

Liangbin Li

List of Publications by Year in Descending Order

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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.

247
papers

6,627
citations

45
h-index

68
g-index

250
ext. papers

7,729
ext. citations

4.9
avg, IF

5.99
L-index

#	Paper	IF	Citations
247	Bond Orientation-Assisted Enthalpic Stress in Polymer Glasses: A Simulation Study on Elastic Yielding. <i>Macromolecules</i> , 2022 , 55, 883-896	5.5	0
246	High performance ultra-high molecular weight polyethylene nanocomposite separators with excellent rate capabilities designed for next-generation lithium-ion batteries. <i>Materials Today Physics</i> , 2022 , 23, 100626	8	0
245	Strain-Rate-Dependent Phase Transition Mechanism in Polybutene-1 during Uniaxial Stretching: From Quasi-Static to Dynamic Loading Conditions. <i>Macromolecules</i> , 2022 , 55, 2333-2344	5.5	0
244	A simple method for Ce-Nd separation using nano-NaBiO: Application in the isotopic analysis of U, Sr, Pb, Nd, and Hf in uranium ores.. <i>Talanta</i> , 2022 , 245, 123443	6.2	0
243	Self-adaptive integration of photothermal and radiative cooling for continuous energy harvesting from the sun and outer space.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2120557119	11.5	5
242	Mixed displacement-pressure-phase field framework for finite strain fracture of nearly incompressible hyperelastic materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 394, 114933	5.7	0
241	REVIEW: Current progresses of small-angle neutron scattering on soft-matters investigation 2022 , 100011		1
240	The formation of crystal cross-linked network in sequential biaxial stretching of poly(ethylene terephthalate): The essential role of MD pre-stretch. <i>Polymer Testing</i> , 2021 , 96, 107143	4.5	0
239	Superior lithium battery separator with extraordinary electrochemical performance and thermal stability based on hybrid UHMWPE/SiO ₂ nanocomposites via the scalable biaxial stretching process. <i>Composites Part B: Engineering</i> , 2021 , 211, 108658	10	9
238	Simultaneously Toughening and Stiffening Elastomers with Octuple Hydrogen Bonding. <i>Advanced Materials</i> , 2021 , 33, e2008523	24	19
237	Anomalous thermally expanded polymer networks for flexible perceptual devices. <i>Matter</i> , 2021 , 4, 1832-1862	18.62	2
236	A novel carboxylated polyacrylonitrile nanofibrous membrane with high adsorption capacity for fluoride removal from water. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125113	12.8	13
235	Stretch-induced structural transition of linear low-density polyethylene during uniaxial stretching under different strain rates. <i>Polymer</i> , 2021 , 226, 123795	3.9	6
234	Stretch-induced structural evolution of dichromatic substance with poly (vinyl alcohol) at different concentrations of boric acid: An in-situ synchrotron radiation small- and wide-angle X-ray scattering study. <i>Polymer</i> , 2021 , 212, 123297	3.9	5
233	Stretch-induced structural evolution of pre-oriented isotactic polypropylene films: An in-situ synchrotron radiation SAXS/WAXS study. <i>Polymer</i> , 2021 , 214, 123234	3.9	3
232	Inducing nano-confined crystallization in PLLA and PET by elastic melt stretching. <i>Soft Matter</i> , 2021 , 17, 1457-1462	3.6	3
231	Network structure of swollen iodine-doped poly(vinyl alcohol) amorphous domain as characterized by low field NMR. <i>Soft Matter</i> , 2021 , 17, 8973-8981	3.6	1

