

Wei Yu

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.

123
papers

2,317
citations

25
h-index

42
g-index

130
ext. papers

2,776
ext. citations

4.1
avg, IF

5.47
L-index

#	Paper	IF	Citations
123	Mechanically interlocked networks cross-linked by a molecular necklace.. <i>Nature Communications</i> , 2022 , 13, 1393	17.4	3
122	Molecular Dynamics of Azobenzene Polymer with Photoreversible Glass Transition. <i>Macromolecules</i> , 2022 , 55, 3711-3722	5.5	1
121	Biomimetic Impact Protective Supramolecular Polymeric Materials Enabled by Quadruple H-Bonding. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1162-1170	16.4	24
120	Weak Shear-Induced Slowdown in Crystallization of Less-Entangled Poly(ϵ -caprolactone). <i>Macromolecules</i> , 2021 , 54, 3347-3357	5.5	2
119	An orientation-stretch coupled model for entangled comb polymers. <i>Journal of Rheology</i> , 2021 , 65, 113-128	12.8	0
118	Symmetry breakdown in the sol-gel transition of a Guar gum transient physical network. <i>Carbohydrate Polymers</i> , 2021 , 258, 117689	10.3	0
117	Recyclable ethylene-vinyl acetate copolymer vitrimer foams. <i>Polymer</i> , 2021 , 222, 123662	3.9	9
116	Shear-induced breakdown and agglomeration in nanoparticles filled polymer: The shift of phase boundary and kinetics. <i>Journal of Rheology</i> , 2021 , 65, 291-309	4.1	4
115	Nonequilibrium Structure Diagram of Pendular Suspensions under Large-Amplitude Oscillatory Shear. <i>Langmuir</i> , 2021 , 37, 6208-6218	4	3
114	Decoupled Polymer Dynamics in Weakly Attractive Poly(methyl methacrylate)/Silica Nanocomposites. <i>Macromolecules</i> , 2021 , 54, 5484-5497	5.5	5
113	Molecular constitutive equation for unentangled branch copolymers. <i>Rheologica Acta</i> , 2021 , 60, 439-455	2.3	1
112	Muscle-Mimetic Synergistic Covalent and Supramolecular Polymers: Phototriggered Formation Leads to Mechanical Performance Boost. <i>Journal of the American Chemical Society</i> , 2021 , 143, 902-911	16.4	26
111	Decoupling hydrodynamic and entanglement effects on the modulus reinforcement of grafted silica filled nanocomposites through Thermal and rheological features. <i>Polymer</i> , 2021 , 213, 123323	3.9	5
110	Mechanism of Mechanical Reinforcement for Weakly Attractive Nanocomposites in Glassy and Rubbery States. <i>Macromolecules</i> , 2021 , 54, 824-834	5.5	9
109	Modeling of nonlinear extensional and shear rheology of low-viscosity polymer melts. <i>Polymer Engineering and Science</i> , 2021 , 61, 1077-1086	2.3	3
108	Functionalized Graphene Oxide-Reinforced Chitosan Hydrogel as Biomimetic Dressing for Wound Healing. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000432	5.5	4
107	Characteristic Rheological Behaviors in Startup Shear of Entangled Polymer Melts. <i>Nihon Reoroji Gakkaishi</i> , 2021 , 49, 1-5	0.8	3

