Christopher Macosko

List of Publications by Year
in descending order

200 papers	14,807 citations	20759 60 h-index	19690 117 g-index
205 all docs	205 docs citations	205 times ranked	12277 citing authors

#	Article	IF	Citations
1	Graphene/Polymer Nanocomposites. Macromolecules, 2010, 43, 6515-6530.	2.2	2,979
2	Graphene/Polyurethane Nanocomposites for Improved Gas Barrier and Electrical Conductivity. Chemistry of Materials, 2010, 22, 3441-3450.	3.2	1,242
3	Processing-property relationships of polycarbonate/graphene composites. Polymer, 2009, 50, 3797-3809.	1.8	610
4	Morphology and Properties of Polyester/Exfoliated Graphite Nanocomposites. Macromolecules, 2008, 41, 3317-3327.	2.2	395
5	Combining polyethylene and polypropylene: Enhanced performance with PE/ i PP multiblock polymers. Science, 2017, 355, 814-816.	6.0	393
6	Graphene/polyethylene nanocomposites: Effect of polyethylene functionalization and blending methods. Polymer, 2011, 52, 1837-1846.	1.8	358
7	Epoxy Toughening with Low Graphene Loading. Advanced Functional Materials, 2015, 25, 575-585.	7.8	301
8	Effect of reinforcing fillers on the rheology of polymer melts. Journal of Rheology, 1992, 36, 1165-1182.	1.3	258
9	Strain hardening in polypropylenes and its role in extrusion foaming. Polymer Engineering and Science, 2004, 44, 2090-2100.	1.5	231
10	Reactions at polymerâ€“polymer interfaces for blend compatibilization. Progress in Polymer Science, 2005, 30, 939-947.	11.8	212
11	Slip at polymerâ€“polymer interfaces: Rheological measurements on coextruded multilayers. Journal of Rheology, 2002, 46, 145-167.	1.3	191
12	Oriented MFI Membranes by Gelâ€Less Secondary Growth of Subâ€100 nm MFIâ€Nanosheet Seed Layers. Advanced Materials, 2015, 27, 3243-3249.	11.1	182
13	Role of Block Copolymers on Suppression of Droplet Coalescence. Macromolecules, 2002, 35, 7845-7855.	2.2	177
14	Nanoclayâ€Modified Rigid Polyurethane Foam. Journal of Macromolecular Science - Physics, 2005, 44, 897-908.	0.4	147
15	Block copolymer compatibilization of cocontinuous polymer blends. Polymer, 2005, 46, 183-191.	1.8	137
16	Influence of normal stress difference on polymer drop deformation. Polymer Engineering and Science, 1996, 36, 1647-1655.	1.5	134
17	Calculation of molecular parameters for stepwise polyfunctional polymerization. Polymer Engineering and Science, 1979, 19, 272-283.	1.5	126
18	Rheological changes during a urethane network polymerization. Polymer Engineering and Science, 1976, 16, 803-810.	1.5	124

