# Norman J Wagner

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 329 papers | 17,255 citations | 12330 69 h-index | 20961 115 g-index |
| 339 all docs | 339 docs citations | 339 times ranked | 11723 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Thixotropy. Advances in Colloid and Interface Science, 2009, 147-148, 214-227. | 14.7 | 824 |
| 2 | Shear thickening in colloidal dispersions. Physics Today, 2009, 62, 27-32. | 0.3 | 756 |
| 3 | Title is missing!. Journal of Materials Science, 2003, 38, 2825-2833. | 3.7 | 709 |
| 4 | Reversible shear thickening in monodisperse and bidisperse colloidal dispersions. Journal of Rheology, 1996, 40, 899-916. | 2.6 | 419 |
| 5 | Stab resistance of shear thickening fluid (STF)-treated fabrics. Composites Science and Technology, 2007, 67, 565-578. | 7.8 | 362 |
| 6 | The effects of particle size on reversible shear thickening of concentrated colloidal dispersions. Journal of Chemical Physics, 2001, 114, 10514-10527. | 3.0 | 324 |
| 7 | Electrosteric Stabilization of Colloidal Dispersions. Langmuir, 2002, 18, 6381-6390. | 3.5 | 306 |
| 8 | The Microstructure and Rheology of Mixed Cationic/Anionic Wormlike Micelles. Langmuir, 2003, 19, 4079-4089. | 3.5 | 283 |
| 9 | Dynamic properties of shear thickening colloidal suspensions. Rheologica Acta, 2003, 42, 199-208. | 2.4 | 277 |
| 10 | The effects of interparticle interactions and particle size on reversible shear thickening: Hard-sphere colloidal dispersions. Journal of Rheology, 2001, 45, 1205-1222. | 2.6 | 274 |
| 11 | Optical Measurement of the Contributions of Colloidal Forces to the Rheology of Concentrated Suspensions. Journal of Colloid and Interface Science, 1995, 172, 171-184. | 9.4 | 258 |
| 12 | Flow-small angle neutron scattering measurements of colloidal dispersion microstructure evolution through the shear thickening transition. Journal of Chemical Physics, 2002, 117, 10291-10302. | 3.0 | 256 |
| 13 | Macromolecular diffusion and release from self-assembled Î²-hairpin peptide hydrogels. Biomaterials, 2009, 30, 1339-1347. | 11.4 | 212 |
| 14 | The rheology and microstructure of acicular precipitated calcium carbonate colloidal suspensions through the shear thickening transition. Journal of Rheology, 2005, 49, 719-746. | 2.6 | 166 |
| 15 | Effect of Particle Hardness on the Penetration Behavior of Fabrics Intercalated with Dry Particles and Concentrated Particleâ^'Fluid Suspensions. ACS Applied Materials & Interfaces, 2009, 1, 2602-2612. | 8.0 | 161 |
| 16 | The effect of protein structure on their controlled release from an injectable peptide hydrogel. Biomaterials, 2010, 31, 9527-9534. | 11.4 | 157 |
| 17 | Observation of Small Cluster Formation in Concentrated Monoclonal Antibody Solutions and Its Implications to Solution Viscosity. Biophysical Journal, 2014, 106, 1763-1770. | 0.5 | 146 |
| 18 | Dynamical Arrest Transition in Nanoparticle Dispersions with Short-Range Interactions. Physical Review Letters, 2011, 106, 105704. | 7.8 | 140 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Yarn Pull-Out as a Mechanism for Dissipating Ballistic Impact Energy in KevlarÂ® KM-2 Fabric. Textile Reseach Journal, 2004, 74, 920-928. | 2.2 | 134 |
| 20 | Atomistic simulation of water and salt transport in the reverse osmosis membrane FT-30. Journal of Membrane Science, 1998, 139, 1-16. | 8.2 | 133 |
| 21 | Large amplitude oscillatory shear (LAOS) measurements to obtain constitutive equation model parameters: Giesekus model of banding and nonbanding wormlike micelles. Journal of Rheology, 2012, 56, 333-351. | 2.6 | 132 |
| 22 | Viscosimetric, Hydrodynamic, and Conformational Properties of Dendrimers and Dendrons. Macromolecules, 2001, 34, 8580-8585. | 4.8 | 131 |
| 23 | Rheology and spatially resolved structure of cetyltrimethylammonium bromide wormlike micelles through the shear banding transition. Journal of Rheology, 2009, 53, 727-756. | 2.6 | 127 |
| 24 | Formation of AOT/Brine Multilamellar Vesicles. Langmuir, 1996, 12, 3122-3126. | 3.5 | 120 |
| 25 | Formation and Rheology of Viscoelastic â€œDouble Networksâ€•in Wormlike Micelleâˆ'Nanoparticle Mixtures. Langmuir, 2010, 26, 8049-8060. | 3.5 | 119 |
| 26 | Influence of Nanoparticle Addition on the Properties of Wormlike Micellar Solutions. Langmuir, 2008, 24, 7718-7726. | 3.5 | 117 |
| 27 | Microstructure of shear-thickening concentrated suspensions determined by flow-USANS. Rheologica Acta, 2009, 48, 897-908. | 2.4 | 116 |
| 28 | Rheology of branched wormlike micelles. Current Opinion in Colloid and Interface Science, 2014, 19, 530-535. | 7.4 | 115 |
| 29 | Effects of pairwise versus many-body forces on high-stress plastic deformation. Physical Review A, 1991, 43, 2655-2661. | 2.5 | 110 |
| 30 | Agglomeration and breakage of nanoparticles in stirred media millsâ€"a comparison of different methods and models. Chemical Engineering Science, 2006, 61, 135-148. | 3.8 | 110 |
| 31 | Current trends in suspension rheology. Journal of Non-Newtonian Fluid Mechanics, 2009, 157, 147-150. | 2.4 | 106 |
