

# Jun Lei

## List of Publications by Year in descending order

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103  
papers

3,211  
citations

126708

33  
h-index

174990

52  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2723  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.8	141
2	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.	2.7	137
3	Robustly Superhydrophobic Conductive Textile for Efficient Electromagnetic Interference Shielding. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1680-1688.	4.0	136
4	Enhanced mechanical and thermal properties of rigid polyurethane foam composites containing graphene nanosheets and carbon nanotubes. <i>Polymer International</i> , 2012, 61, 1107-1114.	1.6	132
5	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.	2.2	130
6	Formation of Shish-Kebabs in Injection-Molded Poly( $\epsilon$ -lactic acid) by Application of an Intense Flow Field. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6774-6784.	4.0	128
7	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.	5.9	114
8	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.	2.2	89
9	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.	2.7	79
10	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.	1.3	77
11	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.	5.4	76
12	Dominant $\beta$ -Form of Poly( $\epsilon$ -lactic acid) Obtained Directly from Melt under Shear and Pressure Fields. <i>Macromolecules</i> , 2016, 49, 3826-3837.	2.2	73
13	Tuning the Superstructure of Ultrahigh-Molecular-Weight Polyethylene/Low-Molecular-Weight Polyethylene Blend for Artificial Joint Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1521-1529.	4.0	66
14	Wearable Polyethylene/Polyamide Composite Fabric for Passive Human Body Cooling. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41637-41644.	4.0	65
15	Enhanced thermal conductivity of polyethylene/boron nitride multilayer sheets through annealing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 135-143.	3.8	62
16	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.	3.8	62
17	Enhanced Thermal Conductivity of Segregated Poly(vinylidene fluoride) Composites via Forming Hybrid Conductive Network of Boron Nitride and Carbon Nanotubes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 10391-10397.	1.8	58
18	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.	2.2	57

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19	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.	2.4	48
20	Window of Pressure and Flow To Produce $\beta$ -Crystals in Isotactic Polypropylene Mixed with $\beta$ -Nucleating Agent. <i>Macromolecules</i> , 2017, 50, 4807-4816.	2.2	47
21	Isothermal and nonisothermal crystallization of isotactic polypropylene/graphene oxide nanosheet nanocomposites. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	44
22	A wearable multifunctional fabric with excellent electromagnetic interference shielding and passive radiation heating performance. <i>Composites Part B: Engineering</i> , 2021, 225, 109299.	5.9	44
23	Shear-Induced Precursor Relaxation-Dependent Growth Dynamics and Lamellar Orientation of $\beta$ -Crystals in $\beta$ -Nucleated Isotactic Polypropylene. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5716-5727.	1.2	43
24	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.	3.8	42
25	Enhanced Dielectric and Ferroelectric Properties of Poly(vinylidene fluoride) through Annealing Oriented Crystallites under High Pressure. <i>Macromolecules</i> , 2022, 55, 2014-2027.	2.2	42
26	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.	2.7	40
27	Highly Thermally Conductive Graphene-Based Thermal Interface Materials with a Bilayer Structure for Central Processing Unit Cooling. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25325-25333.	4.0	39
28	Highly crystallized poly (lactic acid) under high pressure. <i>AIP Advances</i> , 2012, 2, .	0.6	38
29	Can Relaxor Ferroelectric Behavior Be Realized for Poly(vinylidene fluoride) Crystals? Units in PVDF Crystals?. <i>Macromolecules</i> , 2018, 51, 5460-5472.	2.2	38
30	Flexible Poly(vinylidene fluoride)-MXene/Silver Nanowire Electromagnetic Shielding Films with Joule Heating Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 9824-9832.	1.8	38
31	Flow and Pressure Jointly Induced Ultrahigh Melting Temperature Spherulites with Oriented Thick Lamellae in Isotactic Polypropylene. <i>Macromolecules</i> , 2015, 48, 5834-5844.	2.2	37
32	Multifunctional Membrane for Thermal Management Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19301-19311.	4.0	36
33	Hybrid Metamaterial Textiles for Passive Personal Cooling Indoors and Outdoors. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4379-4386.	2.0	35
34	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.	2.7	34
35	A Scalable Hybrid Fiber and Its Textile with Pore and Wrinkle Structures for Passive Personal Cooling. <i>Advanced Materials Technologies</i> , 2020, 5, 2000287.	3.0	33
36	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.	1.2	31

