

Kyung Hyun Ahn

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.

189
papers

5,567
citations

36
h-index

69
g-index

198
ext. papers

6,238
ext. citations

4.1
avg. IF

5.74
L-index

#	Paper	IF	Citations
189	Secondary polymer-induced particle aggregation and its rheological, electrical, and mechanical effects on PLA-based ternary composites. <i>Journal of Rheology</i> , 2022 , 66, 275-291	4.1	1
188	Interconnected network of Ag and Cu in bioplastics for ultrahigh electromagnetic interference shielding efficiency with high thermal conductivity. <i>Composites Communications</i> , 2022 , 30, 101093	6.7	1
187	Stratification Mechanism in the Bidisperse Colloidal Film Drying Process: Evolution and Decomposition of Normal Stress Correlated with Microstructure. <i>Langmuir</i> , 2021 , 37, 13712-13728	4	1
186	Controlling Drying Stress and Mechanical Properties of Battery Electrodes Using a Capillary Force-Induced Suspension System. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4873-4882	3.9	4
185	Effect of Operating Conditions on the Sessile Drop Oscillation of PEO Solutions in the Capillary Thinning Process. <i>Nihon Reoraji Gakkaishi</i> , 2021 , 49, 127-133	0.8	1
184	Brownian dynamics simulation on orthogonal superposition rheology: Time-dependent superposition of colloidal gel. <i>Journal of Rheology</i> , 2021 , 65, 337-354	4.1	3
183	Synergistic toughening effect of hybrid clay particles on poly(lactic acid)/natural rubber blend. <i>Polymer Composites</i> , 2021 , 42, 1021-1033	3	2
182	Injectable hydrogels with improved mechanical property based on electrostatic associations. <i>Colloid and Polymer Science</i> , 2021 , 299, 575-584	2.4	2
181	Interplay between particulate fouling and its flow disturbance: Numerical and experimental studies. <i>Journal of Membrane Science</i> , 2021 , 635, 119497	9.6	1
180	Effect of Melt-Compounding Protocol on Self-Aggregation and Percolation in a Ternary Composite. <i>Polymers</i> , 2020 , 12,	4.5	2
179	Flow and mixing characteristics of a groove-embedded partitioned pipe mixer 2020 , 32, 319-329		2
178	Particle dynamics at fluid interfaces studied by the color gradient lattice Boltzmann method coupled with the smoothed profile method. <i>Physical Review E</i> , 2020 , 101, 053302	2.4	4
177	Viscosity Measurement of Whole Blood with Parallel Plate Rheometers. <i>Biochip Journal</i> , 2020 , 14, 179-184		1
176	Application of a Flow-Type Electrochemical Lithium Recovery System with $\text{MnO}_2/\text{LiMn}_2\text{O}_4$: Experiment and Simulation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9622-9631	8.3	13
175	Toughening Effect of Clay Particles on Poly(Lactic Acid)/Natural Rubber Blend. <i>Nihon Reoraji Gakkaishi</i> , 2020 , 48, 101-107	0.8	
174	Change of rheological/mechanical properties of poly(caprolactone)/ CaCO_3 composite with particle surface modification 2020 , 32, 29-39		5
173	Reduced graphene-oxide filter system for removing filterable and condensable particulate matter from source. <i>Journal of Hazardous Materials</i> , 2020 , 391, 122223	12.8	7

