 6, 4588-4596	4.9	23
76	Highly thermally conductive and mechanically robust composite of linear ultrahigh molecular weight polyethylene and boron nitride via constructing nacre-like structure. <i>Composites Science and Technology</i> , 2019 , 184, 107858	8.6	22
75	Toward faster degradation for natural fiber reinforced poly(lactic acid) biocomposites by enhancing the hydrolysis-induced surface erosion. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	22
74	Biaxially self-reinforced high-density polyethylene prepared by dynamic packing injection molding. I. Processing parameters and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1584-1590	2.9	21
73	Percolation and resistivity-temperature behaviours of carbon nanotube-carbon black hybrid loaded ultrahigh molecular weight polyethylene composites with segregated structures. <i>RSC Advances</i> , 2015 , 5, 61318-61323	3.7	18
72	Isotactic polypropylene reinforced atactic polypropylene by formation of shish-kebab superstructure. <i>Polymer</i> , 2015 , 78, 120-133	3.9	17
71	Effect of different morphologies on the creep behavior of high-density polyethylene. <i>RSC Advances</i> , 2016 , 6, 3470-3479	3.7	16
70	Suppressing of β crystal formation in metallocene-based isotactic polypropylene during isothermal crystallization under shear flow. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5056-63	3.4	16
69	An electrically conductive polymer composite with a co-continuous segregated structure for enhanced mechanical performance. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11546-11554	7.1	16

68	Baroplastics with Robust Mechanical Properties and Reserved Processability through Hydrogen-Bonded Interactions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12008-12016	9.5	16
67	Effect of ion-dipole interaction on the formation of polar extended-chain crystals in high pressure-crystallized poly(vinylidene fluoride). <i>Polymer</i> , 2018 , 158, 204-212	3.9	15
66	A nacre-mimetic superstructure of poly(butylene succinate) structured by using an intense shear flow and ramie fiber as a promising strategy for simultaneous reinforcement and toughening. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22697-22707	13	14
65	The crystallization behavior of biodegradable poly(butylene succinate) in the presence of organically modified clay with a wide range of loadings. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015 , 33, 576-586	3.5	14
64	Significantly improved high-temperature performance of polymer dielectric via building nanosheets and confined space. <i>Composites Part B: Engineering</i> , 2020 , 196, 108108	10	14
63	PVDF/PMMA dielectric films with notably decreased dielectric loss and enhanced high-temperature tolerance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1043-1052	2.6	14
62	Efficient Utilization of Atactic Polypropylene in Its Isotactic Polypropylene Blends via Structuring Processing. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10144-10154	3.9	14
61	Highly Thermally Conductive Graphene-Based Thermal Interface Materials with a Bilayer Structure for Central Processing Unit Cooling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25325-25333	9.5	14
60	Achieving high thermal conductivity and mechanical reinforcement in ultrahigh molecular weight polyethylene bulk material. <i>Polymer</i> , 2019 , 180, 121760	3.9	13
59	Influence of the Compaction Temperature on the Electrical and Mechanical Properties of the Segregated Conductive Ultrahigh Molecular Weight Polyethylene/Carbon Nanotube Composite. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 1530-1536		13
58	Segregated Conductive Ultrahigh-Molecular-Weight Polyethylene Composites Containing High-Density Polyethylene as Carrier Polymer of Graphene Nanosheets. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 1483-1486		13
57	Repeatable, room-temperature-processed baroplastic-carbon nanotube composites for electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12955-12964	7.1	13
56	A Scalable Hybrid Fiber and Its Textile with Pore and Wrinkle Structures for Passive Personal Cooling. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000287	6.8	12
55	Hybrid Metamaterial Textiles for Passive Personal Cooling Indoors and Outdoors. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 4379-4386	4.3	12
54	Thicker Lamellae and Higher Crystallinity of Poly(lactic acid) via Applying Shear Flow and Pressure and Adding Poly(ethylene Glycol). <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5842-5852	3.4	11
53	Tailored Structure and Properties of Injection-Molded Atactic Polypropylene/Isotactic Polypropylene Blend. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 937-949	8.3	10