230	Thermally stable and high electrochemical performance ultra-high molecular weight polyethylene/poly(4-methyl-1-pentene) blend film used as Li-ion battery separator. <i>Applied Materials Today</i> , 2021 , 24, 101136	6.6	3
229	Abnormal brittle-ductile transition for glassy polymers after free and constrained melt stretching: The role of molecular alignment. <i>Polymer</i> , 2021 , 233, 124199	3.9	0
228	Orientation Birefringence Regulation for the Binary Blend Film of Cellulose Triacetate and Rigid-Rod-Like 5CB Molecules. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 6642-6652	4.3	0
227	Negatively Charged Nanosheets Significantly Enhance the Energy-Storage Capability of Polymer-Based Nanocomposites. <i>Advanced Materials</i> , 2020 , 32, e1907227	24	87
226	In-situ tracking polymer crystallization during film blowing by synchrotron radiation X-ray scattering: The critical role of network. <i>Polymer</i> , 2020 , 198, 122492	3.9	5
225	Numerical calculation of free-energy barriers for entangled polymer nucleation. <i>Journal of Chemical Physics</i> , 2020 , 152, 224904	3.9	4
224	Influence of interchain interactions on the tumbling of chains in a polymer melt during shear flow. <i>Journal of Rheology</i> , 2020 , 64, 941-954	4.1	5
223	Bifurcation criterion and the origin of limit crack velocity in dynamic brittle fracture. <i>International Journal of Fracture</i> , 2020 , 224, 117-131	2.3	2
222	Programming colloidal bonding using DNA strand-displacement circuitry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 5617-5623	11.5	9
221	Trade-off of mechanical and electrical properties in stretchable P3HT/PDMS blending films driven by interpenetrating double networks formation. <i>AIP Advances</i> , 2020 , 10, 035020	1.5	2
220	Molecular and thermodynamics descriptions of flow-induced crystallization in semi-crystalline polymers. <i>Journal of Applied Physics</i> , 2020 , 127, 241101	2.5	4
219	Elucidation of the relationships of structure-process-property for different ethylene/olefin copolymers during film blowing: An in-situ synchrotron radiation X-ray scattering study. <i>Polymer Testing</i> , 2020 , 85, 106439	4.5	11
218	Stretch-Induced Intermediate Structures and Crystallization of Poly(dimethylsiloxane): The Effect of Filler Content. <i>Macromolecules</i> , 2020 , 53, 719-730	5.5	10
217	Recent advances in post-stretching processing of polymer films with in situ synchrotron radiation X-ray scattering. <i>Soft Matter</i> , 2020 , 16, 3599-3612	3.6	14
216	Microstructural Origin of the Double Yield Points of the Metallocene Linear Low-Density Polyethylene (mLLDPE) Precursor Film under Uniaxial Tensile Deformation. <i>Polymers</i> , 2020 , 13,	4.5	1
215	The recovery of nano-sized carbon black filler structure and its contribution to stress recovery in rubber nanocomposites. <i>Nanoscale</i> , 2020 , 12, 24527-24542	7.7	4
214	Reconstructing the mechanical response of polybutadiene rubber based on micro-structural evolution in strain-temperature space: entropic elasticity and strain-induced crystallization as the bridges. <i>Soft Matter</i> , 2020 , 16, 447-455	3.6	9
213	Understanding the brittle-ductile transition of glass polymer on mesoscopic scale by in-situ small angle X-ray scattering. <i>Polymer</i> , 2020 , 209, 122985	3.9	6