172	Design of electrical conductive poly(lactic acid)/carbon black composites by induced particle aggregation. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49295	2.9	9
171	Role of PVDF in Rheology and Microstructure of NCM Cathode Slurries for Lithium-Ion Battery. <i>Materials</i> , 2020 , 13,	3.5	11
170	The first normal stress difference of non-Brownian hard-sphere suspensions in the oscillatory shear flow near the liquid and crystal coexistence region. <i>Soft Matter</i> , 2020 , 16, 9864-9875	3.6	0
169	Fouling mitigation in crossflow filtration using chaotic advection: A numerical study. <i>AIChE Journal</i> , 2020 , 66, e16792	3.6	6
168	Colloidal dynamics and elasticity of dense wax particle suspensions over a wide range of volume fractions when tuning the softness by temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 576, 1-8	5.1	2
167	Particle percolation in a poly(lactic acid)/calcium carbonate nanocomposite with a small amount of a secondary phase and its influence on the mechanical properties. <i>Polymer Composites</i> , 2019 , 40, 4023-4032	4.3	7
166	Rheological analysis of oil/water emulsions stabilized with clay particles by LAOS and interfacial shear moduli measurements. <i>Rheologica Acta</i> , 2019 , 58, 453-466	2.3	1
165	Effect of neutralization of poly(acrylic acid) binder on the dispersion heterogeneity of Li-ion battery electrodes. <i>Journal of Materials Science</i> , 2019 , 54, 13208-13220	4.3	12
164	How the interaction between styrene-butadiene-rubber (SBR) binder and a secondary fluid affects the rheology, microstructure and adhesive properties of capillary-suspension-type graphite slurries used for Li-ion battery anodes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 579, 123692	5.1	11
163	Design Optimization for a Microfluidic Crossflow Filtration System Incorporating a Micromixer. <i>Micromachines</i> , 2019 , 10,	3.3	9
162	Thermocapillary flows on heated substrates with sinusoidal topography. <i>Journal of Fluid Mechanics</i> , 2019 , 859, 992-1021	3.7	1
161	Transport and deposition of colloidal particles on a patterned membrane surface: Effect of cross-flow velocity and the size ratio of particle to surface pattern. <i>Journal of Membrane Science</i> , 2019 , 572, 309-319	9.6	18
160	Brownian dynamics of colloidal microspheres with tunable elastic properties from soft to hard. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 546, 360-365	5.1	4
159	Acceleration of instability during the capillary thinning process due to the addition of particles to a poly(ethylene oxide) solution. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018 , 258, 58-68	2.7	2
158	Path-dependent work and energy in large amplitude oscillatory shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018 , 251, 1-9	2.7	2
157	Preparation of polycarbonate/poly(acrylonitrile-butadiene-styrene)/mesoporous silica nanocomposite films and its rheological, mechanical, and sound absorption properties. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45777	2.9	4
156	Effect of affinity on the structure formation in highly size asymmetric bimodal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 538, 481-487	5.1	2
155	Stress decomposition analysis in hard and soft sphere suspensions: double peaks in the elastic stress of hard sphere suspensions and its characteristic and structural origin. <i>Rheologica Acta</i> , 2018 , 57, 15-27	2.3	1

