Zheng-Ying Liu

List of Publications by Year
in descending order

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124	4,798	94269	110170
papers	citations	37 h-index	64 g-index

125	125	125	4704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid graphene aerogels/phase change material composites: Thermal conductivity, shape-stabilization and light-to-thermal energy storage. Carbon, 2016, 100, 693-702.	5.4	351
2	An ice-templated assembly strategy to construct graphene oxide/boron nitride hybrid porous scaffolds in phase change materials with enhanced thermal conductivity and shape stability for lightâ€“thermalâ€“electric energy conversion. Journal of Materials Chemistry A, 2016, 4, 18841-18851.	5.2	216
3	Flexible Anti-Biofouling MXene/Cellulose Fibrous Membrane for Sustainable Solar-Driven Water Purification. ACS Applied Materials & Interfaces, 2019, 11, 36589-36597.	4.0	216
4	Macroporous three-dimensional MXene architectures for highly efficient solar steam generation. Journal of Materials Chemistry A, 2019, 7, 10446-10455.	5.2	208
5	High-performance composite phase change materials for energy conversion based on macroscopically three-dimensional structural materials. Materials Horizons, 2019, 6, 250-273.	6.4	187
6	Multilayer structured AgNW/WPU-MXene fiber strain sensors with ultrahigh sensitivity and a wide operating range for wearable monitoring and healthcare. Journal of Materials Chemistry A, 2019, 7, 15913-15923.	5.2	184
7	Self-assembled core-shell polydopamine@MXene with synergistic solar absorption capability for highly efficient solar-to-vapor generation. Nano Research, 2020, 13, 255-264.	5.8	174
8	Novel photodriven composite phase change materials with bioinspired modification of BN for solar-thermal energy conversion and storage. Journal of Materials Chemistry A, 2016, 4, 9625-9634.	5.2	163
9	Multifunctional Thermal Management Materials with Excellent Heat Dissipation and Generation Capability for Future Electronics. ACS Applied Materials & Interfaces, 2019, 11, 18739-18745.	4.0	116
10	A bridge-arched and layer-structured hollow melamine foam/reduced graphene oxide composite with an enlarged evaporation area and superior thermal insulation for high-performance solar steam generation. Journal of Materials Chemistry A, 2020, 8, 2701-2711.	5.2	103
11	Photodriven Shape-Stabilized Phase Change Materials with Optimized Thermal Conductivity by Tailoring the Microstructure of Hierarchically Ordered Hybrid Porous Scaffolds. ACS Sustainable Chemistry and Engineering, 2018, 6, 6761-6770.	3.2	88
12	Electrically insulating POE/BN elastomeric composites with high through-plane thermal conductivity fabricated by two-roll milling and hot compression. Advanced Composites and Hybrid Materials, 2018, 1, 160-167.	9.9	81
13	Effect of temperature, crystallinity and molecular chain orientation on the thermal conductivity of polymers: a case study of PLLA. Journal of Materials Science, 2018, 53, 10543-10553.	1.7	79
14	Human Skin-Inspired Electronic Sensor Skin with Electromagnetic Interference Shielding for the Sensation and Protection of Wearable Electronics. ACS Applied Materials & Interfaces, 2018, 10, 40880-40889.	4.0	78
15	A strain localization directed crack control strategy for designing MXene-based customizable sensitivity and sensing range strain sensors for full-range human motion monitoring. Nano Energy, 2020, 74, 104814.	8.2	77
16	Recent Advances in Multiresponsive Flexible Sensors towards Eâ€skin: A Delicate Design for Versatile Sensing. Small, 2022, 18, e2103734.	5.2	76
17	Towards balanced strength and toughness improvement of isotactic polypropylene nanocomposites by surface functionalized graphene oxide. Journal of Materials Chemistry A, 2014, 2, 3190-3199.	5.2	70
18	Surperhydrophobic polyurethane foam modified by graphene oxide. Journal of Applied Polymer Science, 2013, 130, 3530-3536.	1.3	67

