

# Yuanfei Lin

## List of Publications by Year in descending order

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39  
papers

927  
citations

430874

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477307

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577  
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#	ARTICLE	IF	CITATIONS
1	Structural Evolution of Hard-Elastic Isotactic Polypropylene Film during Uniaxial Tensile Deformation: The Effect of Temperature. <i>Macromolecules</i> , 2018, 51, 2690-2705.	4.8	82
2	A semi-quantitative deformation model for pore formation in isotactic polypropylene microporous membrane. <i>Polymer</i> , 2015, 80, 214-227.	3.8	68
3	Deformation of Ultrahigh Molecular Weight Polyethylene Precursor Fiber: Crystal Slip with or without Melting. <i>Macromolecules</i> , 2017, 50, 6385-6395.	4.8	57
4	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.	3.8	53
5	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.	3.8	38
6	Biaxial stretch-induced crystallization of poly(ethylene terephthalate) above glass transition temperature: The necessary of chain mobility. <i>Polymer</i> , 2016, 101, 15-23.	3.8	37
7	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.	3.8	34
8	Stress-induced microphase separation of interlamellar amorphous phase in hard-elastic isotactic polypropylene film. <i>Polymer</i> , 2018, 148, 79-92.	3.8	31
9	Uniaxially stretched polyethylene/boron nitride nanocomposite films with metal-like thermal conductivity. <i>Composites Science and Technology</i> , 2020, 196, 108154.	7.8	31
10	Stretch-induced complexation reaction between poly(vinyl alcohol) and iodine: an <i>in situ</i> synchrotron radiation small- and wide-angle X-ray scattering study. <i>Soft Matter</i> , 2018, 14, 2535-2546.	2.7	29
11	Recent advances in post-stretching processing of polymer films with <i>in situ</i> synchrotron radiation X-ray scattering. <i>Soft Matter</i> , 2020, 16, 3599-3612.	2.7	29
12	A simple constrained uniaxial tensile apparatus for in situ investigation of film stretching processing. <i>Review of Scientific Instruments</i> , 2013, 84, 115104.	1.3	28
13	<i>In situ</i> 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.	2.7	27
14	A Universal equipment for biaxial stretching of polymer films. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015, 33, 754-762.	3.8	26
15	Stretch-Induced Crystallization and Phase Transitions of Poly(dimethylsiloxane) at Low Temperatures: An <i>In Situ</i> Synchrotron Radiation Wide-Angle X-ray Scattering Study. <i>Macromolecules</i> , 2018, 51, 8424-8434.	4.8	25
16	Deformation mechanism of hard elastic polyethylene film during uniaxial stretching: Effect of stretching speed. <i>Polymer</i> , 2019, 178, 121579.	3.8	23
17	Stretch-Induced Intermediate Structures and Crystallization of Poly(dimethylsiloxane): The Effect of Filler Content. <i>Macromolecules</i> , 2020, 53, 719-730.	4.8	23
18	Stretch-Induced Reverse Brill Transition in Polyamide 46. <i>Macromolecules</i> , 2020, 53, 11153-11165.	4.8	21

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19	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.	3.6	18
20	Constrained and free uniaxial stretching induced crystallization of polyethylene film: A comparative study. <i>Polymer Testing</i> , 2014, 36, 110-118.	4.8	17
21	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.	5.4	17
22	Stretch-induced structural evolution of pre-oriented isotactic polypropylene films: An in-situ synchrotron radiation SAXS/WAXS study. <i>Polymer</i> , 2021, 214, 123234.	3.8	17
23	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.	2.7	16
24	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.	3.8	15
25	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.	3.8	15
26	Stretch-induced structural transition of linear low-density polyethylene during uniaxial stretching under different strain rates. <i>Polymer</i> , 2021, 226, 123795.	3.8	15
27	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.	5.6	14
28	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.	3.6	13
29	Microbuckling: A possible mechanism to trigger nonlinear instability of semicrystalline polymer. <i>Polymer</i> , 2018, 154, 48-54.	3.8	13
30	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.	2.2	12
31	Improving the softness of BOPP films: From laboratory investigation to industrial processing. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 1122-1131.	3.8	12
32	Mechanical energy and thermal effect controlled micropore nucleation and growth mechanism in oriented high density polyethylene. <i>Polymer</i> , 2017, 133, 240-249.	3.8	12
33	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.	3.8	12
34	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.	2.1	11
35	Stabilization Mechanism of Micropore in High-Density Polyethylene: A Comparison between Thermal and Mechanical Pathways. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700178.	3.6	10
36	Strain-induced crystal growth and molecular orientation of poly(isobutylene-isoprene) rubber at low temperatures. <i>Soft Matter</i> , 2019, 15, 4363-4370.	2.7	10

#	ARTICLE	IF	CITATIONS
37	Influence of material characteristics on the structure and properties of high-density polyethylene microporous membranes. RSC Advances, 2016, 6, 62769-62777.	3.6	7
38	Precursor assisted crystallization in cross-linked isotactic polypropylene. Polymer, 2019, 180, 121674.	3.8	6
39	Microstructural Origin of the Double Yield Points of the Metallocene Linear Low-Density Polyethylene (mLLDPE) Precursor Film under Uniaxial Tensile Deformation. Polymers, 2021, 13, 126.	4.5	3