154	Chaotic mixing in a barrier-embedded partitioned pipe mixer. <i>AICHE Journal</i> , 2018 , 64, 717-729	3.6	12
153	Orthogonal superposition rheometry of colloidal gels: time-shear rate superposition. <i>Soft Matter</i> , 2018 , 14, 8651-8659	3.6	10
152	Agglomerate Breakup of Destabilized Polystyrene Particles under a Cross-Channel Planar Extensional Flow. <i>Langmuir</i> , 2018 , 34, 11454-11463	4	1
151	Numerical study on the mixing in a barrier-embedded partitioned pipe mixer (BPPM) for non-creeping flow conditions 2018 , 30, 227-238		6
150	Conductive poly(high internal phase emulsion) foams incorporated with polydopamine-coated carbon nanotubes. <i>Polymer</i> , 2017 , 110, 187-195	3.9	26
149	Effect of Pattern Shape on the Initial Deposition of Particles in the Aqueous Phase on Patterned Membranes during Crossflow Filtration. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 66-70	11	30
148	Interplay between structure and property of graphene nanoplatelet networks formed by an electric field in a poly(lactic acid) matrix. <i>Journal of Rheology</i> , 2017 , 61, 291-303	4.1	10
147	Clogging mechanism of poly(styrene) particles in the flow through a single micro-pore. <i>Journal of Membrane Science</i> , 2017 , 534, 25-32	9.6	10
146	A novel Lattice Boltzmann method for the dynamics of rigid particles suspended in a viscoelastic medium. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017 , 244, 75-84	2.7	13
145	A new paradigm of materials processing heterogeneity control. <i>Current Opinion in Chemical Engineering</i> , 2017 , 16, 16-22	5.4	16
144	Time-dependent viscoelastic properties of Oldroyd-B fluid studied by advection-diffusion lattice Boltzmann method 2017 , 29, 137-146		1
143	Reversible Cell Layering for Heterogeneous Cell Assembly Mediated by Ionic Cross-Linking of Chitosan and a Functionalized Cell Surface Membrane. <i>Chemistry of Materials</i> , 2017 , 29, 5294-5305	9.6	5
142	Numerical analysis of the heat transfer and fluid flow in the butt-fusion welding process 2017 , 29, 37-49		4
141	Structure-rheology relationship for a homogeneous colloidal gel under shear startup. <i>Journal of Rheology</i> , 2017 , 61, 117-137	4.1	28
140	Growths of mechanical elasticity and electrical conductance of graphene nanoplatelet/poly(lactic acid) composites under strong electric field: correlation with time evolution of higher order structure of graphene nanoplatelets. <i>Rheologica Acta</i> , 2017 , 56, 871-885	2.3	3
139	Effect of silica particles on vortex dynamics in a micro-contraction channel flow of poly(ethylene oxide) solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016 , 234, 170-177	2.7	5
138	Heterogeneity in the final stage of filament breakup of silicone oil/PMMA suspensions. <i>Rheologica Acta</i> , 2016 , 55, 91-101	2.3	2
137	Effect of electric field on polymer/clay nanocomposites depending on the affinities between the polymer and clay. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	10

136	Characterization of Compatibilizing Effect of Organoclay in Poly(lactic acid) and Natural Rubber Blends by FT-Rheology. <i>Macromolecules</i> , 2016 , 49, 2832-2842	5.5	37
135	Film squeezing process for generating oblate spheroidal particles with high yield and uniform sizes. <i>Colloid and Polymer Science</i> , 2016 , 294, 859-867	2.4	15
134	Effect of organoclay as a compatibilizer in poly(lactic acid) and natural rubber blends. <i>European Polymer Journal</i> , 2016 , 76, 216-227	5.2	39
133	Interplay between electrical and rheological properties of viscoelastic inks. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	
132	Correlation of membrane fouling with topography of patterned membranes for water treatment. <i>Journal of Membrane Science</i> , 2016 , 498, 14-19	9.6	55
131	Structural Development of Nanoparticle Dispersion during Drying in Polymer Nanocomposite Films. <i>Macromolecules</i> , 2016 , 49, 9068-9079	5.5	23
130	A review on particle dynamics simulation techniques for colloidal dispersions: Methods and applications. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 3069-3078	2.8	13
129	Three-dimensional hydraulic modeling of particle deposition on the patterned isopore membrane in crossflow microfiltration. <i>Journal of Membrane Science</i> , 2015 , 492, 156-163	9.6	20
128	Interdiffusion and chain orientation in the drying of multi-layer polyimide film. <i>Polymer</i> , 2015 , 68, 74-82	3.9	4
127	Flow patterns in 4:1 micro-contraction flows of viscoelastic fluids	2015, 27, 65-73	6
126	Stress Development of Li-Ion Battery Anode Slurries during the Drying Process. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6146-6155	3.9	31
125	Rheology and microstructure of non-Brownian suspensions in the liquid and crystal coexistence region: strain stiffening in large amplitude oscillatory shear. <i>Soft Matter</i> , 2015 , 11, 4061-74	3.6	16
124	Structural change and dynamics of colloidal gels under oscillatory shear flow. <i>Soft Matter</i> , 2015 , 11, 9262-72	3.6	26
123	Nanothin Coculture Membranes with Tunable Pore Architecture and Thermo-responsive Functionality for Transfer-Printable Stem Cell-Derived Cardiac Sheets. <i>ACS Nano</i> , 2015 , 9, 10186-202	16.7	37
122	The effect of binders on the rheological properties and the microstructure formation of lithium-ion battery anode slurries. <i>Journal of Power Sources</i> , 2015 , 299, 221-230	8.9	73
121	Conductive nanocomposites based on polystyrene microspheres and silver nanowires by latex blending. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 756-64	9.5	32
120	Bimodal colloid gels of highly size-asymmetric particles. <i>Physical Review E</i> , 2015 , 92, 012313	2.4	9
119	Effect of preheating on the viscoelastic properties of dental composite under different deformation conditions. <i>Dental Materials Journal</i> , 2015 , 34, 702-6	2.5	11