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19	Enhancing Thermomechanical Properties and Heat Distortion Resistance of Poly(<scp>l</scp>-lactide) with High Crystallinity under High Cooling Rate. ACS Sustainable Chemistry and Engineering, 2015, 3, 654-661.	3.2	67
20	Tannic acid functionalized graphene hydrogel for organic dye adsorption. Ecotoxicology and Environmental Safety, 2018, 165, 299-306.	2.9	66
21	Electro and Light-Active Actuators Based on Reversible Shape-Memory Polymer Composites with Segregated Conductive Networks. ACS Applied Materials & Interfaces, 2019, 11, 30332-30340.	4.0	66
22	Inorganic silica functionalized with PLLA chains via grafting methods to enhance the melt strength of PLLA/silica nanocomposites. Polymer, 2014, 55, 5760-5772.	1.8	61
23	Nanofibrillar Poly(vinyl alcohol) Ionic Organohydrogels for Smart Contact Lens and Human-Interactive Sensing. ACS Applied Materials & Interfaces, 2020, 12, 23514-23522.	4.0	59
24	Morphology, rheology, crystallization behavior, and mechanical properties of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (a 2014, 131, .	1.3	57
25	A Facile Route to Fabricate Highly Anisotropic Thermally Conductive Elastomeric POE/NG Composites for Thermal Management. Advanced Materials Interfaces, 2018, 5, 1700946.	1.9	56
26	Two-step positive temperature coefficient effect with favorable reproducibility achieved by specific â€œisland-bridgeâ€•electrical conductive networks in HDPE/PVDF/CNF composite. Composites Part A: Applied Science and Manufacturing, 2017, 94, 21-31.	3.8	51
27	Tuning the structure of graphene oxide and the properties of poly(vinyl alcohol)/graphene oxide nanocomposites by ultrasonication. Journal of Materials Chemistry A, 2013, 1, 3163.	5.2	49
28	Hierarchically Porous PVA Aerogel for Leakage-Proof Phase Change Materials with Superior Energy Storage Capacity. Energy & Fuels, 2020, 34, 2471-2479.	2.5	49
29	Surface structure engineering for a bionic fiber-based sensor toward linear, tunable, and multifunctional sensing. Materials Horizons, 2020, 7, 2450-2459.	6.4	47
30	Dopamine-induced functionalization of cellulose nanocrystals with polyethylene glycol towards poly(L-lactic acid) bionanocomposites for green packaging. Carbohydrate Polymers, 2019, 203, 275-284.	5.1	45
31	Hierarchical unidirectional graphene aerogel/polyaniline composite for high performance supercapacitors. Journal of Power Sources, 2018, 397, 189-195.	4.0	44
32	Electrical properties and morphology of carbon black filled PP/EPDM blends: effect of selective distribution of fillers induced by dynamic vulcanization. Journal of Materials Science, 2013, 48, 4942-4951.	1.7	42
33	A high-performance temperature sensitive TPV/CB elastomeric composite with balanced electrical and mechanical properties via PF-induced dynamic vulcanization. Journal of Materials Chemistry A, 2014, 2, 16989-16996.	5.2	42
34	Effects of annealing on structure and deformation mechanism of isotactic polypropylene film with rowâ€•nucleated lamellar structure. Journal of Applied Polymer Science, 2013, 130, 1659-1666.	1.3	40
35	Greatly accelerated crystallization of poly(lactic acid): cooperative effect of stereocomplex crystallites and polyethylene glycol. Colloid and Polymer Science, 2014, 292, 163-172.	1.0	40
36	High-melting-point crystals of poly(<scp>l</scp>-lactic acid) (PLLA): the most efficient nucleating agent to enhance the crystallization of PLLA. CrystEngComm, 2015, 17, 2310-2320.	1.3	39

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37	High actuated performance MWCNT/Ecoflex dielectric elastomer actuators based on layer-by-layer structure. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105527.	3.8	39
38	Grafting polymerization of polylactic acid on the surface of nanoâ€SiO₂ and properties of PLA/PLAâ€graftedâ€SiO₂ nanocomposites. Journal of Applied Polymer Science, 2013, 129, 3019-3027.	1.3	38
39	Effect of the carbon black structure on the stability and efficiency of the conductive network in polyethylene composites. Journal of Applied Polymer Science, 2013, 129, 3382-3389.	1.3	37