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37	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.	2.4	31
38	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.	3.8	28
39	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.	1.3	25
40	Unexpected shear dependence of pressure-induced $\beta$ -crystals in isotactic polypropylene. <i>Polymer Chemistry</i> , 2015, 6, 4588-4596.	1.9	25
41	Achieving high thermal conductivity and mechanical reinforcement in ultrahigh molecular weight polyethylene bulk material. <i>Polymer</i> , 2019, 180, 121760.	1.8	25
42	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.	1.2	24
43	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.	1.8	23
44	Green Production of Covalently Functionalized Boron Nitride Nanosheets via Saccharide-Assisted Mechanochemical Exfoliation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11155-11162.	3.2	23
45	Significantly improved high-temperature performance of polymer dielectric via building nanosheets and confined space. <i>Composites Part B: Engineering</i> , 2020, 196, 108108.	5.9	22
46	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.	1.7	21
47	Baroplastics with Robust Mechanical Properties and Reserved Processability through Hydrogen-Bonded Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12008-12016.	4.0	21
48	Transparent radiative cooling films containing poly(methylmethacrylate), silica, and silver. <i>Optical Materials</i> , 2021, 122, 111651.	1.7	21
49	Isotactic polypropylene reinforced atactic polypropylene by formation of shish-kebab superstructure. <i>Polymer</i> , 2015, 78, 120-133.	1.8	20
50	Effect of different morphologies on the creep behavior of high-density polyethylene. <i>RSC Advances</i> , 2016, 6, 3470-3479.	1.7	20
51	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.	1.2	19
52	Spectrally selective polyvinylidene fluoride-textile for passive human body cooling. <i>Materials Today Energy</i> , 2020, 18, 100504.	2.5	19
53	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.	5.2	18
54	Suppressing of $\beta$ -Crystal Formation in Metallocene-Based Isotactic Polypropylene during Isothermal Crystallization under Shear Flow. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5056-5063.	1.2	17

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55	Repeatable, room-temperature-processed baroplastic-carbon nanotube composites for electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12955-12964.	2.7	17
56	Rapid Melt Crystallization of Bisphenol-A Polycarbonate Jointly Induced by Pressure and Flow. <i>Macromolecules</i> , 2021, 54, 2383-2393.	2.2	17
57	Efficient Utilization of Atactic Polypropylene in Its Isotactic Polypropylene Blends via "Structuring" Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 10144-10154.	1.8	16
58	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.	6.6	16
59	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.	1.9	15
60	Tailored Structure and Properties of Injection-Molded Atactic Polypropylene/Isotactic Polypropylene Blend. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 937-949.	3.2	15
61	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.	2.0	15
62	High thermal conductivity of chain-aligned bulk linear ultra-high molecular weight polyethylene. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	15
63	An unusual promotion of $\beta$ -crystals in metallocene-made isotactic polypropylene from orientational relaxation and favorable temperature window induced by shear. <i>Polymer</i> , 2018, 134, 196-203.	1.8	14
64	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.	1.9	13
65	Coupling effect of pressure and flow fields on the crystallization of Poly(vinylidene fluoride). <i>Journal of Applied Polymer Science</i> , 2014, 112, 1075-1082.	1.8	13
66	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.	2.7	13
67	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.	1.3	12
68	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.	2.4	12
69	A Criterion for Flow-Induced Oriented Crystals in Isotactic Polypropylene under Pressure. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700407.	2.0	12
70	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.	2.3	12
71	Effect of different morphologies on slow crack growth of high-density polyethylene. <i>RSC Advances</i> , 2015, 5, 28191-28202.	1.7	11
72	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.	1.6	10