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19	Does Graphene Change T_g of Nanocomposites?. Macromolecules, 2014, 47, 8311-8319.	2.2	119
20	Localizing graphene at the interface of cocontinuous polymer blends: Morphology, rheology, and conductivity of cocontinuous conductive polymer composites. Journal of Rheology, 2017, 61, 575-587.	1.3	107
21	Rheology of network forming systems. Polymer Engineering and Science, 1973, 13, 236-240.	1.5	105
22	Improving polymer blend dispersion in mini-mixers. Polymer Engineering and Science, 2001, 41, 118-130.	1.5	105
23	Reactivity of common functional groups with urethanes: Models for reactive compatibilization of thermoplastic polyurethane blends. Journal of Polymer Science Part A, 2002, 40, 2310-2328.	2.5	105
24	Kinetics and energetics of a fast polyurethane cure. Journal of Applied Polymer Science, 1977, 21, 2029-2039.	1.3	103
25	Interfacial Reaction Induced Roughening in Polymer Blends. Macromolecules, 1999, 32, 106-110.	2.2	102
26	Openâ€Pore Twoâ€Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbonâ€Isomerâ€Selective Membranes on Porous Polymer Supports. Angewandte Chemie - International Edition, 2016, 55, 7184-7187.	7.2	100
27	Nonlinear shear and extensional rheology of long-chain randomly branched polybutadiene. Journal of Rheology, 1998, 42, 1303-1327.	1.3	95
28	Adhesion between Immiscible Polymers Correlated with Interfacial Entanglements. Macromolecules, 2003, 36, 2808-2815.	2.2	94
29	Block Copolymers in Homopolymer Blends:Â Interface vs Micelles. Macromolecules, 2001, 34, 8663-8668.	2.2	93
30	Coalescence in polymer blends during shearing. AICHE Journal, 2000, 46, 229-238.	1.8	91
31	Kinetic model for crosslinking free radical polymerization including diffusion limitations. Journal of Applied Polymer Science, 1992, 44, 1711-1729.	1.3	86
32	Impingement mixing in reaction injection molding. Polymer Engineering and Science, 1980, 20, 868-874.	1.5	85
33	Controlling the Morphology of Immiscible Cocontinuous Polymer Blends via Silica Nanoparticles Jammed at the Interface. Macromolecules, 2016, 49, 3911-3918.	2.2	85
34	Nanofibers from Melt Blown Fiber-in-Fiber Polymer Blends. ACS Macro Letters, 2013, 2, 301-305.	2.3	84
35	Flow-Induced Reactive Self-Assembly. Macromolecules, 1997, 30, 1243-1246.	2.2	83
36	Viscous dissipation in die flows. AICHE Journal, 1974, 20, 785-795.	1.8	81

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37	Heat transfer and curing in polymer reaction molding. AICHE Journal, 1976, 22, 268-276.	1.8	79
38	Stabilization of PE/PEO Cocontinuous Blends by Interfacial Nanoclays. Macromolecules, 2015, 48, 4631-4644.	2.2	78
39	Can extensional viscosity be measured with opposed-nozzle devices?. Rheologica Acta, 1997, 36, 429-448.	1.1	76
40	Model experiments for the interfacial reaction between polymers during reactive polymer blending. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 205-213.	2.4	75
41	Dynamics and rheology of nonpolar bijels. Soft Matter, 2015, 11, 5282-5293.	1.2	75
42	Unsaturated polyester resin toughening with very low loadings of GO derivatives. Polymer, 2017, 110, 149-157.	1.8	75
43	Swelling Behavior of Î³-Irradiation Cross-Linked Elastomeric Polypentapeptide-Based Hydrogels. Macromolecules, 2001, 34, 4114-4123.	2.2	74
44	Melt crystallization of poly(ethylene terephthalate): Comparing addition of graphene vs. carbon nanotubes. Polymer, 2014, 55, 2077-2085.	1.8	74
45	Kinetic Control of Graphene Localization in Co-continuous Polymer Blends via Melt Compounding. Langmuir, 2018, 34, 1073-1083.	1.6	74
46	Modeling of coalescence in polymer blends. AICHE Journal, 2002, 48, 7-14.	1.8	73
47	Polymer-polymer interfacial slip in multilayered films. Journal of Rheology, 2009, 53, 893-915.	1.3	73
48	The influence of impingement mixing on striation thickness distribution and properties in fast polyurethane polymerization. Polymer Engineering and Science, 1982, 22, 388-392.	1.5	72
49	Milligrams to kilograms: An evaluation of mixers for reactive polymer blending. Polymer Engineering and Science, 1995, 35, 100-114.	1.5	71
50	Wetting of fiber mats for composites manufacturing: I. Visualization experiments. AICHE Journal, 1995, 41, 2261-2273.	1.8	70
51	Network parameters for crosslinking of chains with length and site distribution. Journal of Polymer Science, Part B: Polymer Physics, 1988, 26, 1-54.	2.4	68
52	Extensional viscosity from entrance pressure drop measurements. Rheologica Acta, 1997, 36, 144-151.	1.1	68
53	Coupling Reactions of End- vs Mid-Functional Polymers. Macromolecules, 2004, 37, 2563-2571.	2.2	68
54	2D Zeolite Coatings: Langmuirâ€“Schaefer Deposition of 3â€…nm Thick MFI Zeolite Nanosheets. Angewandte Chemie - International Edition, 2015, 54, 6571-6575.	7.2	67