| 32 | Small-Angle Neutron Scattering Characterization of Monoclonal Antibody Conformations and Interactions at High Concentrations. Biophysical Journal, 2013, 105, 720-731. | 0.5 | 106 |
| 33 | Grand canonical Brownian dynamics simulation of colloidal adsorption. Journal of Chemical Physics, 1997, 107, 9157-9167. | 3.0 | 103 |
| 34 | Generalized phase behavior of cluster formation in colloidal dispersions with competing interactions. Soft Matter, 2014, 10, 5061-5071. | 2.7 | 103 |
| 35 | Material properties of the shear-thickened state in concentrated near hard-sphere colloidal dispersions. Journal of Rheology, 2014, 58, 949-967. | 2.6 | 102 |
| 36 | Viscoelasticity and shear melting of colloidal star polymer glasses. Journal of Rheology, 2007, 51, 297-316. | 2.6 | 101 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Dynamical Arrest, Percolation, Gelation, and Glass Formation in Model Nanoparticle Dispersions with Thermoreversible Adhesive Interactions. Langmuir, 2012, 28, 1866-1878. | 3.5 | 100 |
| 38 | Dynamic shear rheology of a thixotropic suspension: Comparison of an improved structure-based model with large amplitude oscillatory shear experiments. Journal of Rheology, 2016, 60, 433-450. | 2.6 | 99 |
| 39 | Plasmon Resonance Measurements of the Adsorption and Adsorption Kinetics of a Biopolymer onto Gold Nanocolloids. Langmuir, 2001, 17, 957-960. | 3.5 | 98 |
| 40 | Theory and kinematic measurements of the mechanics of stable electrospun polymer jets. Polymer, 2008, 49, 2924-2936. | 3.8 | 98 |
| 41 | The Effect of Rheological Parameters on the Ballistic Properties of Shear Thickening Fluid (STF)-Kevlar Composites. AIP Conference Proceedings, 2004, , . | 0.4 | 96 |
| 42 | Effect of Hierarchical Cluster Formation on the Viscosity of Concentrated Monoclonal Antibody Formulations Studied by Neutron Scattering. Journal of Physical Chemistry B, 2016, 120, 278-291. | 2.6 | 94 |
| 43 | Rheology of region I flow in a lyotropic liquidâ€crystal polymer: The effects of defect texture. Journal of Rheology, 1994, 38, 1525-1547. | 2.6 | 92 |
| 44 | Rheological Properties and Small-Angle Neutron Scattering of a Shear Thickening, Nanoparticle Dispersion at High Shear Rates. Industrial & Engineering Chemistry Research, 2006, 45, 7015-7024. | 3.7 | 92 |
| 45 | One- and two-dimensional assembly of colloidal ellipsoids in ac electric fields. Physical Review E, 2009, 79, 050401. | 2.1 | 89 |
| 46 | Phase Behavior and Molecular Thermodynamics of Coacervation in Oppositely Charged Polyelectrolyte/Surfactant Systems: A Cationic Polymer JR 400 and Anionic Surfactant SDS Mixture. Langmuir, 2012, 28, 10348-10362. | 3.5 | 89 |
| 47 | Yarn Pull-Out as a Mechanism for Dissipating Ballistic Impact Energy in KevlarÂ® KM-2 Fabric. Textile Reseach Journal, 2004, 74, 939-948. | 2.2 | 88 |
| 48 | Hydrodynamic and Colloidal Interactions in Concentrated Charge-Stabilized Polymer Dispersions. Journal of Colloid and Interface Science, 2000, 225, 166-178. | 9.4 | 86 |
| 49 | Shear-Induced Phase Separation in Solutions of Wormlike Micelles. Langmuir, 2004, 20, 3564-3573. | 3.5 | 86 |
| 50 | Relating shear banding, structure, and phase behavior in wormlike micellar solutions. Soft Matter, 2009, 5, 3858. | 2.7 | 86 |
| 51 | Molecular Dynamics Simulation of Penetrant Diffusion in Amorphous Polypropylene:Â Diffusion Mechanisms and Simulation Size Effects. Macromolecules, 1999, 32, 5017-5028. | 4.8 | 85 |
| 52 | Molecular-dynamics simulations of two-dimensional materials at high strain rates. Physical Review A, 1992, 45, 8457-8470. | 2.5 | 82 |
| 53 | Electrolyte-Induced Aggregation of Acrylic Latex. 1. Dilute Particle Concentrations. Langmuir, 2001, 17, 3136-3147. | 3.5 | 82 |
| 54 | Nonequilibrium statistical mechanics of concentrated colloidal dispersions: Hard spheres in weak flows with many-body thermodynamic interactions. Physica A: Statistical Mechanics and Its Applications, 1989, 155, 475-518. | 2.6 | 81 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Viscosity, Microstructure, and Interparticle Potential of AOT/H2O/n-Decane Inverse Microemulsions. Langmuir, 1995, 11, 1559-1570. | 3.5 | 81 |
| 56 | The microstructure and rheology of a model, thixotropic nanoparticle gel under steady shear and large amplitude oscillatory shear (LAOS). Journal of Rheology, 2014, 58, 1301-1328. | 2.6 | 80 |
| 57 | Molecular dynamics simulation study of the mechanisms of water diffusion in a hydrated, amorphous polyamide. Computational and Theoretical Polymer Science, 1999, 9, 301-306. | 1.1 | 78 |
| 58 | Self-Aggregation of Mixtures of Oppositely Charged Polyelectrolytes and Surfactants Studied by Rheology, Dynamic Light Scattering and Small-Angle Neutron Scattering. Langmuir, 2011, 27, 4386-4396. | 3.5 | 78 |
| 59 | Colloidal Stabilization by Adsorbed Gelatin. Langmuir, 2000, 16, 4100-4108. | 3.5 | 77 |
| 60 | Adsorption and Diffusion of Molecular Nitrogen in Single Wall Carbon Nanotubes. Langmuir, 2004, 20, 6268-6277. | 3.5 | 77 |
| 61 | Dynamic Bonds in Covalently Crosslinked Polymer Networks for Photoactivated Strengthening and Healing. Advanced Materials, 2015, 27, 8007-8010. | 21.0 | 76 |