40	Tailoring Crystalline Morphology by High-Efficiency Nucleating Fiber: Toward High-Performance Poly(<scp>l</scp>-lactide) Biocomposites. ACS Applied Materials & Interfaces, 2018, 10, 20044-20054.	4.0	36
41	Scalable Flexible Phase Change Materials with a Swollen Polymer Network Structure for Thermal Energy Storage. ACS Applied Materials & Interfaces, 2021, 13, 59364-59372.	4.0	36
42	Preparation of cellulose-graft-polylactic acid via melt copolycondensation for use in polylactic acid based composites: synthesis, characterization and properties. RSC Advances, 2016, 6, 1973-1983.	1.7	35
43	Control of morphology and properties by the selective distribution of nano-silica particles with different surface characteristics in PA6/ABS blends. Journal of Materials Science, 2012, 47, 4620-4631.	1.7	34
44	Enhanced Thermal Conductivity and Balanced Mechanical Performance of PP/BN Composites with 1 vol% Finely Dispersed MWCNTs Assisted by OBC. Advanced Materials Interfaces, 2019, 6, 1900081.	1.9	33
45	Interfacial relaxation mechanisms in polymer nanocomposites through the rheological study on polymer/grafted nanoparticles. Polymer, 2016, 90, 264-275.	1.8	32
46	Scalable fabrication of flexible piezoresistive pressure sensors based on occluded microstructures for subtle pressure and force waveform detection. Journal of Materials Chemistry C, 2020, 8, 16774-16783.	2.7	32
47	Polymorphism of a high-molecular-weight racemic poly(<scp>l</scp>-lactide)/poly(<scp>d</scp>-lactide) blend: effect of melt blending with poly(methyl) Tj ETQq1 1 0.784314 rgBT /Over	1.7	31
48	Unusual positive temperature coefficient effect of polyolefin/carbon fiber conductive composites. Materials Letters, 2016, 164, 587-590.	1.3	30
49	Super-Toughed PLA Blown Film with Enhanced Gas Barrier Property Available for Packaging and Agricultural Applications. Materials, 2019, 12, 1663.	1.3	30
50	The effect of the grafted chains on the crystallization of PLLA/PLLA-grafted SiO2 nanocomposites. Colloid and Polymer Science, 2016, 294, 801-813.	1.0	28
51	Compatibilization of the poly(lactic acid)/poly(propylene carbonate) blends through in situ formation of poly(lactic acid)â€bâ€poly(propylene carbonate) copolymer. Journal of Applied Polymer Science, 2018, 135, 46009.	1.3	28
52	Formation and evolution of the carbon black network in polyethylene/carbon black composites: Rheology and conductivity properties. Journal of Applied Polymer Science, 2014, 131, .	1.3	26
53	Progress in polyketone materials: blends and composites. Polymer International, 2018, 67, 1478-1487.	1.6	26
54	Mechanochemical preparation of thermoplastic cellulose oleate by ball milling. Green Chemistry, 2021, 23, 2069-2078.	4.6	26

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55	Crystallization and morphology of iPP/MWCNT prepared by compounding iPP melt with MWCNT aqueous suspension. Colloid and Polymer Science, 2009, 287, 615-620.	1.0	25
56	Dynamic Electrical and Rheological Percolation in Isotactic Poly(propylene)/Carbon Black Composites. Macromolecular Materials and Engineering, 2012, 297, 51-59.	1.7	24
57	Role of poly(lactic acid) in the phase transition of poly(vinylidene fluoride) under uniaxial stretching. Journal of Applied Polymer Science, 2013, 129, 1686-1696.	1.3	24
58	Supercooling-dependent morphology evolution of an organic nucleating agent in poly(<scp>l</scp>-lactide)/poly(<scp>d</scp>-lactide) blends. CrystEngComm, 2017, 19, 1648-1657.	1.3	24
59	Effect of cross-linking degree of EPDM phase on the electrical properties and formation of dual networks of thermoplastic vulcanizate composites based on isotactic polypropylene (iPP)/ethyleneâ€“propyleneâ€“diene rubber (EPDM) blends. RSC Advances, 2016, 6, 74567-74574.	1.7	23
60	Essential work of fracture evaluation of fracture behavior of glass bead filled linear low-density polyethylene. Journal of Applied Polymer Science, 2006, 99, 1781-1787.	1.3	21