106	Vitrimer bead foams: Cell density control by cell splitting in weld-compression molding. <i>Polymer</i> , 2021 , 232, 124159	3.9	2
105	A biomimetic skin-like sensor with multiple sensory capabilities based on hybrid ionogel. <i>Sensors and Actuators A: Physical</i> , 2021 , 330, 112855	3.9	3
104	Wall effect on the rheology of short-fiber suspensions under shear. <i>Journal of Rheology</i> , 2021 , 65, 1169-1185	4.1	2
103	Mechanically Interlocked Vitrimers.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	8
102	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. <i>Angewandte Chemie</i> , 2020 , 132, 12237-12244	3.6	5
101	Shear-induced crystallization of olefin multiblock copolymers: Role of mesophase separation and hard-block content. <i>Polymer</i> , 2020 , 198, 122535	3.9	1
100	Highly Stretchable and Self-Healing Strain Sensor Based on Gellan Gum Hybrid Hydrogel for Human Motion Monitoring. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1325-1334	4.3	20
99	Dielectric Relaxation of Type-A Rouse Chains Undergoing Reversible End-Adsorption and Desorption. <i>Nihon Reoroji Gakkaishi</i> , 2020 , 48, 27-35	0.8	
98	On-demand Direct Design of Polymeric Thermal Actuator by Machine Learning Algorithm. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 908-914	3.5	1
97	Viscoelastic characterization of compatibilized polymer blends 2020 , 435-452		1
96	Horizontal extensional rheometry (HER) for low viscosity polymer melts. <i>Journal of Rheology</i> , 2020 , 64, 177-190	4.1	5
95	Simultaneously improved strength and toughness in Carrageenan/polyacrylamide double network hydrogel via synergistic interaction. <i>Carbohydrate Polymers</i> , 2020 , 230, 115596	10.3	14
94	A Self-Cross-Linking Supramolecular Polymer Network Enabled by Crown-Ether-Based Molecular Recognition. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2051-2058	16.4	58
93	Linear and nonlinear rheology of oil in liquid crystal emulsions. <i>Rheologica Acta</i> , 2020 , 59, 783-795	2.3	3
92	Bioinspired Anisotropic Chitosan Hybrid Hydrogel.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6959-6966	4.1	3
91	Correlation between linear and nonlinear material functions under large amplitude oscillatory shear. <i>Physics of Fluids</i> , 2020 , 32, 093105	4.4	4
90	Role of Chain Dynamics in the Melt Memory Effect of Crystallization. <i>Macromolecules</i> , 2020 , 53, 7887-7898	3.8	9
89	Self-Contained Focus-Tunable Lenses Based on Transparent and Conductive Gels. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000393	3.9	3

88	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12139-12146	16.4	30
87	Agglomeration of Crystals during Crystallization of Semicrystalline Polymers: A Suspension-Based Rheological Study. <i>Macromolecules</i> , 2019 , 52, 1042-1054	5.5	8
86	A New Solid-like State for Liquid/Liquid/Particle Mixtures with Bicontinuous Morphology of Concentrated Emulsion and Concentrated Suspension. <i>Langmuir</i> , 2019 , 35, 9529-9537	4	2
85	Key factors in mechanical reinforcement by double percolation network: Particle migration and shear stability of filler network. <i>Polymer</i> , 2019 , 182, 121820	3.9	4
84	Slow Linear Viscoelastic Relaxation of Polymer Nanocomposites: Contribution from Confined Diffusion of Nanoparticles. <i>Macromolecules</i> , 2019 , 52, 9094-9104	5.5	15
83	Stability of flow-induced precursors in poly-1-butene and copolymer of 1-butene and ethylene. <i>Journal of Rheology</i> , 2018 , 62, 725-737	4.1	10
82	Abnormal crystallization behavior of high impact polypropylene under shear. <i>Polymer</i> , 2018 , 136, 17-26	3.9	4
81	Influence of Phase Separation on Performance of Graft Acrylic Pressure-Sensitive Adhesives with Various Copolyester Side Chains. <i>ACS Omega</i> , 2018 , 3, 6945-6954	3.9	11
80	Mechanical reinforcement in poly(propylene carbonate) nanocomposites using double percolation networks by dual volume exclusions. <i>Composites Science and Technology</i> , 2018 , 167, 364-370	8.6	16
79	Control of the dispersed-to-continuous transition in polymer blends by viscoelastic asymmetry. <i>Polymer</i> , 2018 , 134, 254-262	3.9	21
78	Stress bifurcation in large amplitude oscillatory shear of yield stress fluids. <i>Journal of Rheology</i> , 2018 , 62, 89-106	4.1	12
77	Simultaneous Slowdown of Segmental and Terminal Relaxation of Both Components in Dynamically Asymmetric Poly(ϵ -caprolactone)/Poly(styrene-co-acrylonitrile) Blends. <i>Macromolecules</i> , 2018 , 51, 7338-7349	5.5	4
76	Onset Reduction and Stabilization of Cocontinuous Morphology in Immiscible Polymer Blends by Snowmanlike Janus Nanoparticles. <i>Langmuir</i> , 2018 , 34, 11092-11100	4	25
75	Cluster size distribution of spherical nanoparticles in polymer nanocomposites: rheological quantification and evidence of phase separation. <i>Soft Matter</i> , 2017 , 13, 4088-4098	3.6	17
74	Dynamic wall slip behavior of yield stress fluids under large amplitude oscillatory shear. <i>Journal of Rheology</i> , 2017 , 61, 627-641	4.1	19
73	Strain accelerated mesophase separation during nonlinear stress relaxation of olefin multiblock copolymer. <i>Polymer</i> , 2017 , 115, 232-238	3.9	3
72	Elongational rheology of glass fiber-filled polymer composites. <i>Rheologica Acta</i> , 2016 , 55, 833-845	2.3	5
71	Structure and linear viscoelasticity of polymer nanocomposites with agglomerated particles. <i>Polymer</i> , 2016 , 98, 190-200	3.9	44