| 62 | The use of a niobia-silica surface phase oxide in studying and varying metal-support interactions in supported nickel catalysts. Journal of Catalysis, 1985, 95, 260-270. | 6.2 | 75 |
| 63 | Microstructure and rheology relationships for shear thickening colloidal dispersions. Journal of Fluid Mechanics, 2015, 769, 242-276. | 3.4 | 74 |
| 64 | The rheology of highly concentrated PBLG solutions. Journal of Rheology, 1995, 39, 925-952. | 2.6 | 73 |
| 65 | Building Large Amorphous Polymer Structures:Â Atomistic Simulation of Glassy Polystyrene. Macromolecules, 1996, 29, 8497-8506. | 4.8 | 73 |
| 66 | Characterizing complex fluids with high frequency rheology using torsional resonators at multiple frequencies. Journal of Rheology, 2003, 47, 303-319. | 2.6 | 73 |
| 67 | Rheology, selfâ€diffusion, and microstructure of charged colloids under simple shear by massively parallel nonequilibrium Brownian dynamics. Journal of Chemical Physics, 1996, 104, 9234-9248. | 3.0 | 72 |
| 68 | Fast Dynamics of Semiflexible Chain Networks of Self-Assembled Peptides. Biomacromolecules, 2009, 10, 1374-1380. | 5.4 | 72 |
| 69 | The microstructure of polydisperse, charged colloidal suspensions by light and neutron scattering. Journal of Chemical Physics, 1991, 95, 494-508. | 3.0 | 71 |
| 70 | Microphase Separation of Hybrid Dendronâ^'Linear Diblock Copolymers into Ordered Structures. Macromolecules, 2002, 35, 8391-8399. | 4.8 | 69 |
| 71 | Spatially resolved small-angle neutron scattering in the 1-2 plane: A study of shear-induced phase-separating wormlike micelles. Physical Review E, 2006, 73, 020504. | 2.1 | 69 |
| 72 | Crystallization of alpha-lactose monohydrate in a drop-based microfluidic crystallizer. Chemical Engineering Science, 2007, 62, 4802-4810. | 3.8 | 68 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Investigating the transient response of a shear thickening fluid using the split Hopkinson pressure bar technique. Rheologica Acta, 2010, 49, 879-890. | 2.4 | 68 |
| 74 | Microstructure and rheology of soft to rigid shear-thickening colloidal suspensions. Journal of Rheology, 2015, 59, 1377-1395. | 2.6 | 68 |
| 75 | A systematic study of equilibrium structure, thermodynamics, and rheology of aqueous CTAB/NaNO3 wormlike micelles. Journal of Colloid and Interface Science, 2010, 349, 1-12. | 9.4 | 67 |
| 76 | Intermediate range order and structure in colloidal dispersions with competing interactions. Journal of Chemical Physics, 2013, 139, 154904. | 3.0 | 66 |
| 77 | Ethane hydrogenolysis and carbon monoxide hydrogenation over niobia-supported nickel catalysts: A hierarchy to rank strong metal-support interaction. Journal of Catalysis, 1984, 86, 315-327. | 6.2 | 65 |
| 78 | SANS Analysis of the Molecular Order in Poly(Î³-benzyll-glutamate)/Deuterated Dimethylformamide (PBLG/d-DMF) under Shear and during Relaxation. Macromolecules, 1996, 29, 2298-2301. | 4.8 | 63 |
| 79 | Microstructure and shear rheology of entangled wormlike micelles in solution. Journal of Rheology, 2009, 53, 441-458. | 2.6 | 63 |
| 80 | Influence of medium viscosity and adsorbed polymer on the reversible shear thickening transition in concentrated colloidal dispersions. Rheologica Acta, 2005, 44, 360-371. | 2.4 | 62 |
| 81 | Creating Nanoparticle Stability in Ionic Liquid [C<sub>4</sub>mim][BF<sub>4</sub>] by Inducing Solvation Layering. ACS Nano, 2015, 9, 3243-3253. | 14.6 | 62 |
| 82 | The viscosity of bimodal and polydisperse suspensions of hard spheres in the dilute limit. Journal of Fluid Mechanics, 1994, 278, 267-287. | 3.4 | 61 |
| 83 | Generalized Doiâ€“Ohta model for multiphase flow developed via generic. AICHE Journal, 1999, 45, 1169-1181. | 3.6 | 61 |
| 84 | The High-Frequency Shear Modulus of Colloidal Suspensions and the Effects of Hydrodynamic Interactions. Journal of Colloid and Interface Science, 1993, 161, 169-181. | 9.4 | 60 |
| 85 | Poly(ethylene oxide) (PEO) and Poly(vinyl pyrolidone) (PVP) Induce Different Changes in the Colloid Stability of Nanoparticles. Langmuir, 2010, 26, 13823-13830. | 3.5 | 60 |
| 86 | Clustering and Percolation in Suspensions of Carbon Black. Langmuir, 2017, 33, 12260-12266. | 3.5 | 59 |
| 87 | Short-Time Glassy Dynamics in Viscous Protein Solutions with Competing Interactions. Physical Review Letters, 2015, 115, 228302. | 7.8 | 58 |
| 88 | Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. Atmospheric Measurement Techniques, 2016, 9, 3063-3093. | 3.1 | 58 |
| 89 | Molecular Simulation of Glassy Polystyrene:Â Size Effects on Gas Solubilities. Macromolecules, 1997, 30, 3058-3065. | 4.8 | 57 |
| 90 | Porous amorphous carbon models from periodic Gaussian chains of amorphous polymers. Carbon, 2005, 43, 3099-3111. | 10.3 | 57 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Divergence in the low shear viscosity for Brownian hard-sphere dispersions: At random close packing or the glass transition?. Journal of Rheology, 2013, 57, 1555-1567. | 2.6 | 57 |
| 92 | Universal Binding Behavior for Ionic Alkyl Surfactants with Oppositely Charged Polyelectrolytes. Journal of the American Chemical Society, 2013, 135, 17547-17555. | 13.7 | 57 |