61	Balanced strength and ductility improvement of in situ crosslinked polylactide/poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	21
62	Distinct positive temperature coefficient effect of polymerâ€“carbon fiber composites evaluated in terms of polymer absorption on fiber surface. Physical Chemistry Chemical Physics, 2016, 18, 8081-8087.	1.3	21
63	Direct modification of polyketone resin for anion exchange membrane of alkaline fuel cells. Journal of Colloid and Interface Science, 2019, 556, 420-431.	5.0	20
64	Enantiomeric poly(<scp>d</scp>-lactide) with a higher melting point served as a significant nucleating agent for poly(<scp>l</scp>-lactide). CrystEngComm, 2015, 17, 4334-4342.	1.3	19
65	Effect of aspect ratio of multi-wall carbon nanotubes on the dispersion in ethylene-Î±-octene block copolymer and the properties of the Nanocomposites. Journal of Polymer Research, 2019, 26, 1.	1.2	19
66	Leakage-Proof and Malleable Polyethylene Wax Vitrimer Phase Change Materials for Thermal Interface Management. ACS Applied Energy Materials, 2021, 4, 11173-11182.	2.5	19
67	Enhancement effect of filler network on isotactic polypropylene/carbon black composite melts. Colloid and Polymer Science, 2011, 289, 1673-1681.	1.0	18
68	Electrospun Modified Polyketone-Based Anion Exchange Membranes with High Ionic Conductivity and Robust Mechanical Properties. ACS Applied Energy Materials, 2021, 4, 5187-5200.	2.5	18
69	Vitrimers of polyolefin elastomer with physically cross-linked network. Journal of Polymer Research, 2021, 28, 1.	1.2	17
70	Effect of compounding procedure on morphology and crystallization behavior of isotactic polypropylene/highâ€density polyethylene/carbon black ternary composites. Polymers for Advanced Technologies, 2012, 23, 1112-1120.	1.6	16
71	Composition, Morphology and Properties of Poly(lactic acid) and Poly(butylene succinate) Copolymer System via Coupling Reaction. Journal of Macromolecular Science - Pure and Applied Chemistry, 2013, 50, 861-870.	1.2	16
72	Improved dielectric properties of polymer-based composites with carboxylic functionalized multiwalled carbon nanotubes. Journal of Thermoplastic Composite Materials, 2019, 32, 473-486.	2.6	16

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73	Enhancing crystallization rate and melt strength of <scp>PLLA</scp> with fourâ€arm <scp>PLLA</scp> grafted silica: The effect of molecular weight of the grafting <scp>PLLA</scp> chains. Journal of Applied Polymer Science, 2018, 135, 45675.	1.3	15
74	Tunable wrinkle structure formed on surface of polydimethylsiloxane microspheres. European Polymer Journal, 2018, 104, 99-105.	2.6	15
75	Electrolyte permeation and ion diffusion enhanced architectures for high performance all-solid-state flexible supercapacitors. Journal of Power Sources, 2021, 482, 228996.	4.0	15
76	Gelation of attractive particles in polymer melt. Polymer, 2012, 53, 4293-4299.	1.8	14
77	Preparing iPP/HDPE/CB functionally gradient materials: influence factors of components and processing. Polymers for Advanced Technologies, 2012, 23, 695-701.	1.6	14
78	An enhancement on the dielectric performance of poly(vinylidene fluoride)-based composite with graphene oxide-BaTiO₃ hybrid. Nanocomposites, 2019, 5, 61-66.	2.2	14
79	A highly-deformable piezoresistive film composed of a network of carbon blacks and highly oriented lamellae of high-density polyethylene. RSC Advances, 2015, 5, 31074-31080.	1.7	13
80	Strong shear-driven large scale formation of hybrid shish-kebab in carbon nanofiber reinforced polyethylene composites during the melt second flow. Physical Chemistry Chemical Physics, 2016, 18, 30452-30461.	1.3	12
81	A novel approach in preparing polymer/nano-CaCO3 composites. Frontiers of Chemical Engineering in China, 2008, 2, 115-122.	0.6	11
82	Shear field in the mold cavity of multimelt multiâ€injection molding revealed by the morphology distribution of a model polymer blend. Polymer Engineering and Science, 2014, 54, 2345-2353.	1.5	11