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73	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.	0.5	10
74	Morphology and Crystallization Behavior of Compatibilized Isotactic Polypropylene/Poly(butylene Terephthalate) Blends. <i>Polymer</i> , 2018, 59, 507-513.	1.9	9
75	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.	1.2	9
76	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.	1.3	9
77	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.	1.7	9
78	Flow-induced crystallization of polylactide stereocomplex under pressure. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46378.	1.3	9
79	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.	1.3	8
80	Preparation and properties of carbon nanotube/binary polymer composites with a double segregated structure. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	8
81	Vibration assisted extrusion of polypropylene. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015, 33, 688-696.	2.0	8
82	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, .	1.1	8
83	Surfactant-assisted fabrication of room-temperature self-healable dielectric elastomer toward actuation application. <i>Composites Part B: Engineering</i> , 2022, 234, 109655.	5.9	8
84	Flow-Induced Precursor Formation of Poly(l-lactic acid) under Pressure. <i>ACS Omega</i> , 2018, 3, 15471-15481.	1.6	7
85	Role of lamellar thickening in thick lamellae formation in isotactic polypropylene when crystallizing under flow and pressure. <i>Polymer</i> , 2019, 179, 121641.	1.8	7
86	Enhancing thermal conductivity of silicone rubber via constructing hybrid spherical boron nitride thermal network. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51943.	1.3	7
87	Quantification of pressure-induced $\beta$ -crystals in isotactic polypropylene: The influence of shear and carbon nanotubes. <i>Polymer Crystallization</i> , 2018, 1, e10002.	0.5	6
88	Oriented Polar Crystals in Poly(Vinylidene Fluoride) Produced by Simultaneously Applying Pressure and Flow. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800299.	1.1	6
89	Nonisothermal crystallization of isotactic polypropylene in carbon nanotube networks. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 1352-1368.	2.6	5
90	High Power Continuous Wave Yb:YAG Composite Crystal Zigzag Slab Amplifier at Room Temperature. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	5

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91	Unique Banded Cylindrites of Polyoxymethylene/Poly(butylene succinate) Blends Induced by Interfacial Shear. ACS Applied Polymer Materials, 2019, 1, 2741-2750.	2.0	4
92	Evolution of Polymorphic Structure in Î <sup>2</sup> -Nucleated Isotactic Polypropylene under a Certain Pressure: Effects of Temperature and Flow. Industrial & Engineering Chemistry Research, 2019, 58, 5677-5685.	1.8	4
93	Better Choice: Linear Long Chains Rather than Branched Ones to Improve Mechanical Performance of Polyethylene through Generating Shish-Kebabs. Chinese Journal of Polymer Science (English Edition), 2020, 38, 715-729.	2.0	4
94	Study on Rheology of LLDPE under Compound Stress Field of Vibration and Shear in Extrusion Molding. Polymer-Plastics Technology and Engineering, 2009, 48, 1180-1184.	1.9	3
95	Synergistic enhancement of crystallization and mechanical performance of polypropylene random copolymer by strong shear and Î <sup>2</sup> -nucleating agent. Polymer International, 2017, 66, 1141-1150.	1.6	3
96	Effects of Solvents on Stereocomplex Crystallization of High-Molecular-Weight Polylactic Acid Racemic Blends in the Presence of Carbon Nanotubes. Macromolecular Chemistry and Physics, 2017, 218, 1700292.	1.1	3
97	Insight into the Excellent Tribological Performance of Highly Oriented Poly(phenylene sulfide). Chinese Journal of Polymer Science (English Edition), 2022, 40, 290-298.	2.0	3
98	Correlation of Oscillation Cycles and Crystallization in HDPE Blends with Small Amounts of HMWPE Prepared by Dynamic-Packing Injection Molding. Journal of Macromolecular Science - Physics, 2009, 48, 430-438.	0.4	2
99	Effect of oscillatory shear field on the morphology and mechanical properties of Î <sup>2</sup> -nucleated isotactic polypropylene. Polymer Engineering and Science, 2017, 57, 838-845.	1.5	2
100	Room-temperature repeatedly processable baroplastic/boron nitride thermal management composite. Journal of Materials Chemistry C, 2021, 9, 10388-10397.	2.7	2
101	Role of pressure in flow-induced shish-kebab in binary blend of long- and short-chain Polyethylenes. Polymer Crystallization, 2019, 2, e10059.	0.5	1
102	Baroplastics with Ultrahigh Strength and Modulus via Hydrogen-Bonding Interactions with Agar. ACS Applied Polymer Materials, 2020, 2, 5550-5557.	2.0	1
103	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. Polymer Crystallization, 2019, 2, e10035.	0.5	0