| 93 | Investigation of blood rheology under steady and unidirectional large amplitude oscillatory shear. Journal of Rheology, 2018, 62, 577-591. | 2.6 | 57 |
| 94 | Light scattering measurements of a hardâ€sphere suspension under shear. Physics of Fluids A, Fluid Dynamics, 1990, 2, 491-502. | 1.6 | 56 |
| 95 | Recent advances in blood rheology: a review. Soft Matter, 2021, 17, 10591-10613. | 2.7 | 54 |
| 96 | Preparation, reduction, and chemisorption behavior of niobia-supported nickel catalysts. Journal of Catalysis, 1983, 84, 85-94. | 6.2 | 53 |
| 97 | Linear viscoelastic master curves of neat and laponite-filled poly(ethylene oxide)â€"water solutions. Rheologica Acta, 2006, 45, 813-824. | 2.4 | 53 |
| 98 | The rheology and microstructure of branched micelles under shear. Journal of Rheology, 2015, 59, 1299-1328. | 2.6 | 53 |
| 99 | Rheo-SANS investigation of acicular-precipitated calcium carbonate colloidal suspensions through the shear thickening transition. Journal of Rheology, 2006, 50, 685-709. | 2.6 | 52 |
| 100 | Dynamical arrest in adhesive hard-sphere dispersions driven by rigidity percolation. Physical Review E, 2013, 88, 060302. | 2.1 | 51 |
| 101 | Measurements of human blood viscoelasticity and thixotropy under steady and transient shear and constitutive modeling thereof. Journal of Rheology, 2019, 63, 799-813. | 2.6 | 51 |
| 102 | Analysis of nonequilibrium structures of shearing colloidal suspensions. Journal of Chemical Physics, 1992, 97, 1473-1483. | 3.0 | 50 |
| 103 | Direct Observation of Flow-Concentration Coupling in a Shear-Banding Fluid. Physical Review Letters, 2010, 105, 084501. | 7.8 | 50 |
| 104 | Spontaneous Thermoreversible Formation of Cationic Vesicles in a Protic Ionic Liquid. Journal of the American Chemical Society, 2012, 134, 20728-20732. | 13.7 | 50 |
| 105 | Relationship between short-time self-diffusion and high-frequency viscosity in charge-stabilized dispersions. Physical Review E, 1998, 58, R4088-R4091. | 2.1 | 48 |
| 106 | Dynamics of Melting and Recrystallization in a Polymeric Micellar Crystal Subjected to Large Amplitude Oscillatory Shear Flow. Physical Review Letters, 2012, 108, 258301. | 7.8 | 48 |
| 107 | Influence of End Groups on Dendrimer Rheology and Conformation. Macromolecules, 2003, 36, 4619-4623. | 4.8 | 47 |
| 108 | Shear thickening in polymer stabilized colloidal dispersions. Journal of Rheology, 2005, 49, 1347-1360. | 2.6 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Engineering enhanced cut and puncture resistance into the thermal micrometeoroid garment (TMG) using shear thickening fluid (STF)Ââ€“ÂArmorâ„¢ absorber layers. Composites Science and Technology, 2016, 131, 61-66. | 7.8 | 47 |
| 110 | Neutron scattering in the biological sciences: progress and prospects. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1129-1168. | 2.3 | 47 |
| 111 | In SituAnalysis of the Defect Texture in Liquid Crystal Polymer Solutions under Shear. Macromolecules, 1997, 30, 508-514. | 4.8 | 46 |
| 112 | Colloidal Charge Determination in Concentrated Liquid Dispersions Using Torsional Resonance Oscillation. Journal of Colloid and Interface Science, 1998, 202, 430-440. | 9.4 | 46 |
| 113 | Hydrodynamic shear thickening of particulate suspension under confinement. Journal of Non-Newtonian Fluid Mechanics, 2014, 213, 39-49. | 2.4 | 46 |
| 114 | Structure and rheology of hyperbranched and dendritic polymers. I. Modification and characterization of poly(propyleneimine) dendrimers with acetyl groups. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 857-873. | 2.1 | 44 |
| 115 | Triblock Copolymer Self-Assembly in Ionic Liquids: Effect of PEO Block Length on the Self-Assembly of PEOâ€“PPOâ€“PEO in Ethylammonium Nitrate. Macromolecules, 2014, 47, 7484-7495. | 4.8 | 44 |
| 116 | Photodirected Formation and Control of Wrinkles on a Thiolâ€“ene Elastomer. ACS Macro Letters, 2013, 2, 474-477. | 4.8 | 43 |
| 117 | Gel Transition in Adhesive Hard-Sphere Colloidal Dispersions: The Role of Gravitational Effects. Physical Review Letters, 2013, 110, 208302. | 7.8 | 43 |
| 118 | Shear viscosity and structural scalings in model adhesive hard-sphere gels. Physical Review E, 2014, 89, 050302. | 2.1 | 43 |
| 119 | The dichroism and birefringence of a hardâ€sphere suspension under shear. Journal of Chemical Physics, 1988, 89, 1580-1587. | 3.0 | 42 |
| 120 | Structural investigations of poly(amido amine) dendrimers in methanol using molecular dynamics. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 3062-3077. | 2.1 | 42 |
| 121 | Radiohybridization PET imaging of KRAS G12D mRNA expression in human pancreas cancer xenografts with [64Cu]DO3A-peptide nucleic acid-peptide nanoparticles. Cancer Biology and Therapy, 2007, 6, 948-956. | 3.4 | 42 |
| 122 | Structure-property relationships of sheared carbon black suspensions determined by simultaneous rheological and neutron scattering measurements. Journal of Rheology, 2019, 63, 423-436. | 2.6 | 42 |
| 123 | Toward Rational Design of Protein Detergent Complexes: Determinants of Mixed Micelles That Are Critical for the InÂVitro Stabilization of a G-Protein Coupled Receptor. Biophysical Journal, 2011, 101, 1938-1948. | 0.5 | 41 |