118	Particle deposition on the patterned membrane surface: Simulation and experiments. <i>Desalination</i> , 2015 , 370, 17-24	10.3	31
117	Filament thinning of silicone oil/poly(methyl methacrylate) suspensions under extensional flow. <i>Rheologica Acta</i> , 2015 , 54, 705-714	2.3	8
116	Nanoparticle-Induced Gelation of Bimodal Slurries with Highly Size-Asymmetric Particles: Effect of Surface Chemistry and Concentration. <i>Langmuir</i> , 2015 , 31, 13639-46	4	13
115	A generality in stress development of silica/poly(vinyl alcohol) mixtures during drying process. <i>Progress in Organic Coatings</i> , 2015 , 88, 304-309	4.8	4
114	Depletion stabilization in nanoparticle-polymer suspensions: multi-length-scale analysis of microstructure. <i>Langmuir</i> , 2015 , 31, 1892-900	4	50
113	Evaluating Interfacial Force between Viscoelastic Ink and Substrate in Gravure Printing Process. <i>Korean Chemical Engineering Research</i> , 2015 , 53, 111-115		
112	Rheology and Morphology of PP/ionomer/clay Nanocomposites Depending on Selective Dispersion of Organoclays. <i>Korean Chemical Engineering Research</i> , 2015 , 53, 709-716		
111	Influence of non-covalent functionalization of carbon nanotubes on the rheological behavior of natural rubber latex nanocomposites. <i>European Polymer Journal</i> , 2014 , 53, 147-159	5.2	58
110	Gelation of graphene oxides induced by different types of amino acids. <i>Carbon</i> , 2014 , 71, 229-237	10.4	23
109	Pressure-driven flows of concentrated alumina suspensions depending on dispersion states of particles. <i>Rheologica Acta</i> , 2014 , 53, 209-218	2.3	3
108	Technical note: correcting for shear strain in an oscillatory squeeze flow rheometer. <i>Rheologica Acta</i> , 2014 , 53, 103-107	2.3	2
107	Factors affecting pattern fidelity and performance of a patterned membrane. <i>Journal of Membrane Science</i> , 2014 , 462, 1-8	9.6	34
106	High performance and antifouling vertically aligned carbon nanotube membrane for water purification. <i>Journal of Membrane Science</i> , 2014 , 460, 171-177	9.6	127
105	Dielectric Characterization of Pigment Inks for Electrohydrodynamic Jet Printing. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17445-17453	3.9	3
104	Effect of elasticity number and aspect ratio on the vortex dynamics in 4:1 micro-contraction channel flow 2014 , 26, 335-340		6
103	Dynamics of aggregating particulate suspensions in the microchannel flow of 4:1 planar contraction. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014 , 211, 62-69	2.7	6
102	Effect of thermal history during drying and curing process on the chain orientation of rod-shaped polyimide. <i>Polymer</i> , 2014 , 55, 5829-5836	3.9	12
101	High-throughput DNA separation in nanofilter arrays. <i>Electrophoresis</i> , 2014 , 35, 2068-77	3.6	2