212	Revealing the detailed structure in flow-induced crystallization of semicrystalline polymers. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 25206-25214	3.6	1
211	A dynamic phase field model with no attenuation of wave speed for rapid fracture instability in hyperelastic materials. <i>International Journal of Solids and Structures</i> , 2020 , 202, 685-698	3.1	5
210	Stretch-Induced Reverse Brill Transition in Polyamide 46. <i>Macromolecules</i> , 2020 , 53, 11153-11165	5.5	8
209	An adaptive edge-based smoothed finite element method (ES-FEM) for phase-field modeling of fractures at large deformations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 372, 113376	5.7	9
208	Manipulation of Chain Entanglement and Crystal Networks of Biodegradable Poly(butylene adipate--butylene terephthalate) During Film Blowing through the Addition of a Chain Extender: An In Situ Synchrotron Radiation X-ray Scattering Study. <i>Biomacromolecules</i> , 2019 , 20, 3895-3907	6.9	8
207	In situ characterization of strain-induced crystallization of natural rubber by synchrotron radiation wide-angle X-ray diffraction: construction of a crystal network at low temperatures. <i>Soft Matter</i> , 2019 , 15, 734-743	3.6	17
206	Deformation mechanism of hard elastic polyethylene film during uniaxial stretching: Effect of stretching speed. <i>Polymer</i> , 2019 , 178, 121579	3.9	16
205	Stretch-induced structural evolution of poly (vinyl alcohol) at different concentrations of boric acid: An in-situ synchrotron radiation small- and wide- angle X-ray scattering study. <i>Polymer Testing</i> , 2019 , 77, 105913	4.5	4
204	Synergistic and Competitive Effects of Temperature and Flow on Crystallization of Polyethylene during Film Blowing. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1590-1603	4.3	14
203	The Tough Journey of Polymer Crystallization: Battling with Chain Flexibility and Connectivity. <i>Macromolecules</i> , 2019 , 52, 3575-3591	5.5	88
202	Hierarchical structure manipulation of UHMWPE/HDPE fibers through in-reactor blending with Cr/V bimetallic catalysts. <i>Composites Science and Technology</i> , 2019 , 175, 46-54	8.6	7
201	Structural origin for the strain rate dependence of mechanical response of fluoroelastomer F2314. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 607-620	2.6	8
200	Morphology diagram of PE gel films in wide range temperature-strain space: An in situ SAXS and WAXS study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 748-757	2.6	3
199	Ultrastiff and Tough Supramolecular Hydrogels with a Dense and Robust Hydrogen Bond Network. <i>Chemistry of Materials</i> , 2019 , 31, 1430-1440	9.6	126
198	A hybrid adaptive finite element phase-field method for quasi-static and dynamic brittle fracture. <i>International Journal for Numerical Methods in Engineering</i> , 2019 , 120, 1108-1125	2.4	24
197	Collapse Transition-Assisted Crystallization in P3HT Solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1105-1114	2.6	1
196	Precursor assisted crystallization in cross-linked isotactic polypropylene. <i>Polymer</i> , 2019 , 180, 121674	3.9	5
195	Stretching and orientation dynamics of linear and comb polymers at shear stress overshoot. <i>Journal of Rheology</i> , 2019 , 63, 939-946	4.1	1