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55	Effect of Thermally Reduced Graphene Sheets on the Phase Behavior, Morphology, and Electrical Conductivity in Poly[(Î±-methyl styrene)-co-(acrylonitrile)/poly(methyl-methacrylate) Blends. ACS Applied Materials & Interfaces, 2011, 3, 3172-3180.	4.0	66
56	Transmission electron microscopy of saturated hydrocarbon block copolymers. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 247-252.	2.4	65
57	Rheological changes during crosslinking. British Polymer Journal, 1985, 17, 239-245.	0.7	64
58	Microstructure of triblock copolymers in asphalt oligomers. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2857-2877.	2.4	64
59	Comparison of methods for the detection of cocontinuity in poly(ethylene oxide)/polystyrene blends. Polymer Engineering and Science, 2004, 44, 714-727.	1.5	62
60	Annealing of Cocontinuous Polymer Blends: Effect of Block Copolymer Molecular Weight and Architecture. Macromolecules, 2010, 43, 5024-5032.	2.2	61
61	Interfacial slip reduces polymer-polymer adhesion during coextrusion. Journal of Rheology, 2006, 50, 41-57.	1.3	60
62	A simple route towards graphene oxide frameworks. Materials Horizons, 2014, 1, 139-145.	6.4	60
63	Effect of Thermodynamic Interactions on Reactions at Polymer/Polymer Interfaces. Macromolecules, 2003, 36, 7212-7219.	2.2	59
64	Characterizing Interface Shape Evolution in Immiscible Polymer Blends via 3D Image Analysis. Langmuir, 2009, 25, 9392-9404.	1.6	58
65	Synchrotron X-ray Microtomography for 3D Imaging of Polymer Blends. Macromolecules, 2007, 40, 2029-2035.	2.2	57
66	Role of Crystallization on Polyolefin Interfaces: An Improved Outlook for Polyolefin Blends. Macromolecules, 2018, 51, 2506-2516.	2.2	56
67	Interfacial Morphology Development during PS/PMMA Reactive Coupling. Macromolecules, 2005, 38, 6586-6591.	2.2	55
68	Sol-gel polycondensation kinetic modeling: Methylethoxysilanes. AICHE Journal, 1998, 44, 1141-1156.	1.8	54
69	Rheological and morphological study of cocontinuous polymer blends during coarsening. Journal of Rheology, 2012, 56, 1315-1334.	1.3	54
70	Curing and heat transfer in polyurethane reaction molding. Polymer Engineering and Science, 1978, 18, 382-387.	1.5	53
71	Monte Carlo description of Af homopolymerization: Diffusional effects. Journal of Chemical Physics, 1991, 95, 2097-2108.	1.2	52
72	Porous Films via PE/PEO Cocontinuous Blends. Macromolecules, 2012, 45, 6036-6044.	2.2	52

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73	Accelerating Reactive Compatibilization of PE/PLA Blends by an Interfacially Localized Catalyst. ACS Macro Letters, 2015, 4, 30-33.	2.3	52
74	DSC and 13C-NMR studies of the imidazole-accelerated reaction between epoxides and phenols. Journal of Applied Polymer Science, 1989, 38, 1253-1269.	1.3	49
75	Mechanical Properties of Linear Lowâ€density Polyethylene (LLDPE)/clay Nanocomposites: Estimation of Aspect Ratio and Ä°nterfacial Strength by Composite Models. Journal of Macromolecular Science - Physics, 2008, 47, 608-619.	0.4	49
76	Thermoplastic polyurethane elastomers from bio-based poly(Î´-decalactone) diols. Polymer Chemistry, 2014, 5, 3231-3237.	1.9	49
77	Molecular weight relations for crosslinking of chains with length and site distribution. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 2441-2469.	2.4	46
78	Polymerization of dicyclopentadiene: A new reaction injection molding system. Journal of Applied Polymer Science, 1985, 30, 2787-2803.	1.3	45
79	Viscosity Rise during Free Radical Crosslinking Polymerization with Inhibition. Journal of Rheology, 1985, 29, 259-272.	1.3	45
80	Kinetics of isocyanate amine reactions. Journal of Applied Polymer Science, 1987, 34, 2409-2432.	1.3	45
81	Chemorheology relations for epoxy-amine crosslinking. Journal of Polymer Science, Part B: Polymer Physics, 1990, 28, 691-709.	2.4	45
82	Effect of extensional viscosity on cocontinuity of immiscible polymer blends. Journal of Rheology, 2015, 59, 1397-1417.	1.3	45
83	Structure and Rheology of Hydrogen Bond Reinforced Liquid Crystals. Chemistry of Materials, 2004, 16, 3045-3055.	3.2	44
84	A new model for the coarsening of cocontinuous morphologies. Soft Matter, 2010, 6, 2637.	1.2	44
85	Hydrolysis and blistering of cyanate ester networks. Journal of Applied Polymer Science, 1997, 64, 107-113.	1.3	43
86	Coalescence in blends of thermoplastic polyurethane with polyolefins. Polymer Engineering and Science, 1999, 39, 1022-1034.	1.5	41
87	Rheology of compatibilized immiscible blends with droplet-matrix and cocontinuous morphologies during coarsening. Journal of Rheology, 2014, 58, 1935-1953.	1.3	41
88	Linear, Graft, and Beyond: Multiblock Copolymers as Next-Generation Compatibilizers. Jacs Au, 2022, 2, 310-321.	3.6	41
89	Heat transfer and cure in pultrusion: Model and experimental verification. AICHE Journal, 1993, 39, 1228-1241.	1.8	40
90	Simultaneous measurement of viscoelastic changes and cell opening during processing of flexible polyurethane foam. Rheologica Acta, 1996, 35, 656-666.	1.1	40