100	Time-Weissenberg number superposition in planar contraction microchannel flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014 , 210, 41-46	2.7	4
99	Role of shear-induced dynamical heterogeneity in the nonlinear rheology of colloidal gels. <i>Soft Matter</i> , 2014 , 10, 9254-9	3.6	18
98	Local shear stress and its correlation with local volume fraction in concentrated non-Brownian suspensions: lattice Boltzmann simulation. <i>Physical Review E</i> , 2014 , 90, 062317	2.4	6
97	Flow instability due to coupling of shear-gradients with concentration: non-uniform flow of (hard-sphere) glasses. <i>Soft Matter</i> , 2014 , 10, 9470-85	3.6	23
96	The effect of film thickness on the depth-wise chain orientation of rod-shaped polyimide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 848-857	2.6	5
95	Drying of a charge-stabilized colloidal suspension in situ monitored by vertical small-angle X-ray scattering. <i>Langmuir</i> , 2013 , 29, 10059-65	4	18
94	Rheological properties of oil paints and their flow instabilities in blade coating. <i>Rheologica Acta</i> , 2013 , 52, 643-659	2.3	4
93	Optimization of experimental parameters to determine the jetting regimes in electrohydrodynamic printing. <i>Langmuir</i> , 2013 , 29, 13630-9	4	82
92	Yield and flow measurement of fine and coarse binary particulate mineral slurries. <i>International Journal of Mineral Processing</i> , 2013 , 119, 6-15		4
91	In situ flow visualization of capillary flow of concentrated alumina suspensions. <i>Rheologica Acta</i> , 2013 , 52, 547-556	2.3	4
90	Structural evolution of colloidal gels at intermediate volume fraction under start-up of shear flow. <i>Soft Matter</i> , 2013 , 9, 11650	3.6	40
89	Dynamics of model-stabilized colloidal suspensions in confined Couette flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013 , 199, 29-36	2.7	6
88	Latex migration in battery slurries during drying. <i>Langmuir</i> , 2013 , 29, 8233-44	4	70
87	Flow analysis and fouling on the patterned membrane surface. <i>Journal of Membrane Science</i> , 2013 , 427, 320-325	9.6	88
86	Prediction of coating thickness in the convective assembly process. <i>Langmuir</i> , 2013 , 29, 15762-9	4	5
85	Design of new HDPE/silica nanocomposite and its enhanced melt strength. <i>Rheologica Acta</i> , 2012 , 51, 143-150	2.3	7
84	Rheological characteristics of poly(ethylene oxide) aqueous solutions under large amplitude oscillatory squeeze flow 2012 , 24, 257-266		5
83	Rheological characterization of poly(ethylene oxide) aqueous solution under dynamic helical squeeze flow 2012 , 24, 267-275		1