194	Investigation on phase transition from flow-induced oriented form II to I in isotactic polybutene-1 with in-situ microbeam X-ray diffraction technique. <i>Polymer</i> , 2019 , 179, 121719	3.9	16
193	Structural evolution of cellulose triacetate film during stretching deformation: An in-situ synchrotron radiation wide-angle X-Ray scattering study. <i>Polymer</i> , 2019 , 182, 121815	3.9	4
192	Structural evolution of hard-elastic polyethylene cast film in temperature-strain space: An in-situ SAXS and WAXS study. <i>Polymer</i> , 2019 , 184, 121930	3.9	9
191	Preparation of Polyethylene and Ethylene/Methacrylic Acid Copolymer Blend Films with Tunable Surface Properties through Manipulating Processing Parameters during Film Blowing. <i>Polymers</i> , 2019 , 11,	4.5	9
190	Frustrating Strain-Induced Crystallization of Natural Rubber with Biaxial Stretch. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47535-47544	9.5	20
189	The effect of water absorption on stretch-induced crystallization of poly(ethylene terephthalate): An in-situ synchrotron radiation wide angle X-ray scattering study. <i>Polymer</i> , 2019 , 162, 91-99	3.9	17
188	Multiscale characterization of semicrystalline polymeric materials by synchrotron radiation X-ray and neutron scattering. <i>Polymer Crystallization</i> , 2019 , 2, 10043	0.9	10
187	Biaxial stretch-induced structural evolution of polyethylene gel films: Crystal melting recrystallization and tilting. <i>Polymer</i> , 2019 , 164, 59-66	3.9	10
186	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, e10038	0.9	9
185	Understanding structure-mechanics relationship of high density polyethylene based on stress induced lattice distortion. <i>Polymer</i> , 2019 , 160, 170-180	3.9	21
184	Ultrasensitive and Stable Au Dimer-Based Colorimetric Sensors Using the Dynamically Tunable Gap-Dependent Plasmonic Coupling Optical Properties. <i>Advanced Functional Materials</i> , 2018 , 28, 1707392	15.6	38
183	Stretch-induced complexation reaction between poly(vinyl alcohol) and iodine: an in situ synchrotron radiation small- and wide-angle X-ray scattering study. <i>Soft Matter</i> , 2018 , 14, 2535-2546	3.6	19
182	Structure evolution of polyethylene-plasticizer film at industrially relevant conditions studied by in-situ X-ray scattering: The role of crystal stress. <i>European Polymer Journal</i> , 2018 , 101, 358-367	5.2	12
181	A portable extruder for in situ wide angle x-ray scattering study on multi-dimensional flow field induced crystallization of polymer. <i>Review of Scientific Instruments</i> , 2018 , 89, 025101	1.7	6
180	Multiscale and Multistep Ordering of Flow-Induced Nucleation of Polymers. <i>Chemical Reviews</i> , 2018 , 118, 1840-1886	68.1	153
179	Structural Evolution of UHMWPE Fibers during Prestretching Far and Near Melting Temperature: An In Situ Synchrotron Radiation Small- and Wide-Angle X-Ray Scattering Study. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700493	3.9	8
178	Structural Evolution of Hard-Elastic Isotactic Polypropylene Film during Uniaxial Tensile Deformation: The Effect of Temperature. <i>Macromolecules</i> , 2018 , 51, 2690-2705	5.5	55
177	Stretch-induced structural evolution of poly (vinyl alcohol) film in water at different temperatures: An in-situ synchrotron radiation small- and wide-angle X-ray scattering study. <i>Polymer</i> , 2018 , 142, 233-243	3.9	21

176	Time-resolved orientation detection system with quantum cascade lasers. <i>Review of Scientific Instruments</i> , 2018 , 89, 073101	1.7	1
175	Robust Anisotropic Cellulose Hydrogels Fabricated via Strong Self-aggregation Forces for Cardiomyocytes Unidirectional Growth. <i>Chemistry of Materials</i> , 2018 , 30, 5175-5183	9.6	94
174	Fabrication of polyethylene nanofibrous membranes by biaxial stretching. <i>Materials Today Communications</i> , 2018 , 17, 24-30	2.5	19
173	Stress-induced microphase separation of interlamellar amorphous phase in hard-elastic isotactic polypropylene film. <i>Polymer</i> , 2018 , 148, 79-92	3.9	24
172	Shear-induced precursors in polyethylene: An in-situ synchrotron radiation scanning X-ray microdiffraction study. <i>Polymer</i> , 2018 , 135, 61-68	3.9	10
171	A few rediscovered and challenging topics in polymer crystals and crystallization. <i>Polymer Crystallization</i> , 2018 , 1, e10053	0.9	11
170	Flow-induced density fluctuation assisted nucleation in polyethylene. <i>Journal of Chemical Physics</i> , 2018 , 149, 224901	3.9	15
169	Stretch-Induced Melting and Recrystallization of Polyethylene-Plasticizer Film Studied by In Situ X-Ray Scattering: A Thermodynamic Point of View. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 1521-1528	2.6	1
168	A real-time WAXS and SAXS study of the structural evolution of LLDPE bubble. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 1404-1412	2.6	10
167	Counterion-Induced Nanosheet-to-Nanofilament Transition of Lyotropic Bent-Core Liquid Crystals. <i>Langmuir</i> , 2018 , 34, 13006-13013	4	0
166	Stretch-Induced Crystallization and Phase Transitions of Poly(dimethylsiloxane) at Low Temperatures: An in Situ Synchrotron Radiation Wide-Angle X-ray Scattering Study. <i>Macromolecules</i> , 2018 , 51, 8424-8434	5.5	13
165	Microbuckling: A possible mechanism to trigger nonlinear instability of semicrystalline polymer. <i>Polymer</i> , 2018 , 154, 48-54	3.9	8
164	From Molecular Entanglement Network to Crystal-Cross-Linked Network and Crystal Scaffold during Film Blowing of Polyethylene: An in Situ Synchrotron Radiation Small- and Wide-Angle X-ray Scattering Study. <i>Macromolecules</i> , 2018 , 51, 4350-4362	5.5	27
163	Stretch-Induced Coil-Helix Transition in Isotactic Polypropylene: A Molecular Dynamics Simulation. <i>Macromolecules</i> , 2018 , 51, 3994-4002	5.5	16
162	Coupling of Multiscale Orderings during Flow-Induced Crystallization of Isotactic Polypropylene. <i>Macromolecules</i> , 2017 , 50, 1991-1997	5.5	30
161	Lyotropic meso-phase behavior of supra-molecular nanotubes with helical charge distribution. <i>Soft Matter</i> , 2017 , 13, 3475-3479	3.6	1
160	Structural origin of fast yielding-strain hardening transition in fluoroelastomer F2314. <i>Polymer</i> , 2017 , 119, 107-111	3.9	7
159	Structural and morphological transitions in extension-induced crystallization of poly(1-butene) melt. <i>Soft Matter</i> , 2017 , 13, 3639-3648	3.6	26