83	Imidazole-functionalized polyketone-based polyelectrolytes with efficient ionic channels and superwettability for alkaline polyelectrolyte fuel cells and multiple liquid purification. Journal of Materials Chemistry A, 2021, 9, 14827-14840.	5.2	11
84	In-situ construction of high-modulus nanospheres on elastomer fibers for linearity-tunable strain sensing. Chemical Engineering Journal, 2022, 431, 133488.	6.6	11
85	Effect of Î±â€and Î²â€nucleating agents on the fracture behavior of polypropyleneâ€coâ€ethylene. Journal of Applied Polymer Science, 2008, 108, 591-597.	1.3	10
86	Effect of Processing Method on Morphological and Rheological Properties of PC/CaCO3Nanocomposites. Polymer-Plastics Technology and Engineering, 2009, 48, 788-793.	1.9	10
87	Preparation of carbon black/polypropylene nanocomposite with low percolation threshold using mild blending method. Journal of Applied Polymer Science, 2010, 115, 2629-2634.	1.3	10
88	Insight into the nucleating and reinforcing efficiencies of carbon nanofillers in poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 2013, 48, 8509-8519.	1.7	10
89	An unusual transition from point-like to fibrillar crystals in injection-molded polyethylene articles induced by lightly cross-linking and melt penetration. RSC Advances, 2015, 5, 21640-21650.	1.7	10
90	Photo-Driven Self-Healing of Arbitrary Nondestructive Damage in Polyethylene-Based Nanocomposites. ACS Applied Materials & Interfaces, 2020, 12, 1650-1657.	4.0	9

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91	Synthesis of thermoplastic cellulose grafted polyurethane from regenerated cellulose. Cellulose, 2020, 27, 8667-8679.	2.4	9
92	Study on the improved electromechanical properties of composited dielectric elastomer by tailoring three-dimensional segregated multi-walled carbon nanotube (MWCNT) network. Composites Science and Technology, 2022, 223, 109424.	3.8	9
93	Effect of Injection Parameters and Addition of Nanoscale Materials on the Shrinkage of Polypropylene Copolymer. Journal of Macromolecular Science - Physics, 2009, 48, 573-586.	0.4	8
94	Factors influencing the resistivityâ€“temperature behavior of carbon black filled isotactic polypropylene/high density polyethylene composites. Polymer Bulletin, 2014, 71, 1403-1419.	1.7	8
95	Enhanced dielectric properties of polyamide 11/multiâ€walled carbon nanotubes composites. Journal of Applied Polymer Science, 2015, 132, .	1.3	8
96	Morphological Evolution of Polystyrene/PolyÂethylene Blend Induced by Strong Second Melt Penetration. Macromolecular Materials and Engineering, 2016, 301, 714-724.	1.7	8
97	High Efficiency Conversion of Regenerated Cellulose Hydrogel Directly to Functionalized Cellulose Nanoparticles. Macromolecular Rapid Communications, 2017, 38, 1700409.	2.0	8
98	Enhanced performance of porous silicone-based dielectric elastomeric composites by low filler content of Ag@SiO₂ Core-Shell nanoparticles. Nanocomposites, 2018, 4, 238-243.	2.2	8
99	Enhanced Rheological Properties of PLLA with a Purpose-Designed PDLA-b-PEG-b-PDLA Triblock Copolymer and the Application in the Film Blowing Process to Acquire Biodegradable PLLA Films. ACS Omega, 2019, 4, 13295-13302.	1.6	8
100	A facile strategy towards heterogeneous preparation of thermoplastic cellulose grafted polyurethane from amorphous regenerated cellulose paste. International Journal of Biological Macromolecules, 2020, 161, 177-186.	3.6	8
101	Construction of dual conductive network in paper-based composites towards flexible degradable dual-mode sensor. Composites Part A: Applied Science and Manufacturing, 2021, 151, 106649.	3.8	8
102	A dynamic study on nonlinear viscoelastic behavior of isotactic polypropylene/carbon black composite melts. Colloid and Polymer Science, 2011, 289, 1927-1931.	1.0	7
103	New insights into the elasticity and multi-level relaxation of filler network with studies on the rheology of isotactic polypropylene/carbon black nanocomposite. RSC Advances, 2015, 5, 65874-65883.	1.7	7