82	Model prediction of non-symmetric normal stresses under oscillatory squeeze flow. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 1010-1018	2.8	5
81	Optimization of Experimental Parameters to Suppress Nozzle Clogging in Inkjet Printing. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13195-13204	3.9	64
80	Liquid crystal order in colloidal suspensions of spheroidal particles by direct current electric field assembly. <i>Small</i> , 2012 , 8, 1551-62	11	58
79	In situ Lubrication Dispersion of Multi-Walled Carbon Nanotubes in Poly(propylene) Melts. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 279-287	3.9	5
78	Nonlinear response of polypropylene (PP)/Clay nanocomposites under dynamic oscillatory shear flow 2012 , 24, 113-120		27
77	The onset of natural convection in a horizontal fluid layer heated isothermally from below. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 1030-1035	4.9	4
76	Self-consistent particle simulation of model-stabilized colloidal suspensions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011 , 166, 1183-1189	2.7	3
75	A review of nonlinear oscillatory shear tests: Analysis and application of large amplitude oscillatory shear (LAOS). <i>Progress in Polymer Science</i> , 2011 , 36, 1697-1753	29.6	852
74	Strain stiffening of non-colloidal hard sphere suspensions dispersed in Newtonian fluid near liquid-and-crystal coexistence region. <i>Rheologica Acta</i> , 2011 , 50, 925-936	2.3	20
73	Effect of local kinematic history on the dynamic self-assembly of droplets in micro-expansion channels 2011 , 23, 119-126		3
72	Morphology and Rheology of Polypropylene/Polystyrene/Clay Nanocomposites in Batch and Continuous Melt Mixing Processes. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 341-348	3.9	36
71	Adsorption-stress relationship in drying of silica/PVA suspensions. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 497-502	9.3	5
70	10.2478/s11814-009-0230-7 2011 , 26, 1441		
69	First normal stress difference of entangled polymer solutions in large amplitude oscillatory shear flow. <i>Journal of Rheology</i> , 2010 , 54, 1243-1266	4.1	26
68	Multilayer deposition on patterned posts using alternating polyelectrolyte droplets in a microfluidic device. <i>Lab on A Chip</i> , 2010 , 10, 1160-6	7.2	15
67	Effect of added ionomer on morphology and properties of PP/organoclay nanocomposites. <i>Korean Journal of Chemical Engineering</i> , 2010 , 27, 705-715	2.8	5
66	Numerical and experimental studies on the viscous folding in diverging microchannels. <i>Microfluidics and Nanofluidics</i> , 2010 , 8, 767-776	2.8	13
65	Droplet dynamics passing through obstructions in confined microchannel flow. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 1151-1163	2.8	41

64	Drying regime maps for particulate coatings. <i>AIChE Journal</i> , 2010 , 56, 2769-2780	3.6	99
63	The effect of adsorption kinetics on film formation of silica/PVA suspension. <i>Journal of Colloid and Interface Science</i> , 2010 , 344, 308-14	9.3	13
62	Effect of slurry preparation process on electrochemical performances of LiCoO ₂ composite electrode. <i>Journal of Power Sources</i> , 2010 , 195, 6049-6054	8.9	125
61	The importance of downstream events in microfluidic viscoelastic entry flows: Consequences of increasing the constriction length. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010 , 165, 1189-1203	2.7	33
60	Rheology and morphology of poly(trimethylene terephthalate)/ethylene propylene diene monomer blends in the presence and absence of a reactive compatibilizer. <i>Polymer Engineering and Science</i> , 2010 , 50, 1945-1955	2.3	13
59	Multiple Representation of Linear Dielectric Response. <i>Nihon Reoroji Gakkaishi</i> , 2010 , 38, 149-155	0.8	5
58	Evaluation of jet performance in drop-on-demand (DOD) inkjet printing. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 339-348	2.8	40
57	Thermal instability of a fluid layer when cooled isothermally from above. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 1441-1446	2.8	
56	Parametric study of blade tip clearance, flow rate, and impeller speed on blood damage in rotary blood pump. <i>Artificial Organs</i> , 2009 , 33, 468-74	2.6	19
55	Numerical study on the dynamics of droplet passing through a cylinder obstruction in confined microchannel flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009 , 162, 38-44	2.7	19
54	Effect of viscoelasticity on drop dynamics in 5:1:5 contraction/expansion microchannel flow. <i>Chemical Engineering Science</i> , 2009 , 64, 4515-4524	4.4	20
53	A study on reaction-induced miscibility of poly(trimethylene terephthalate)/polycarbonate blends. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 1569-78	3.4	28
52	Drying of the silica/PVA suspension: effect of suspension microstructure. <i>Langmuir</i> , 2009 , 25, 6155-61	4	41
51	Rheology, Morphology, Mechanical Properties and Free Volume of Poly(trimethylene terephthalate)/Polycarbonate Blends. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9942-9951	2.9	28
50	Analysis of the Normal Stress Differences of Viscoelastic Fluids under Large Amplitude Oscillatory Shear Flow. <i>AIP Conference Proceedings</i> , 2008 ,	0	3
49	Effect of electric currents on bacterial detachment and inactivation. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 379-86	4.9	114
48	Shear-induced migration of nanoclay during morphology evolution of PBT/PS blend. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 565-575	2.9	40
47	Prediction of normal stresses under large amplitude oscillatory shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008 , 150, 1-10	2.7	46