70	Linear and nonlinear viscoelasticity of polymer/silica nanocomposites: an understanding from modulus decomposition. <i>Rheologica Acta</i> , 2016 , 55, 37-50	2.3	26
69	Nonlinear rheological behavior of multiblock copolymers under large amplitude oscillatory shear. <i>Journal of Rheology</i> , 2016 , 60, 1161-1179	4.1	14
68	Two dimensional mechanical correlation analysis on nonlinear oscillatory shear flow of yield stress fluids 2016 , 28, 175-180		3
67	Rheology And Processing of Nanoparticle Filled Polymer Blend Nanocomposites 2016 , 491-550		4
66	Liquid-Solid transition in mesophase separated olefin multiblock copolymers during crystallization. <i>RSC Advances</i> , 2015 , 5, 40607-40619	3.7	7
65	Non-isothermal crystallization behavior of dynamically vulcanized long chain branched polypropylene/ethylene-propylene-diene monomer blends. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	8
64	Liquid-Liquid phase separation and its effect on the crystallization in polylactic acid/poly(ethylene glycol) blends. <i>RSC Advances</i> , 2014 , 4, 55435-55444	3.7	19
63	Comparison of Various Solvents for Poly(Phenylene Sulfide) Microporous Membrane Preparation via Thermally Induced Phase Separation. <i>Journal of Macromolecular Science - Physics</i> , 2014 , 53, 1477-1496	1.4	6
62	Mesophase Separation and Rheology of Olefin Multiblock Copolymers. <i>Macromolecules</i> , 2014 , 47, 807-820	3.5	42
61	Selectivity of shear flow on chains for the degradation reaction of melt polyolefin elastomer with dicumyl peroxide. <i>Colloid and Polymer Science</i> , 2014 , 292, 3261-3269	2.4	
60	Study on the Thermal Degradation Kinetics of Biodegradable Poly(propylene carbonate) during Melt Processing by Population Balance Model and Rheology. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18411-18419	3.9	13
59	The preparation and crystallization of long chain branching polylactide made by melt radicals reaction. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 1959-1970	2.9	55
58	A geometric average interpretation on the nonlinear oscillatory shear. <i>Journal of Rheology</i> , 2013 , 57, 1147-1175	4.1	13
57	Solvents effects in the formation and viscoelasticity of DBS organogels. <i>Soft Matter</i> , 2013 , 9, 864-874	3.6	59
56	Influence of catalyst on transesterification between poly(lactic acid) and polycarbonate under flow field. <i>Polymer</i> , 2013 , 54, 310-319	3.9	38
55	Effect of thermally reduced graphite oxide (TrGO) on the polymerization kinetics of poly(butylene terephthalate) (pCBT)/TrGO nanocomposites prepared by in situ ring-opening polymerization of cyclic butylene terephthalate. <i>Polymer</i> , 2013 , 54, 1603-1611	3.9	31
54	Rheology of miscible polymer blends with viscoelastic asymmetry and concentration fluctuation. <i>Polymer</i> , 2012 , 53, 881-890	3.9	13
53	Phase separation of poly (methyl methacrylate) / poly (styrene-co-acrylonitrile) blends in the presence of silica nanoparticles. <i>Polymer</i> , 2012 , 53, 1772-1782	3.9	60