52	Biaxially self-reinforced high-density polyethylene prepared by dynamic packing injection molding. II. Microstructure investigation. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1591-1596	2.9	10
51	Multifunctional Membrane for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19301-19311	9.5	10

50	Ultrathin, flexible and sandwich-structured PHBV/silver nanowire films for high-efficiency electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3307-3315	7.1	10
49	An unusual promotion of β -crystals in metallocene-made isotactic polypropylene from orientational relaxation and favorable temperature window induced by shear. <i>Polymer</i> , 2018 , 134, 196-203	3.9	9
48	Temperature dependence of molecular conformation in uniaxially deformed isotactic polypropylene investigated by combination of polarized FTIR spectroscopy and 2D correlation analysis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 673-684	2.6	9
47	Ultraporous poly(lactic acid) scaffolds with improved mechanical performance using high-pressure molding and salt leaching. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 3509-3520	2.9	9
46	Enhanced thermal conductivity of multilayered sheets of polyethylene and boron nitride via promoting molecular diffusion between layers. <i>Journal of Applied Physics</i> , 2019 , 125, 205101	2.5	8
45	Effect of different morphologies on slow crack growth of high-density polyethylene. <i>RSC Advances</i> , 2015 , 5, 28191-28202	3.7	8
44	Effects of extrusion draw ratio on the morphology, structure and mechanical properties of poly(L-lactic acid) fabricated using solid state ram extrusion. <i>RSC Advances</i> , 2015 , 5, 69016-69023	3.7	8
43	High thermal conductivity of chain-aligned bulk linear ultra-high molecular weight polyethylene. <i>Journal of Applied Physics</i> , 2019 , 125, 245110	2.5	8
42	Morphology and Crystallization Behavior of Compatibilized Isotactic Polypropylene/Poly(butylene terephthalate) Blends under Shear Flow. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 507-513		8
41	Bi-axial self-reinforcement of high-density polyethylene induced by high-molecular weight polyethylene through dynamic packing injection molding. <i>Polymer International</i> , 2006 , 55, 1021-1026	3.3	8
40	Spectrally selective polyvinylidene fluoride textile for passive human body cooling. <i>Materials Today Energy</i> , 2020 , 18, 100504	7	8
39	Flexible Poly(vinylidene fluoride)-MXene/Silver Nanowire Electromagnetic Shielding Films with Joule Heating Performance. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9824-9832	3.9	8
38	A Criterion for Flow-Induced Oriented Crystals in Isotactic Polypropylene under Pressure. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700407	4.8	7
37	Preparation and properties of carbon nanotube/binary-polymer composites with a double-segregated structure. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	7
36	In-situ synchrotron x-ray scattering study on isothermal crystallization of ethylene-vinyl acetate copolymers containing a high weight fraction of carbon nanotubes and graphene nanosheets. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	7
35	Carbonized cotton textile with hierarchical structure for superhydrophobicity and efficient electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106555	8.4	7
34	Enhanced Dielectric and Ferroelectric Properties of Poly(vinylidene fluoride) through Annealing Oriented Crystallites under High Pressure. <i>Macromolecules</i> , 2022 , 55, 2014-2027	5.5	7
33	Vibration assisted extrusion of polypropylene. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015 , 33, 688-696	3.5	6

32	Flow-induced crystallization of polylactide stereocomplex under pressure. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46378	2.9	6
31	Quantification of pressure-induced β crystals in isotactic polypropylene: The influence of shear and carbon nanotubes. <i>Polymer Crystallization</i> , 2018 , 1, e10002	0.9	6
30	Simultaneously improving stiffness, toughness, and heat deflection resistance of polylactide using the strategy of orientation crystallization amplified by interfacial interactions. <i>Polymer Crystallization</i> , 2018 , 1, e10004	0.9	6
29	Morphologies and mechanical properties of HDPE induced by small amount of high-molecular-weight polyolefin and shear stress produced by dynamic packing injection molding. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2483-2487	2.9	6
28	A wearable multifunctional fabric with excellent electromagnetic interference shielding and passive radiation heating performance. <i>Composites Part B: Engineering</i> , 2021 , 225, 109299	10	6
27	Durably Ductile, Transparent Polystyrene Based on Extensional Stress-Induced Rejuvenation Stabilized by Styrene-Butadiene Block Copolymer Nanofibrils.. <i>ACS Macro Letters</i> , 2021 , 10, 71-77	6.6	5