46	Numerical study on the effect of viscoelasticity on drop deformation in simple shear and 5:1:5 planar contraction/expansion microchannel. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008 , 155, 80-93 ²⁻⁷	32
45	Surface properties of silica nanoparticles modified with polymers for polymer nanocomposite applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2008 , 14, 515-519	6.3 94
44	Viscoelastic and Dielectric Behavior of a Polyisoprene/Poly(4-tert-butyl styrene) Miscible Blend. <i>Macromolecules</i> , 2007 , 40, 5389-5399	5.5 27
43	Controlling the hydrophobicity of submicrometer silica spheres via surface modification for nanocomposite applications. <i>Langmuir</i> , 2007 , 23, 7799-803	4 51
42	Effect of ionomer on clay dispersions in polypropylene-layered silicate nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 4024-4034	2.9 15
41	Interfacial tension reduction in PBT/PE/clay nanocomposite. <i>Rheologica Acta</i> , 2007 , 46, 469-478	2.3 146
40	Rheological behavior of polymer/layered silicate nanocomposites under uniaxial extensional flow. <i>Macromolecular Research</i> , 2006 , 14, 318-323	1.9 30
39	A Novel Fabrication Method for Poly(propylene)/Clay Nanocomposites by Continuous Processing. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1127-1135	3.9 20
38	The role of organically modified layered silicate in the breakup and coalescence of droplets in PBT/PE blends. <i>Polymer</i> , 2006 , 47, 3967-3975	3.9 227
37	Time-Electric field superposition in electrically activated polypropylene/layered silicate nanocomposites. <i>Polymer</i> , 2006 , 47, 5145-5153	3.9 26
36	Microstructural evolution of electrically activated polypropylene/layered silicate nanocomposites investigated by in situ synchrotron wide-angle X-ray scattering and dielectric relaxation analysis. <i>Polymer</i> , 2006 , 47, 5938-5945	3.9 20
35	Large amplitude oscillatory shear behavior of PEO-PPO-PEO triblock copolymer solutions. <i>Rheologica Acta</i> , 2006 , 45, 239-249	2.3 146
34	Melt rheology of long-chain-branched polypropylenes. <i>Rheologica Acta</i> , 2006 , 46, 33-44	2.3 72
33	Degree of branching of polypropylene measured from Fourier-transform rheology. <i>Rheologica Acta</i> , 2006 , 46, 123-129	2.3 45
32	High-resolution finite element simulation of 4:1 planar contraction flow of viscoelastic fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005 , 129, 23-37	2.7 54
31	Morphology-rheology relationship in hyaluronate/poly(vinyl alcohol)/borax polymer blends. <i>Polymer</i> , 2005 , 46, 7156-7163	3.9 17
30	Morphology development of PBT/PE blends during extrusion and its reflection on the rheological properties. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1702-1709	2.9 20
29	Strain hardening behavior of polymer blends with fibril morphology. <i>Rheologica Acta</i> , 2005 , 45, 202-208	2.3 26