158	Deformation mechanism of iPP under uniaxial stretching over a wide temperature range: An in-situ synchrotron radiation SAXS/WAXS study. <i>Polymer</i> , 2017 , 118, 12-21	3.9	44
157	Surface enhanced Raman scattering properties of dynamically tunable nanogaps between Au nanoparticles self-assembled on hydrogel microspheres controlled by pH. <i>Journal of Colloid and Interface Science</i> , 2017 , 505, 467-475	9.3	18
156	Window of Pressure and Flow To Produce Crystals in Isotactic Polypropylene Mixed with Nucleating Agent. <i>Macromolecules</i> , 2017 , 50, 4807-4816	5.5	32
155	Filler-induced heterogeneous distribution of stretch-induced crystallization in natural rubber: An in-situ synchrotron-radiation micro-focused scanning X-ray diffraction study. <i>Polymer</i> , 2017 , 115, 217-223	3.9	4
154	Resonant absorption induced fast melting studied with mid-IR QCLs. <i>Review of Scientific Instruments</i> , 2017 , 88, 023108	1.7	2
153	Coupling between intra- and inter-chain orderings in flow-induced crystallization of polyethylene: A non-equilibrium molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2017 , 146, 014901	3.9	15
152	A Criterion for Flow-Induced Oriented Crystals in Isotactic Polypropylene under Pressure. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700407	4.8	7
151	Deformation of Ultrahigh Molecular Weight Polyethylene Precursor Fiber: Crystal Slip with or without Melting. <i>Macromolecules</i> , 2017 , 50, 6385-6395	5.5	42
150	One pot synthesis of bimodal UHMWPE/HDPE in-reactor blends with Cr/V bimetallic catalysts. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 3404-3412	2.5	7
149	Visualizing the Toughening Mechanism of Nanofiller with 3D X-ray Nano-CT: Stress-Induced Phase Separation of Silica Nanofiller and Silicone Polymer Double Networks. <i>Macromolecules</i> , 2017 , 50, 7249-7257	5.5	30
148	Stabilization Mechanism of Micropore in High-Density Polyethylene: A Comparison between Thermal and Mechanical Pathways. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700178	3.9	9
147	Strong Memory Effect of Metastable Form Trans-1,4-Polyisoprene above Equilibrium Melting Temperature. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700235	2.6	13
146	Extension decelerated crystallization in irradiated isotactic polypropylene: The role of asymmetric chain relaxation. <i>Polymer</i> , 2017 , 131, 68-72	3.9	5
145	Modification of UHMWPE porous fibers by acrylic acid and its adsorption kinetics for Cu ²⁺ removal. <i>Polymer Bulletin</i> , 2017 , 74, 3855-3870	2.4	2
144	Stress memory materials and their fundamental platform. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 503-511	5.1	15
143	Mechanical energy and thermal effect controlled micropore nucleation and growth mechanism in oriented high density polyethylene. <i>Polymer</i> , 2017 , 133, 240-249	3.9	10
142	Local structure order assisted two-step crystal nucleation in polyethylene. <i>Physical Review Materials</i> , 2017 , 1,	3.2	21
141	Deformation Drives Alignment of Nanofibers in Framework for Inducing Anisotropic Cellulose Hydrogels with High Toughness. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43154-43162	9.5	65