52	Shear induced phase inversion of dilute smectic liquid crystal/polymer blends. <i>Soft Matter</i> , 2012 , 8, 2992-3006	3.6	10
51	Entropically-driven ring-opening polymerization of cyclic butylene terephthalate: Rheology and kinetics. <i>Polymer Engineering and Science</i> , 2012 , 52, 91-101	2.3	13
50	Modeling of flow-induced crystallization in blends of isotactic polypropylene and poly(ethylene-co-octene). <i>Polymer International</i> , 2012 , 61, 1389-1393	3.3	10
49	Polymer chain topological map as determined by linear viscoelasticity. <i>Journal of Rheology</i> , 2011 , 55, 545-570	4.1	25
48	Dynamics of droplet with viscoelastic interface. <i>Soft Matter</i> , 2011 , 7, 6337	3.6	14
47	Abnormal rotation of a deformed liquid crystal droplet immersed in an isotropic fluid after transient flow. <i>Rheologica Acta</i> , 2011 , 50, 601-611	2.3	
46	Dynamic rheological properties of wood polymer composites: from linear to nonlinear behaviors. <i>Polymer Bulletin</i> , 2011 , 66, 683-701	2.4	21
45	Correlations between local flow mechanism and macroscopic rheology in concentrated suspensions under oscillatory shear. <i>Soft Matter</i> , 2011 , 7, 2433	3.6	16
44	Isothermal Crystallization Kinetics of Highly Filled Wood Plastic Composites: Effect of Wood Particles Content and Compatibilizer. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 2271-2289	1.4	13
43	Linear viscoelasticity of polymer blends with co-continuous morphology. <i>Polymer</i> , 2010 , 51, 2091-2098	3.9	68
42	Long chain branching polylactide: Structures and properties. <i>Polymer</i> , 2010 , 51, 5186-5197	3.9	135
41	Studies on the melt spinning process of noncircular fiber by numerical and experimental methods. <i>Polymer Engineering and Science</i> , 2010 , 50, 1935-1944	2.3	7
40	Liquid-to-solid transition of concentrated suspensions under complex transient shear histories. <i>Physical Review E</i> , 2009 , 80, 061404	2.4	3
39	Control on the topological structure of polyolefin elastomer by reactive processing. <i>Polymer</i> , 2009 , 50, 547-552	3.9	25
38	General stress decomposition in nonlinear oscillatory shear flow. <i>Journal of Rheology</i> , 2009 , 53, 215-238	4.1	66
37	Quick Profile Die Balancing of Automotive Rubber Seal Extrusion by CAE Technology. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008 , 45, 1028-1036	2.2	6
36	Rheological properties of immiscible polymer blends under parallel superposition shear flow. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 431-440	2.6	16
35	The formation of crystal in long-chain branched polypropylene under supercritical carbon dioxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 441-451	2.6	13