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91	Phase transition and elasticity of protein-based hydrogels. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 229-242.	1.9	40
92	Reactive Compatibilization of Poly(ethylene terephthalate) and High-Density Polyethylene Using Amino-Telechelic Polyethylene. Macromolecules, 2016, 49, 8988-8994.	2.2	40
93	Kinetics and conversion monitoring in a RIM themoplastic polyurethane system. Journal of Applied Polymer Science, 1980, 25, 2317-2329.	1.3	38
94	Wetting of fiber mats for composites manufacturing: II. Air entrapment model. AICHE Journal, 1995, 41, 2274-2281.	1.8	37
95	Urea hard segment morphology in flexible polyurethane foam. , 1998, 36, 573-581.		37
96	Rheological and Mechanical Properties of Filled Rubber: Silica-Silicone. Rubber Chemistry and Technology, 1994, 67, 820-833.	0.6	36
97	Formation of curcumin nanoparticles by flash nanoprecipitation from emulsions. Journal of Colloid and Interface Science, 2014, 434, 65-70.	5.0	36
98	Compatibilized blends of thermoplastic polyurethane(TPU) and polypropylene. Macromolecular Symposia, 2003, 198, 221-232.	0.4	35
99	Dynamics of Capillary-Driven Flow in 3D Printed Open Microchannels. Langmuir, 2017, 33, 2949-2964.	1.6	34
100	Reactive compatibilization of poly(lactic acid)/polystyrene blends and its application to preparation of hierarchically porous poly(lactic acid). Polymer, 2018, 134, 104-116.	1.8	34
101	Fluorine-Enriched Melt-Blown Fibers from Polymer Blends of Poly(butylene terephthalate) and a Fluorinated Multiblock Copolyester. ACS Applied Materials & Interfaces, 2016, 8, 754-761.	4.0	33
102	Polymer-polymer interfacial slip by direct visualization and by stress reduction. Journal of Rheology, 2010, 54, 1207-1218.	1.3	32
103	Transient extensional viscosity from a rotational shear rheometer using fiberâ€windup technique. Journal of Rheology, 1996, 40, 473-481.	1.3	31
104	Flow accelerates adhesion between functional polyethylene and polyurethane. AICHE Journal, 2011, 57, 3496-3506.	1.8	31
105	Polymer Day: Outreach Experiments for High School Students. Journal of Chemical Education, 2017, 94, 1629-1638.	1.1	31
106	Effect of Graphene on Polypropylene/Maleic Anhydride-graft-Ethyleneâ€“Vinyl Acetate (PP/EVA-g-MA) Blend: Mechanical, Thermal, Morphological, and Rheological Properties. Industrial & Engineering Chemistry Research, 2018, 57, 7834-7845.	1.8	31
107	Can nanoparticle toughen fiber-reinforced thermosetting polymers?. Journal of Materials Science, 2019, 54, 4471-4483.	1.7	31
108	Nanoparticles Containing High Loads of Paclitaxel-Silicate Prodrugs: Formulation, Drug Release, and Anticancer Efficacy. Molecular Pharmaceutics, 2015, 12, 4329-4335.	2.3	30