26	Oriented Polar Crystals in Poly(Vinylidene Fluoride) Produced by Simultaneously Applying Pressure and Flow. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800299	2.6	5
25	Green Production of Covalently Functionalized Boron Nitride Nanosheets via Saccharide-Assisted Mechanochemical Exfoliation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11155-11162	8.3	5
24	Nonisothermal crystallization of isotactic polypropylene in carbon nanotube networks: The interplay of heterogeneous nucleation and confinement effect. <i>Journal of Thermoplastic Composite Materials</i> , 2016 , 29, 1352-1368	1.9	4
23	Role of lamellar thickening in thick lamellae formation in isotactic polypropylene when crystallizing under flow and pressure. <i>Polymer</i> , 2019 , 179, 121641	3.9	4
22	Coupling effect of pressure and flow fields on the crystallization of Poly(vinylidene fluoride)/Poly(methyl methacrylate) miscible blends. <i>Polymer</i> , 2021 , 220, 123565	3.9	4
21	Rapid Melt Crystallization of Bisphenol-A Polycarbonate Jointly Induced by Pressure and Flow. <i>Macromolecules</i> , 2021 , 54, 2383-2393	5.5	4
20	Flow-Induced Precursor Formation of Poly(L-lactic acid) under Pressure. <i>ACS Omega</i> , 2018 , 3, 15471-15481	3.9	4
19	High Power Continuous Wave Yb:YAG Composite Crystal Zigzag Slab Amplifier at Room Temperature. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-9	1.8	3
18	Study on Rheology of LLDPE under Compound Stress Field of Vibration and Shear in Extrusion Molding. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 1180-1184		3
17	Effect of oscillatory shear field on the morphology and mechanical properties of β nucleated isotactic polypropylene. <i>Polymer Engineering and Science</i> , 2017 , 57, 838-845	2.3	2
16	Evolution of Polymorphic Structure in β Nucleated Isotactic Polypropylene under a Certain Pressure: Effects of Temperature and Flow. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5677-5685	3.9	2
15	Correlation of Oscillation Cycles and Crystallization in HDPE Blends with Small Amounts of HMWPE Prepared by Dynamic-Packing Injection Molding. <i>Journal of Macromolecular Science - Physics</i> , 2009 , 48, 430-438	1.4	2

14	Enhancing thermal conductivity of silicone rubber via constructing hybrid spherical boron nitride thermal network. <i>Journal of Applied Polymer Science</i> , 51943	2.9	2
13	Transparent radiative cooling films containing poly(methylmethacrylate), silica, and silver. <i>Optical Materials</i> , 2021 , 122, 111651	3.3	2
12	Room-temperature repeatedly processable baroplastic/boron nitride thermal management composite. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10388-10397	7.1	2
11	Synergistic enhancement of crystallization and mechanical performance of polypropylene random copolymer by strong shear and nucleating agent. <i>Polymer International</i> , 2017 , 66, 1141-1150	3.3	1
10	Unique Banded Cylindrites of Polyoxymethylene/Poly(butylene succinate) Blends Induced by Interfacial Shear. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 2741-2750	4.3	1
9	Effects of Solvents on Stereocomplex Crystallization of High-Molecular-Weight Polylactic Acid Racemic Blends in the Presence of Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700292	2.6	1
8	Baroplastics with Ultrahigh Strength and Modulus via Hydrogen-Bonding Interactions with Agar. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5550-5557	4.3	1
7	Role of pressure in flow-induced shish-kabab in binary blend of long- and short-chain Polyethylenes. <i>Polymer Crystallization</i> , 2019 , 2, e10059	0.9	1
6	Better Choice: Linear Long Chains Rather than Branched Ones to Improve Mechanical Performance of Polyethylene through Generating Shish-Kebabs. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 715-729	3.5	1
5	Superior actuation performance and healability achieved in a transparent, highly stretchable dielectric elastomer film. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12239-12247	7.1	1
4	Insight into the Excellent Tribological Performance of Highly Oriented Poly(phenylene sulfide). <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022 , 40, 290-298	3.5	0
3	Surfactant-assisted fabrication of room-temperature self-healable dielectric elastomer toward actuation application. <i>Composites Part B: Engineering</i> , 2022 , 234, 109655	10	0
2	Dynamic chemical bonds design strategy for fabricating fast room-temperature healable dielectric elastomer with significantly improved actuation performance. <i>Chemical Engineering Journal</i> , 2022 , 439, 135683	14.7	0
1	A revisit to the flow and pressure jointly induced thick lamellae in isotactic polypropylene: A synchrotron radiation small- and wide-angle X-ray scattering study. <i>Polymer Crystallization</i> , 2019 , 2, e10039	0.9	0