140	Biaxial stretch-induced crystallization of poly(ethylene terephthalate) above glass transition temperature: The necessary of chain mobility. <i>Polymer</i> , 2016 , 101, 15-23	3.9	33
139	From the Volume-Filling Effect to the Stress-Bearing Network: The Reinforcement Mechanisms of Carbon Black Filler in Natural Rubber. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 1390-1401	3.9	18
138	Chain Deformation on the Formation of Shish Nuclei under Extension Flow: An in Situ SANS and SAXS Study. <i>Macromolecules</i> , 2016 , 49, 9080-9088	5.5	29
137	Investigation of the Hydrolysis of Perovskite Organometallic Halide CH ₃ NH ₃ PbI ₃ in Humidity Environment. <i>Scientific Reports</i> , 2016 , 6, 21976	4.9	90
136	Strain and temperature dependence of deformation mechanism of lamellar stacks in HDPE and its guidance on microporous membrane preparation. <i>Polymer</i> , 2016 , 105, 264-275	3.9	29
135	The non-equilibrium phase diagrams of flow-induced crystallization and melting of polyethylene. <i>Scientific Reports</i> , 2016 , 6, 32968	4.9	45
134	The effect of bound rubber on vulcanization kinetics in silica filled silicone rubber. <i>RSC Advances</i> , 2016 , 6, 101470-101476	3.7	13
133	Opposite counter-ion effects on condensed bundles of highly charged supramolecular nanotubes in water. <i>Soft Matter</i> , 2016 , 12, 6285-92	3.6	4
132	Flow-Induced Crystallization of Polymers: Molecular and Thermodynamic Considerations. <i>Macromolecules</i> , 2016 , 49, 1505-1517	5.5	137
131	Mixing Assisted Direct Formation of Isotactic Poly(1-butene) Form I? Crystals from Blend Melt of Isotactic Poly(1-butene)/Polypropylene. <i>Macromolecules</i> , 2016 , 49, 1761-1769	5.5	39
130	Molybdenum sulfide/graphene-carbon nanotube nanocomposite material for electrocatalytic applications in hydrogen evolution reactions. <i>Nano Research</i> , 2016 , 9, 837-848	10	79
129	Polymer-Ion Interaction Weakens the Strain-Rate Dependence of Extension-Induced Crystallization for Poly(ethylene oxide). <i>Langmuir</i> , 2016 , 32, 2117-26	4	4
128	Influence of thermal history on crystalline morphologies of isotactic polypropylene in its miscible blends with polybutene-1. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	1
127	Preparation of Highly Oriented Polyethylene Precursor Film with Fibril and Its Influence on Microporous Membrane Formation. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 974-986	2.6	12
126	Entropy-Driven Segregation and Its Competition with Crystal Nucleation in the Binary Blends of Stretched and Free Guest Polymers. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12988-12992	3.4	13
125	Influence of material characteristics on the structure and properties of high-density polyethylene microporous membranes. <i>RSC Advances</i> , 2016 , 6, 62769-62777	3.7	5
124	Extensional Flow-Induced Dynamic Phase Transitions in Isotactic Polypropylene. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1441-5	4.8	31
123	A recyclable disulfide bond chemically cross-linking, high toughness, high conductivity ion gel based on re-shaping and restructuring in the gel state. <i>Polymer Chemistry</i> , 2015 , 6, 4067-4070	4.9	12