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109	Influence of Functionalized Graphene Sheets on Modulus and Glass Transition of PMMA. Macromolecules, 2014, 47, 7674-7676.	2.2	29
110	Synthesis ofend- andmid-Phthalic Anhydride Functional Polymers by Atom Transfer Radical Polymerization. Macromolecules, 2001, 34, 7941-7951.	2.2	28
111	Polymer/Graphene Composites via Spinodal Decomposition of Miscible Polymer Blends. Macromolecules, 2019, 52, 7625-7637.	2.2	28
112	Kinetics of amine-cyclic anhydride reactions in moderately polar solutions. Journal of Polymer Science Part A, 1995, 33, 2165-2174.	2.5	27
113	Structure development in cyanate ester polymerization. Polymer International, 1997, 44, 237-247.	1.6	27
114	Amino-Functionalized Polyethylene for Enhancing the Adhesion between Polyolefins and Polyurethanes. Industrial & Engineering Chemistry Research, 2011, 50, 3274-3279.	1.8	27
115	Capillary Coatings: Flow and Drying Dynamics in Open Microchannels. Langmuir, 2018, 34, 7624-7639.	1.6	26
116	A forced torsional oscillator for dynamic mechanical measurements. Polymer Engineering and Science, 1977, 17, 32-37.	1.5	25
117	Stress relaxation and dynamic viscoelastic properties of end-linked poly(dimethyl siloxane) networks containing unattached poly(dimethyl siloxane). Journal of Polymer Science, Polymer Physics Edition, 1981, 19, 1745-1757.	1.0	25
118	Polymerâ€“polymer mutual diffusion via rheology of coextruded multilayers. AICHE Journal, 2007, 53, 978-985.	1.8	25
119	Functionalized linear low-density polyethylene by ring-opening metathesis polymerization. Polymer Chemistry, 2013, 4, 1193-1198.	1.9	25
120	Modeling strategy for systems with both stepwise and chainwise chemistry: Amine-epoxy networks with etherification. Journal of Polymer Science, Part B: Polymer Physics, 1990, 28, 2585-2606.	2.4	24
121	Rheology of polymer multilayers: Slip in shear, hardening in extension. Journal of Rheology, 2019, 63, 751-761.	1.3	24
122	Strategies for interfacial localization of graphene/polyethyleneâ€based cocontinuous blends for electrical percolation. AICHE Journal, 2019, 65, e16579.	1.8	23
123	AFM Probing of Polymer/Nanofiller Interfacial Adhesion and Its Correlation with Bulk Mechanical Properties in a Poly(ethylene terephthalate) Nanocomposite. Langmuir, 2014, 30, 12950-12959.	1.6	22
124	Phase separation during fast (RIM) polyâ€urethane polymerization. Makromolekulare Chemie Macromolecular Symposia, 1989, 25, 23-44.	0.6	21
125	Direct Measurement of Interface Anisotropy of Bicontinuous Structures via 3D Image Analysis. Langmuir, 2010, 26, 14284-14293.	1.6	21
126	Polyethylene Terephthalate/Trimellitic Anhydride Modified Graphene Nanocomposites. ACS Applied Nano Materials, 2018, 1, 6301-6311.	2.4	21