104	Motion mode of poly(lactic acid) chains in film during strainâ€induced crystallization. Journal of Applied Polymer Science, 2016, 133, .	1.3	7
105	Hierarchical crystalline structures induced by temperature profile in HDPE bars during melt penetration process. Chinese Journal of Polymer Science (English Edition), 2017, 35, 108-122.	2.0	7
106	Synthesis of Inorganic Silica Grafted Three-arm PLLA and Their Behaviors for PLA Matrix. Chinese Journal of Polymer Science (English Edition), 2019, 37, 216-226.	2.0	7
107	Hierarchical crystalline morphologies induced by a distinctly different melt penetrating process. RSC Advances, 2015, 5, 98299-98308.	1.7	6
108	A new understanding concerning the influence of structural changes on the thermal behavior of cellulose. Journal of Polymer Research, 2015, 22, 1.	1.2	6

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109	Preparation of functionalized cellulose nanoparticles and their effect on the crystallization behaviors of poly(<scp>l</scp>â€lactide) based nanocomposites. Polymer International, 2018, 67, 1535-1544.	1.6	6
110	A Facile and Rapid Approach to Lotusâ€Seedpodâ€Structured Electronic Skin for Monitoring Diverse Physical Stimuli. Advanced Materials Technologies, 2021, 6, 2001084.	3.0	6
111	Polyaniline/Smallâ€Sized MXene/Carbon Cloth Electrodes with 3D Hierarchical Porous Structure for Allâ€Solidâ€State Flexible Supercapacitors. Energy Technology, 2022, 10, .	1.8	6
112	Phase morphology control and the selective localization of MWCNT for suppressing dielectric loss and enhancing the dielectric constant of HDPE/PA11/MWCNT composites. RSC Advances, 2016, 6, 73056-73062.	1.7	5
113	Highly anisotropic functional conductors fabricated by multi-melt multi-injection molding (M3IM): A synergetic role of multiple melt flows and confined interface. Composites Science and Technology, 2019, 171, 127-134.	3.8	5
114	Morphologies, interfacial interaction and mechanical performance of super-tough nanostructured PK/PA6 blends. Polymer Testing, 2020, 91, 106777.	2.3	5
115	Study of the morphology and temperature-resistivity effect of injection-molded iPP/HDPE/CB composites. Polymer Bulletin, 2014, 71, 1711-1725.	1.7	4
116	Enhancing the conductivity of isotactic polypropylene/polyethylene/carbon black composites by oscillatory shear. Colloid and Polymer Science, 2013, 291, 3005-3011.	1.0	3
117	Preparation and characterization of isotactic polypropylene/highâ€density polyethylene/carbon black conductive films with strainâ€sensing behavior. Journal of Applied Polymer Science, 2014, 131, .	1.3	3
118	The molecular weight dependence of the crystallization behavior of four-arm poly(L-lactide). Colloid and Polymer Science, 2016, 294, 1865-1870.	1.0	3
119	Role of Controlled Diameter of Polyamide 6 (PA6) Fibers on the Formation of Interfacial Hybrid Crystal Morphology in HDPE/PA6 Microfibril Blend. Industrial & Engineering Chemistry Research, 2019, 58, 9056-9064.	1.8	3
120	Excellent mechanical performance and enhanced dielectric properties of OBC/SiO2 elastomeric nanocomposites: effect of dispersion of the SiO2 nanoparticles. RSC Advances, 2017, 7, 46297-46305.	1.7	2
121	Isothermal-Treatment-Induced Network Formation of Carbon Black in Isotactic Polypropylene/Carbon Black Composites. Journal of Macromolecular Science - Physics, 2013, 52, 762-772.	0.4	1
122	New understanding for the formation of conductive network in the nanocomposites during the crystallization of matrix. Journal of Polymer Research, 2016, 23, 1.	1.2	1
123	Hierarchical crystalline structures induced by temperature profile in HDPE bars during melt penetration process. Chinese Journal of Polymer Science (English Edition), 2016, , 1.	2.0	0
124	Construction of â€œcoreâ€“shellâ€structure for improved thermal conductivity and mechanical properties of polyamide 6 composites. Polymer Bulletin, 2021, 78, 2791-2803.	1.7	0