| 124 | Water Nanocluster Formation in the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate ([C<sub>4</sub>mim][BF<sub>4</sub>])â€“D<sub>2</sub>O Mixtures. Langmuir, 2016, 32, 5078-5084. | 3.5 | 41 |
| 125 | A correlation for the diameter of electrospun polymer nanofibers. AICHE Journal, 2007, 53, 51-55. | 3.6 | 40 |
| 126 | The Huggins Coefficient for the Square-Well Colloidal Fluid. Industrial & Engineering Chemistry Research, 1994, 33, 2391-2397. | 3.7 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Structure and Extent of Adsorbed Gelatin on Acrylic Latex and Polystyrene Colloidal Particles. Journal of Colloid and Interface Science, 1998, 205, 131-140. | 9.4 | 39 |
| 128 | The Morphology and Composition of Cholesterol-Rich Micellar Nanostructures Determine Transmembrane Protein (GPCR) Activity. Biophysical Journal, 2011, 100, L11-L13. | 0.5 | 39 |
| 129 | Spatiotemporal stress and structure evolution in dynamically sheared polymer-like micellar solutions. Soft Matter, 2014, 10, 2889-2898. | 2.7 | 39 |
| 130 | The rheology and microstructure of an aging thermoreversible colloidal gel. Journal of Rheology, 2017, 61, 23-34. | 2.6 | 39 |
| 131 | Fast Dynamics of Wormlike Micellar Solutions. Langmuir, 2007, 23, 5267-5269. | 3.5 | 38 |
| 132 | The Role of Nanoscale Forces in Colloid Dispersion Rheology. MRS Bulletin, 2004, 29, 100-106. | 3.5 | 37 |
| 133 | Microstructural evolution of a model, shear-banding micellar solution during shear startup and cessation. Physical Review E, 2014, 89, 042301. | 2.1 | 37 |
| 134 | Multilamellar Vesicle Formation from a Planar Lamellar Phase under Shear Flow. Langmuir, 2014, 30, 8316-8325. | 3.5 | 37 |
| 135 | Formation of a Highly Ordered Colloidal Microstructure upon Flow Cessation from High Shear Rates. Physical Review Letters, 1996, 77, 2117-2120. | 7.8 | 35 |
| 136 | Influence of Polymer Motion, Topology and Simulation Size on Penetrant Diffusion in Amorphous, Glassy Polymers:Â Diffusion of Helium in Polypropylene. Macromolecules, 2001, 34, 6107-6116. | 4.8 | 35 |
| 137 | Colloidal diffusion and hydrodynamic screening near boundaries. Soft Matter, 2011, 7, 6844. | 2.7 | 35 |
| 138 | Structural Transitions of CTAB Micelles in a Protic Ionic Liquid. Langmuir, 2012, 28, 12722-12730. | 3.5 | 35 |
| 139 | Microstructure and rheology of polydisperse, charged suspensions. Journal of Chemical Physics, 1996, 104, 9249-9258. | 3.0 | 34 |
| 140 | An adaptive parallel tempering method for the dynamic dataâ€driven parameter estimation of nonlinear models. AICHE Journal, 2017, 63, 1937-1958. | 3.6 | 34 |
| 141 | Electrospinning of neat and laponite-filled aqueous poly(ethylene oxide) solutions. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1608-1617. | 2.1 | 33 |
| 142 | Layering, melting, and recrystallization of a close-packed micellar crystal under steady and large-amplitude oscillatory shear flows. Journal of Rheology, 2015, 59, 793-820. | 2.6 | 33 |
| 143 | Structure-rheology relationship for a homogeneous colloidal gel under shear startup. Journal of Rheology, 2017, 61, 117-137. | 2.6 | 33 |
| 144 | High frequency rheology of hard sphere colloidal dispersions measured with a torsional resonator. Journal of Non-Newtonian Fluid Mechanics, 2002, 102, 149-156. | 2.4 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | On the importance of thermodynamic self-consistency for calculating clusterlike pair correlations in hard-core double Yukawa fluids. Journal of Chemical Physics, 2011, 134, 064904. | 3.0 | 32 |
| 146 | Rheology of cubic particles suspended in a Newtonian fluid. Soft Matter, 2016, 12, 4654-4665. | 2.7 | 32 |
| 147 | Microstructure of neat and SBS modified asphalt binder by small-angle neutron scattering. Fuel, 2019, 253, 1589-1596. | 6.4 | 31 |
| 148 | Micellar Morphology of Polysorbate 20 and 80 and Their Ester Fractions in Solution via Small-Angle Neutron Scattering. Journal of Pharmaceutical Sciences, 2020, 109, 1498-1508. | 3.3 | 31 |
| 149 | Rheo-optics. Current Opinion in Colloid and Interface Science, 1998, 3, 391-400. | 7.4 | 30 |
| 150 | Directed self-assembly of suspensions by large amplitude oscillatory shear flow. Journal of Rheology, 2009, 53, 575-588. | 2.6 | 30 |
| 151 | An experimental investigation into the kinematics of a concentrated hard-sphere colloidal suspension during Hopkinson bar evaluation at high stresses. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1342-1350. | 2.4 | 29 |
| 152 | A constitutive equation for thixotropic suspensions with yield stress by coarseâ€graining a population balance model. AICHE Journal, 2017, 63, 517-531. | 3.6 | 29 |
| 153 | STAB RESISTANCE OF SHEAR THICKENING FLUID (STF)â€"KEVLAR COMPOSITES FOR BODY ARMOR APPLICATIONS. , 2006, , . | | 29 |
| 154 | Rheology of non-Brownian particles suspended in concentrated colloidal dispersions at low particle Reynolds number. Journal of Rheology, 2016, 60, 47-59. | 2.6 | 28 |
| 155 | Thermoreversible Gels Composed of Colloidal Silica Rods with Short-Range Attractions. Langmuir, 2016, 32, 8424-8435. | 3.5 | 28 |