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127	Direct Correlation Between Adhesion Promotion and Coupling Reaction at Immiscible Polymer-Polymer Interfaces. Journal of Adhesion, 2006, 82, 887-902.	1.8	20
128	Microdispersive interfacial mixing in fast polymerizations. AICHE Journal, 1988, 34, 1057-1064.	1.8	19
129	Reactive coupling between immiscible polymer chains: Acceleration by compressive flow. AICHE Journal, 2013, 59, 3391-3402.	1.8	19
130	Anionic synthesis and detection of fluorescence-labeled polymers with a terminal anhydride group. Journal of Polymer Science Part A, 2000, 38, 2177-2185.	2.5	18
131	Reaction injection molding process of glass fiber reinforced polyurethane composites. Polymer Engineering and Science, 2000, 40, 2205-2216.	1.5	18
132	Rheological and mechanical behavior of blends of styrene-butadiene rubber with polypropylene. Polymer Engineering and Science, 2005, 45, 1487-1497.	1.5	18
133	Higher-Order Structure in Amorphous Poly(ethylene terephthalate)/Graphene Nanocomposites and Its Correlation with Bulk Mechanical Properties. ACS Omega, 2019, 4, 1228-1237.	1.6	18
134	Copolymerization kinetics of a model siloxane system. Journal of Polymer Science Part A, 1997, 35, 1293-1302.	2.5	17
135	Effects of Inorganic Fillers on Toughening of Vinyl Ester Resins by Modified Graphene Oxide. Industrial & Engineering Chemistry Research, 2018, 57, 4592-4599.	1.8	16
136	Raman imaging of surface and sub-surface graphene oxide in fiber reinforced polymer nanocomposites. Carbon, 2019, 143, 793-801.	5.4	16
137	PET/Graphene Compatibilization for Different Aspect Ratio Graphenes via Trimellitic Anhydride Functionalization. ACS Omega, 2020, 5, 3228-3239.	1.6	16
138	Tensile yield energy in glassy polymers. Polymer Engineering and Science, 1972, 12, 444-449.	1.5	15
139	Interfacial Energy and Adhesion between Acrylic Pressure Sensitive Adhesives and Release Coatings. Journal of Adhesion, 2001, 77, 95-123.	1.8	15
140	Poly(urea ester): A family of biodegradable polymers with high melting temperatures. Journal of Polymer Science Part A, 2016, 54, 3795-3799.	2.5	15
141	Nanoparticles in Glass Fiberâ€Reinforced Polyester Composites: Comparing Toughening Effects of Modified Graphene Oxide and Coreâ€Shell Rubber. Polymer Composites, 2019, 40, E1512-E1524.	2.3	15
142	Calculation of average molecular properties during nonlinear, living copolymerization. Die Makromolekulare Chemie, 1991, 192, 377-404.	1.1	14
143	Reaction Kinetics and Injection Molding of Liquid Silicone Rubber. Rubber Chemistry and Technology, 1991, 64, 218-233.	0.6	14
144	A comparison of boundary element and finite element methods for modeling axisymmetric polymeric drop deformation. International Journal for Numerical Methods in Fluids, 2001, 37, 837-864.	0.9	14

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145	Development of discrete nanopores I: Tension of polypropylene/ polyethylene copolymer blends. Journal of Applied Polymer Science, 2004, 91, 3642-3650.	1.3	14
146	Adhesion between polyethylenes and different types of polypropylenes. Polymer Journal, 2012, 44, 939-945.	1.3	13
147	Interfacial Tension Measurement and Micellization in a Polymer Blend with Copolymer Surfactant: A False Critical Micelle Concentration. Macromolecules, 2015, 48, 8154-8168.	2.2	13
148	Robust networks of interfacial localized graphene in cocontinuous polymer blends. Journal of Rheology, 2021, 65, 1139-1153.	1.3	12
149	Thermal, mechanical, and fracture properties of copolyureas formed by reaction injection molding: Effects of hard segment structure. Journal of Applied Polymer Science, 1991, 42, 1023-1039.	1.3	11
150	Interfacial crosslinking and diffusion via extensional rheometry. Polymer Engineering and Science, 2002, 42, 1-9.	1.5	11
151	Rheology of highly concentrated anionic surfactants. Rheologica Acta, 2006, 45, 891-898.	1.1	11
152	Subâ€Micrometer Zeolite Films on Goldâ€Coated Silicon Wafers with Singleâ€Crystalâ€Like Dielectric Constant and Elastic Modulus. Advanced Functional Materials, 2017, 27, 1700864.	7.8	11
153	Sag in drying coatings: Prediction and real time measurement with particle tracking. Progress in Organic Coatings, 2015, 86, 49-58.	1.9	10
154	Modified-Graphene-Oxide-Containing Styrene Masterbatches for Thermosets. Industrial & Engineering Chemistry Research, 2017, 56, 11443-11450.	1.8	10
155	Mechanical equilibrium for eccentric rotating disks. AICHE Journal, 1974, 20, 600-602.	1.8	9
156	Heat Transfer and Property Development in Liquid Silicone Rubber Molding. Rubber Chemistry and Technology, 1985, 58, 436-448.	0.6	9
157	Openâ€Pore Twoâ€Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbonâ€Isomerâ€Selective Membranes on Porous Polymer Supports. Angewandte Chemie, 2016, 128, 7300-7303.	1.6	9
158	Toughening polylactide with a catalyzed epoxyâ€acid interfacial reaction. Polymer Engineering and Science, 2018, 58, 28-36.	1.5	9
159	Molecular Dynamics-Based Cohesive Law for Epoxyâ€“Graphene Interfaces. Tribology Letters, 2021, 69, 1.	1.2	9
160	Can extensional viscosity be measured with opposed-nozzle devices?. Rheologica Acta, 1997, 36, 429-448.	1.1	9
161	Analysis of the normal stress extruder. AICHE Journal, 1974, 20, 67-73.	1.8	8
162	Imaging Open-Cell Polyurethane Foam via Confocal Microscopy. ACS Symposium Series, 1997, , 165-177.	0.5	8