28	Negative wake generation of FENE-CR fluids in uniform and Poiseuille flows past a cylinder. <i>Rheologica Acta</i> , 2005 , 44, 600-613	2.3	12
27	Time-Weissenberg Number Superposition in 4:1 Planar Contraction Flow of a Viscoelastic Fluid. <i>Nihon Reoroji Gakkaishi</i> , 2005 , 33, 191-197	0.8	5
26	An Iterative Nonlinear Mapping Method for the Relaxation Time Distribution. <i>Nihon Reoroji Gakkaishi</i> , 2004 , 32, 139-144	0.8	1
25	Electrophoresis of a bead-rod chain through a narrow slit: a Brownian dynamics study. <i>Journal of Chemical Physics</i> , 2004 , 121, 9116-22	3.9	11
24	Universality of linear viscoelasticity of monodisperse linear polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 2730-2737	2.6	8
23	Simple method for determining the critical molecular weight from the loss modulus. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 2724-2729	2.6	13
22	An efficient iterative solver and high-resolution computations of the Oldroyd-B fluid flow past a confined cylinder. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004 , 123, 161-173	2.7	33
21	Influence of solvent contents on the rubber-phase particle size distribution of high-impact polystyrene. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 3672-3679	2.9	15
20	Large amplitude oscillatory shear behavior of complex fluids investigated by a network model: a guideline for classification. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2003 , 112, 237-250	2.7	137
19	Three-dimensional viscoelastic simulation of coextrusion process: comparison with experimental data. <i>Rheologica Acta</i> , 2002 , 41, 144-153	2.3	9
18	Large amplitude oscillatory shear as a way to classify the complex fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002 , 107, 51-65	2.7	544
17	Effect of graft ratio on the dynamic moduli of acrylonitrile-butadiene-styrene copolymer. <i>Polymer Engineering and Science</i> , 2002 , 42, 605-610	2.3	3
16	Numerical simulation of three-dimensional viscoelastic flow using the open boundary condition method in coextrusion process. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2001 , 99, 125-144	2.7	27
15	Weldline morphology of injection molded modified poly(phenylene-oxide)/polyamide-6 blends. <i>Polymer Engineering and Science</i> , 2001 , 41, 554-565	2.3	7
14	Numerical simulation of moving free surface problems in polymer processing using volume-of-fluid method. <i>Polymer Engineering and Science</i> , 2001 , 41, 858-866	2.3	13
13	Effects of the degree of graft on the tensile and dynamic behavior of high impact polystyrene. <i>Polymer</i> , 2000 , 41, 5229-5235	3.9	31
12	Morphology of injection molded modified poly(phenylene oxide)/polyamide-6 blends. <i>Polymer Engineering and Science</i> , 2000 , 40, 1376-1384	2.3	27
11	Effect of processing conditions and reactive compatibilizer on the morphology of injection molded modified poly(phenylene oxide)/polyamide-6 blends. <i>Polymer Engineering and Science</i> , 2000 , 40, 1385-1394	2.3	25

10	Three-dimensional simulation of thermoforming process and its comparison with experiments. <i>Polymer Engineering and Science</i> , 2000 , 40, 2232-2240	2.3	37
9	Mechanism of void growth in the partial frame process. <i>Polymer Engineering and Science</i> , 1998 , 38, 1708-1715	2.3	1
8	Mechanism of shear thickening investigated by a network model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1995 , 56, 267-288	2.7	29
7	A network model for predicting the shear thickening behavior of a poly (vinyl alcohol)/sodium borate aqueous solution. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1994 , 55, 215-227	2.7	41
6	Shear and normal stresses of a poly(vinyl alcohol)/sodium borate aqueous solution at the start of shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1994 , 54, 109-120	2.7	20
5	Bead-spring chain model for the dynamics of dilute polymer solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1993 , 50, 349-373	2.7	9
4	Bead-spring chain model for the dynamics of dilute polymer solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1992 , 43, 143-164	2.7	7
3	Drying mechanism of monodisperse colloidal film: Evolution of normal stress and its correlation with microstructure. <i>AIChE Journal</i> , e17400	3.6	1
2	A coarse-grained particle simulation on the capillary suspension and its rheological properties under the simple shear flow. <i>Rheologica Acta</i> , 1	2.3	
1	Variation of the Electrical Conductivity of PLA-based Composites with a Hybrid of Graphene and Carbon Black During 3D Printing. <i>Macromolecular Materials and Engineering</i> , 2200145	3.9	