| 156 | Dynamic shear rheology and structure kinetics modeling of a thixotropic carbon black suspension. Rheologica Acta, 2017, 56, 811-824. | 2.4 | 28 |
| 157 | Fundamentals of aggregation in concentrated dispersions: Fiber-optic quasielastic light scattering and linear viscoelastic measurements. Faraday Discussions, 2003, 123, 369-383. | 3.2 | 27 |
| 158 | Temperature-Dependent Nanostructure of an End-Tethered Octadecane Brush in Tetradecane and Nanoparticle Phase Behavior. Langmuir, 2010, 26, 3003-3007. | 3.5 | 27 |
| 159 | Sponge-to-Lamellar Transition in a Double-Tail Cationic Surfactant/Protic Ionic Liquid System: Structural and Rheological Analysis. Journal of Physical Chemistry B, 2012, 116, 813-822. | 2.6 | 27 |
| 160 | Modeling the effects of polydispersity on the viscosity of noncolloidal hard sphere suspensions. Journal of Rheology, 2016, 60, 225-240. | 2.6 | 27 |
| 161 | Iono-Elastomer-Based Wearable Strain Sensor with Real-Time Thermomechanical Dual Response. ACS Applied Materials & Interfaces, 2018, 10, 32435-32443. | 8.0 | 27 |
| 162 | Effects of ex vivo aging and storage temperature on blood viscosity. Clinical Hemorheology and Microcirculation, 2018, 70, 155-172. | 1.7 | 27 |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 163 | Competitive Surface Activity of Monoclonal Antibodies and Nonionic Surfactants at the Airâ€"Water Interface Determined by Interfacial Rheology and Neutron Reflectometry. Langmuir, 2020, 36, 7814-7823. | 3.5 | 27 |
| 164 | The rheology and microstructure of charged colloidal suspensions. Colloid and Polymer Science, 1991, 269, 295-319. | 2.1 | 26 |
| 165 | Effect of Gravity on Colloidal Deposition Studied by Atomic Force Microscopy. Journal of Colloid and Interface Science, 2001, 240, 9-16. | 9.4 | 26 |
| 166 | E-FiRST: Electric field responsive shear thickening fluids. Rheologica Acta, 2003, 42, 287-294. | 2.4 | 26 |
| 167 | The influence of weak attractive forces on the microstructure and rheology of colloidal dispersions. Journal of Rheology, 2005, 49, 475-499. | 2.6 | 26 |
| 168 | Calorimetric Study of the Adsorption of Poly(ethylene oxide) and Poly(vinyl pyrrolidone) onto Cationic Nanoparticles. Langmuir, 2010, 26, 6262-6267. | 3.5 | 26 |
| 169 | Surface Charge of 3-(Trimethoxysilyl) Propyl Methacrylate (TPM) Coated StÃ¶ber Silica Colloids by Zeta-Phase Analysis Light Scattering and Small Angle Neutron Scattering. Langmuir, 2000, 16, 10556-10558. | 3.5 | 25 |
| 170 | Superposition rheology. Physical Review E, 2001, 63, 021406. | 2.1 | 25 |
| 171 | Shear-induced phase separation (SIPS) with shear banding in solutions of cationic surfactant and salt. Journal of Rheology, 2011, 55, 1375-1397. | 2.6 | 25 |
| 172 | An improved method for analyzing isothermal titration calorimetry data from oppositely charged surfactant polyelectrolyte mixtures. Journal of Chemical Thermodynamics, 2014, 68, 48-52. | 2.0 | 25 |
| 173 | The medium amplitude oscillatory shear of semi-dilute colloidal dispersions. Part I: Linear response and normal stress differences. Journal of Rheology, 2014, 58, 307-337. | 2.6 | 25 |
| 174 | MMOD Puncture Resistance of EVA Suits with Shear Thickening Fluid (STF) â€" Armortm Absorber Layers. Procedia Engineering, 2015, 103, 97-104. | 1.2 | 25 |
| 175 | Validation of constitutive modeling of shear banding, threadlike wormlike micellar fluids. Journal of Rheology, 2016, 60, 983-999. | 2.6 | 25 |
| 176 | Synthetic control of the size, shape, and polydispersity of anisotropic silica colloids. Journal of Colloid and Interface Science, 2017, 501, 45-53. | 9.4 | 25 |
| 177 | Short-time dynamics of lysozyme solutions with competing short-range attraction and long-range repulsion: Experiment and theory. Journal of Chemical Physics, 2018, 148, 065101. | 3.0 | 25 |
| 178 | The role of liquid-crystalline polymer rheology on the evolving morphology of immiscible blends containing liquid-crystalline polymers. Journal of Rheology, 1999, 43, 521-549. | 2.6 | 24 |
| 179 | Spatially Resolved Concentration and Segmental Flow Alignment in a Shear-Banding Solution of Polymer-Like Micelles. ACS Macro Letters, 2014, 3, 276-280. | 4.8 | 24 |
| 180 | Thermodynamic properties and rheology of sterically stabilized colloidal dispersions. Rheologica Acta, 2000, 39, 483-494. | 2.4 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Physiologically Based Pharmacokinetics of Molecular Imaging Nanoparticles for mRNA Detection Determined in Tumor-Bearing Mice. Oligonucleotides, 2010, 20, 117-125. | 2.7 | 23 |
| 182 | Two-Dimensional Directed Assembly of Dicolloids. Langmuir, 2013, 29, 75-81. | 3.5 | 23 |
| 183 | Understanding steady and dynamic shear banding in a model wormlike micellar solution. Journal of Rheology, 2016, 60, 1001-1017. | 2.6 | 23 |
| 184 | Self-Assembly of Pluronic F127 Diacrylate in Ethylammonium Nitrate: Structure, Rheology, and Ionic Conductivity before and after Photo-Cross-Linking. Macromolecules, 2016, 49, 5179-5189. | 4.8 | 23 |
| 185 | An optimized protocol for the analysis of time-resolved elastic scattering experiments. Soft Matter, 2016, 12, 2301-2308. | 2.7 | 23 |