34	The effect of interfacial viscosity on the droplet dynamics under flow field. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 1505-1514	2.6	5
33	A Rheological Model for the Interface of Immiscible Polymer Melt in Blending Process. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 81, 1067-1074	2.3	4
32	Component Chain Dynamics in a Miscible Blend of Low-M Poly(p-t-butyl styrene) and Polyisoprene. <i>Nihon Reoraji Gakkaishi</i> , 2008 , 36, 35-42	0.8	6
31	Computer-Aided Optimization of the Extrusion Process of Automobile Rubber Seal. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007 , 44, 509-516	2.2	5
30	Viscoelastic and Dielectric Behavior of a Polyisoprene/Poly(4-tert-butyl styrene) Miscible Blend. <i>Macromolecules</i> , 2007 , 40, 5389-5399	5.5	27
29	Isothermal cold crystallization kinetics of polylactide/nucleating agents. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 310-317	2.9	153
28	Rheology and relaxation processes in a melting thermotropic liquid-crystalline polymer. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3780-3787	2.9	12
27	Crystallization behaviors of linear and long chain branched polypropylene. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3592-3600	2.9	75
26	Thermal oxidation of metallocene-catalyzed poly(ethylene octene) by a rheological method. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 846-852	2.9	5
25	Coalescence of droplets in viscoelastic matrix with diffuse interface under simple shear flow. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1856-1869	2.6	17
24	Three dimensional simulation of viscoelastic polymer melts flow in a cast film process. <i>Fibers and Polymers</i> , 2007 , 8, 50-59	2	4
23	Investigation of Phase Separation in a Partially Miscible Polymer Blend by Rheology. <i>Journal of Macromolecular Science - Physics</i> , 2007 , 46, 1051-1062	1.4	18
22	A simple constitutive equation for immiscible blends. <i>Journal of Rheology</i> , 2007 , 51, 179-194	4.1	19
21	Phase Behavior and its Viscoelastic Responses of Poly(methyl methacrylate) and Poly(styrene-co-maleic anhydride) Blend Systems. <i>Polymer Bulletin</i> , 2006 , 56, 455-466	2.4	90
20	Selectivity of shear rate on chains in polymer combination reaction. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 839-842	2.9	8
19	Dynamic interfacial tension between a thermotropic liquid-crystalline polymer and a flexible polymer. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3114-3120	2.9	
18	Numerical Simulation of the Melt Spinning Process of Noncircular Fibers Incorporating Surface Tension. <i>Journal of Macromolecular Science - Physics</i> , 2006 , 45, 1099-1108	1.4	3
17	Rheological Characterization of Droplet-Matrix versus Co-Continuous Morphology. <i>Journal of Macromolecular Science - Physics</i> , 2006 , 45, 889-898	1.4	62

16	Crystallization Kinetics of Linear and Long-Chain Branched Polypropylene. <i>Journal of Macromolecular Science - Physics</i> , 2006 , 45, 969-985	1.4	53
15	Three-Dimensional Simulation of the Non-Isothermal Cast Film Process of Polymer Melts. <i>Journal of Polymer Research</i> , 2006 , 13, 433-440	2.7	15
14	Synthesis and properties of polystyrene/clay nanocomposites via in situ intercalative polymerization. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 201-207	2.9	22
13	Dynamic rheology of the immiscible blends of liquid crystalline polymers and flexible chain polymers. <i>Rheologica Acta</i> , 2005 , 45, 105-115	2.3	11
12	Rheology of concentrated blends with immiscible components. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 2534-2540	2.6	9
11	Effect of flocculated structure on rheology of poly(butylene terephthalate)/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 2807-2818	2.6	44
10	Rheokinetics of the cross-linking of melt polyethylene initiated by peroxide. <i>Polymer Engineering and Science</i> , 2005 , 45, 560-567	2.3	19
9	Dynamics and rheology of immiscible polymer-liquid-crystal systems. <i>Journal of Chemical Physics</i> , 2005 , 123, 014906	3.9	5
8	Determination of interfacial tension by the retraction method of highly deformed drop. <i>Rheologica Acta</i> , 2004 , 43, 342	2.3	15
7	Dynamic interfacial properties between a flexible-chain polymer and a thermotropic liquid crystalline polymer investigated by an ellipsoidal drop retraction method. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1404-1410	2.9	8
6	Effects of vibration blending on the subsequent crystallization behavior of polycarbonate/polypropylene blends. <i>Journal of Applied Polymer Science</i> , 2002 , 85, 92-103	2.9	5
5	Modeling of oscillatory shear flow of emulsions under small and large deformation fields. <i>Journal of Rheology</i> , 2002 , 46, 1401-1418	4.1	86
4	Quantitative relationship between rheology and morphology in emulsions. <i>Journal of Rheology</i> , 2002 , 46, 1381-1399	4.1	80
3	A coalescence mechanism for the coarsening behavior of polymer blends during a quiescent annealing process. I. Monodispersed particle system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 2378-2389	2.6	28
2	A coalescence mechanism for the coarsening behavior of polymer blends during a quiescent annealing process. II. Polydispersed particle system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 2390-2399	2.6	12
1	A coalescence mechanism for the coarsening behavior of polymer blends during a quiescent annealing process. I. Monodispersed particle system 2000 , 38, 2378		2