122	Effect of pressure on the structure and properties of polymeric gel based on polymer PVdF-HFP and ionic liquid [BMIM][BF ₄]. <i>Colloid and Polymer Science</i> , 2015 , 293, 925-932	2.4	3
121	In situ synchrotron X-ray diffraction analysis of deformation behaviour in Ti-Ni-based thin films. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 34-41	2.4	
120	The thermodynamic properties of flow-induced precursor of polyethylene. <i>Science China Chemistry</i> , 2015 , 58, 1570-1578	7.9	15
119	In situ study of the annealing process of a polyethylene cast film with a row-nucleated crystalline structure by SAXS. <i>RSC Advances</i> , 2015 , 5, 27722-27734	3.7	11
118	Unveiling Reinforcement and Toughening Mechanism of Filler Network in Natural Rubber with Synchrotron Radiation X-ray Nano-Computed Tomography. <i>Macromolecules</i> , 2015 , 48, 7923-7928	5.5	33
117	Kinetic Process of Shish Formation: From Stretched Network to Stabilized Nuclei. <i>Macromolecules</i> , 2015 , 48, 5276-5285	5.5	46
116	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
115	Two-stage drawing process to prepare high-strength and porous ultrahigh-molecular-weight polyethylene fibers: Cold drawing and hot drawing. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a ^{2.9}		10
114	Synthesis of recyclable, chemically cross-linked, high toughness, high conductivity ion gels by sequential triblock copolymer self-assembly and disulfide bond cross-linking. <i>RSC Advances</i> , 2015 , 5, 22638-22646	3.7	16
113	Investigation on the recovery performance of olefin block copolymer/hexadecane form stable phase change materials with shape memory properties. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 132, 632-639	6.4	30
112	Counter-ion specificity explored in abnormal expansion of supra-molecular aggregates in aqueous solution of alkaline metal salts. <i>Journal of Chemical Physics</i> , 2015 , 143, 114901	3.9	4
111	Robust Ordered Bundles of Porous Helical Nanotubes Assembled from Fully Rigid Ionic Benzene-1,3,5-tricarboxamides. <i>Chemistry - A European Journal</i> , 2015 , 21, 15388-94	4.8	4
110	Unexpected shear dependence of pressure-induced β crystals in isotactic polypropylene. <i>Polymer Chemistry</i> , 2015 , 6, 4588-4596	4.9	23
109	Inducing uniform single-crystal like orientation in natural rubber with constrained uniaxial stretch. <i>Soft Matter</i> , 2015 , 11, 5044-52	3.6	15
108	A semi-quantitative deformation model for pore formation in isotactic polypropylene microporous membrane. <i>Polymer</i> , 2015 , 80, 214-227	3.9	54
107	Mixed-phase PdPt bimetallic alloy on graphene oxide with high activity for electrocatalytic applications. <i>Journal of Power Sources</i> , 2015 , 282, 520-528	8.9	50
106	Nonequilibrium Nature of Flow-Induced Nucleation in Isotactic Polypropylene. <i>Macromolecules</i> , 2015 , 48, 694-699	5.5	49
105	Metallogels self-assembled from linear rod-like platinum complexes: influence of the linkage. <i>Chemistry - A European Journal</i> , 2015 , 21, 4213-7	4.8	15

104	Toughening mystery of natural rubber deciphered by double network incorporating hierarchical structures. <i>Scientific Reports</i> , 2014 , 4, 7502	4.9	21
103	A novel way to monitor the sequential destruction of parent-daughter crystals in isotactic polypropylene under uniaxial tension. <i>Journal of Materials Science</i> , 2014 , 49, 3016-3024	4.3	14
102	In-situ FTIR imaging on the plastic deformation of iPP thin films. <i>Polymer</i> , 2014 , 55, 1103-1107	3.9	10
101	Imaging the strain induced carbon black filler network structure breakage with nano X-ray tomography. <i>RSC Advances</i> , 2014 , 4, 54500-54505	3.7	13
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