| 186 | Experimental test of a frictional contact model for shear thickening in concentrated colloidal suspensions. Journal of Rheology, 2020, 64, 267-282. | 2.6 | 23 |
| 187 | Microstructure and rheology of shear-thickening colloidal suspensions with varying interparticle friction: Comparison of experiment with theory and simulation models. Physics of Fluids, 2021, 33, . | 4.0 | 23 |
| 188 | A Monte Carlo simulation study of the effect of carbon topology on nitrogen adsorption on graphite, a nanotube bundle, C60 fullerite, C168 schwarzite, and a nanoporous carbon. Physical Chemistry Chemical Physics, 2004, 6, 4440. | 2.8 | 22 |
| 189 | A critical examination of the decoupling approximation for small-angle scattering from hard ellipsoids of revolution. Journal of Applied Crystallography, 2016, 49, 1734-1739. | 4.5 | 22 |
| 190 | Non-ideal viscosity and excess molar volume of mixtures of 1-butyl-3-methylimidazolium tetrafluoroborate ([C 4 mim][BF 4 ]) with water. Journal of Molecular Liquids, 2016, 223, 678-686. | 4.9 | 22 |
| 191 | Adsorption of polysorbate 20 and proteins on hydrophobic polystyrene surfaces studied by neutron reflectometry. Colloids and Surfaces B: Biointerfaces, 2018, 168, 94-102. | 5.0 | 22 |
| 192 | Comparison of small shear flow rateâ€"small wave vector static structure factor data with theory. Journal of Chemical Physics, 1989, 90, 3250-3253. | 3.0 | 21 |
| 193 | Self-consistent solution for the generalized hydrodynamics model of suspension dynamics: Comparison of theory with rheological and optical measurements. Physical Review E, 1994, 49, 376-401. | 2.1 | 21 |
| 194 | Formation of Multilamellar Vesicles by Oscillatory Shear. Langmuir, 2003, 19, 8709-8714. | 3.5 | 21 |
| 195 | Nonlinear rheological behavior of bitumen under LAOS stress. Journal of Rheology, 2018, 62, 975-989. | 2.6 | 21 |
| 196 | Adsorption of non-ionic surfactant and monoclonal antibody on siliconized surface studied by neutron reflectometry. Journal of Colloid and Interface Science, 2021, 584, 429-438. | 9.4 | 21 |
| 197 | Comparison of lunar and Martian regolith simulant-based geopolymer cements formed by alkali-activation for in-situ resource utilization. Advances in Space Research, 2022, 69, 761-777. | 2.6 | 21 |
| 198 | Colloidal interactions mediated by end-adsorbing polymer-like micelles. Journal of Chemical Physics, 2011, 135, 084901. | 3.0 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Ultrastretchable Iono-Elastomers with Mechanoelectrical Response. ACS Macro Letters, 2016, 5, 1332-1338. | 4.8 | 20 |
| 200 | Detecting Branching in Wormlike Micelles via Dynamic Scattering Methods. ACS Macro Letters, 2018, 7, 614-618. | 4.8 | 20 |
| 201 | Directed self-assembly of colloidal crystals by dielectrophoretic ordering observed with small angle neutron scattering (SANS). Soft Matter, 2010, 6, 5443. | 2.7 | 19 |
| 202 | Directed Self-Assembly of Colloidal Crystals by Dielectrophoretic Ordering. Langmuir, 2012, 28, 4123-4130. | 3.5 | 19 |
| 203 | Thermal rheology and microstructure of shear thickening suspensions of silica nanoparticles dispersed in the ionic liquid [C<sub>4</sub>mim][BF<sub>4</sub>]. Journal of Rheology, 2017, 61, 525-535. | 2.6 | 19 |
| 204 | Control of Rheological Behaviour with Oppositely Charged Polyelectrolyte Surfactant Mixtures. Tenside, Surfactants, Detergents, 2011, 48, 488-494. | 1.2 | 19 |
| 205 | A rheological and morphological study of a copolyester liquid crystal/polypropylene blend system. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 2433-2445. | 2.1 | 18 |
| 206 | Gelatin Adsorption at the Air/Water Interface As Investigated by X-ray Reflectivity. Langmuir, 1999, 15, 4685-4689. | 3.5 | 18 |
| 207 | Design of (Gdâ€DO3A)<sub><i>n</i></sub>â€polydiamidopropanoylâ€peptide nucleic acidâ€<scp>D</scp>(Cysâ€Serâ€Lysâ€Cys) magnetic resonance contrast agents. Biopolymers, 2008, 89, 1061-1076. | 2.4 | 18 |
| 208 | Solvent isotope effect on the microstructure and rheology of cationic worm-like micelles near the isotropic-nematic transition. Soft Matter, 2011, 7, 10856. | 2.7 | 18 |
| 209 | Force-induced cleavage of a labile bond for enhanced mechanochemical crosslinking. Polymer Chemistry, 2017, 8, 6485-6489. | 3.9 | 18 |
| 210 | Direct measurements of the microstructural origin of shear-thinning in carbon black suspensions. Journal of Rheology, 2021, 65, 145. | 2.6 | 18 |
| 211 | Determination of the Texture Viscosity and Elasticity of a Nematic PBLG/d-DMF Solution through Magnetic Field Alignment. Macromolecules, 1994, 27, 5979-5986. | 4.8 | 17 |
| 212 | Accurate simulation of linear viscoelastic properties by variance reduction through the use of control variates. Journal of Rheology, 1997, 41, 757-768. | 2.6 | 17 |
| 213 | Correlation of the minor-phase orientation to the flow-induced morphological transitions in thermotropic liquid crystalline polymer/PBT blends. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 1769-1780. | 2.1 | 17 |