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163	Evaluating sag resistance with a multinotched applicator: correlation with surface flow measurements and practical recommendations. Journal of Coatings Technology Research, 2015, 12, 809-817.	1.2	8
164	Effects of a Layered Morphology on Drip Suppression in Burning Polymers. ACS Applied Polymer Materials, 2021, 3, 1664-1674.	2.0	8
165	Conversion and Composition Profiles in Polyurethane Reaction Molding. ACS Symposium Series, 1979, , 149-179.	0.5	7
166	Interfacial Interactions in Silica Reinforced Silicones. Materials Research Society Symposia Proceedings, 1989, 170, 303.	0.1	7
167	The recirculating screw mixer: A new small-volume mixer for the polymer laboratory. Polymer Engineering and Science, 1993, 33, 1065-1078.	1.5	7
168	Tandem GC/MS: A useful tool for studying end-capping reactions of oligo(styryl)lithium anions. Journal of Polymer Science Part A, 1995, 33, 1957-1967.	2.5	7
169	Models for adhesion at weak polymer interfaces. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2313-2319.	2.4	7
170	An aqueous pathway to polymeric foaming with nanoclay. Green Chemistry, 2012, 14, 766.	4.6	7
171	Evaluating <scp>PE</scp>/<scp>PLA</scp> interfacial tension using ternary immiscible polymer blends. Journal of Applied Polymer Science, 2021, 138, 50623.	1.3	7
172	Dispersing organoclay in polystyrene melts: Roles of stress and diffusion. Central South University, 2007, 14, 196-201.	0.5	6
173	Sol-Gel Kinetics for the Preparation of Inorganic/Organic Siloxane Copolymers. Materials Research Society Symposia Proceedings, 1996, 435, 113.	0.1	5
174	Effect of Silicone Surfactant on Air Flow of Flexible Polyurethane Foams. ACS Symposium Series, 1997, , 130-142.	0.5	5
175	Rouseâ€“Bueche theory and the calculation of the monomeric friction coefficient in a filled system. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1437-1442.	2.4	5
176	Adapting a Capillary Rheometer for Research on Polymer Melt Interfaces. Industrial & Engineering Chemistry Research, 2018, 57, 14106-14113.	1.8	5
177	Development of discrete nanopores. II. Comparison between layered films and blends of polyolefins. Journal of Applied Polymer Science, 2005, 95, 708-718.	1.3	3
178	Synthesis of lamellar isobutyl silicates and dispersion in polypropylene melts. Journal of Applied Polymer Science, 2007, 105, 1456-1465.	1.3	3
179	Coarsening of PS/SAN Blends with Cocontinuous Morphology Studied with 3D Image Analysis. Macromolecular Symposia, 2009, 283-284, 348-353.	0.4	3
180	Modeling the intrinsic viscosity of polydisperse disks. Journal of Rheology, 2017, 61, 997-1006.	1.3	3

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181	Accelerating the Coupling of Maleated Polyolefins with Polyesters via Tin Compounds. Macromolecules, 2019, 52, 8359-8366.	2.2	3
182	Block Copolymer Based Pressure Sensitive Adhesives Modified with PPO for Increased Service Temperatures. Journal of Adhesion, 2000, 73, 65-85.	1.8	2
183	Rheological characterization and thermal modeling of polyolefins for process design and tailored interfaces. AIP Conference Proceedings, 2017, , .	0.3	2
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