| 214 | Structure and rheology of hyperbranched and dendritic polymers. II. Effects of blending acetylated and hydroxy-terminated poly(propyleneimine) dendrimers with aqueous poly(ethylene oxide) solutions. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 874-882. | 2.1 | 17 |
| 215 | Measuring Material Microstructure Under Flow Using 1-2 Plane Flow-Small Angle Neutron Scattering. Journal of Visualized Experiments, 2014, , e51068. | 0.3 | 17 |
| 216 | On the macroscopic modelling of dilute emulsions under flow. Journal of Fluid Mechanics, 2017, 831, 433-473. | 3.4 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Heteroflocculation of binary latex dispersions of similar chemistry but varying size. Journal of Colloid and Interface Science, 2003, 268, 380-393. | 9.4 | 16 |
| 218 | The shear viscosity of polyampholyte (gelatin) stabilized colloidal dispersions. Journal of Colloid and Interface Science, 2004, 280, 264-275. | 9.4 | 16 |
| 219 | A strain-controlled RheoSANS instrument for the measurement of the microstructural, electrical, and mechanical properties of soft materials. Review of Scientific Instruments, 2017, 88, 105115. | 1.3 | 16 |
| 220 | Activity and selectivity of a niobia (Nb2O5)-supported nickel catalyst in CO hydrogenation. Journal of the Chemical Society Chemical Communications, 1983, , 94. | 2.0 | 15 |
| 221 | Numerical simulations of eccentricity and end effects in falling ball rheometry. Journal of Rheology, 1989, 33, 1107-1128. | 2.6 | 15 |
| 222 | Structure of Isotropic Solutions of Rigid Macromolecules via Small-Angle Neutron Scattering: Poly(.gamma.-benzyl L-glutamate)/Deuterated Dimethylformamide. Macromolecules, 1995, 28, 5075-5081. | 4.8 | 15 |
| 223 | Polyampholyte Gelatin Adsorption to Colloidal Latex:â€‰ pH and Electrolyte Effects on Acrylic and Polystyrene Latices. Biomacromolecules, 2000, 1, 466-472. | 5.4 | 15 |
| 224 | Rheology of polyampholyte (gelatin)-stabilized colloidal dispersions: The tertiary electroviscous effect. Journal of Rheology, 2001, 45, 451-466. | 2.6 | 15 |
| 225 | Uptake, efflux, and mass transfer coefficient of fluorescent PAMAM dendrimers into pancreatic cancer cells. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 294-301. | 2.6 | 15 |
| 226 | The Use of Shear Thickening Nanocomposites in Impact Resistant Materials. Journal of Biomechanical Engineering, 2015, 137, 054504. | 1.3 | 15 |
| 227 | Planar channel flow of a discontinuous shear-thickening model fluid: Theory and simulation. Physics of Fluids, 2017, 29, . | 4.0 | 15 |
| 228 | Tensorial formulations for improved thixotropic viscoelastic modeling of human blood. Journal of Rheology, 2022, 66, 327-347. | 2.6 | 15 |
| 229 | The Smoluchowski equation for colloidal suspensions developed and analyzed through the GENERIC formalism. Journal of Non-Newtonian Fluid Mechanics, 2001, 96, 177-201. | 2.4 | 14 |
| 230 | Phenomenological modeling of the response of a dense colloidal suspension under dynamic squeezing flow. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 680-688. | 2.4 | 14 |
| 231 | Nanovesicle formation and microstructure in aqueous ditallowethylesterdimethylammonium chloride (DEEDMAC) solutions. Journal of Colloid and Interface Science, 2014, 429, 17-24. | 9.4 | 14 |
| 232 | Local Crystalline Structure in an Amorphous Protein Dense Phase. Biophysical Journal, 2015, 109, 1716-1723. | 0.5 | 14 |
| 233 | Modeling the viscosity of polydisperse suspensions: Improvements in prediction of limiting behavior. Physics of Fluids, 2016, 28, . | 4.0 | 14 |
| 234 | Structure-property relationships and state behavior of alkali-activated aluminosilicate gels. Cement and Concrete Research, 2022, 151, 106618. | 11.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Transient Viscosity and Molecular Order of a Thermotropic Polyester LCP in Uniaxial Elongational Flow. Macromolecules, 1999, 32, 1159-1166. | 4.8 | 13 |
| 236 | Effects of Resin Architecture and Protein Size on Nanoscale Protein Distribution in Ion-Exchange Media. Langmuir, 2018, 34, 673-684. | 3.5 | 13 |
| 237 | Branching and alignment in reverse worm-like micelles studied with simultaneous dielectric spectroscopy and RheoSANS. Soft Matter, 2018, 14, 5344-5355. | 2.7 | 13 |
| 238 | Application of population balance-based thixotropic model to human blood. Journal of Non-Newtonian Fluid Mechanics, 2020, 281, 104294. | 2.4 | 13 |
| 239 | Development of an in situ rheological method to characterize fatty acid crystallization in complex fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 388, 12-20. | 4.7 | 12 |
| 240 | Characterization of Proteinâ€“Excipient Microheterogeneity in Biopharmaceutical Solid-State Formulations by Confocal Fluorescence Microscopy. Molecular Pharmaceutics, 2017, 14, 546-553. | 4.6 | 12 |
| 241 | Dynamic properties of different liquid states in systems with competing interactions studied with lysozyme solutions. Soft Matter, 2018, 14, 8570-8579. | 2.7 | 12 |
| 242 | A comparative study of blood rheology across species. Soft Matter, 2021, 17, 4766-4774. | 2.7 | 12 |
| 243 | Characterization of lysozyme adsorption in cellulosic chromatographic materials using small-angle neutron scattering. Journal of Chromatography A, 2015, 1399, 45-52. | 3.7 | 11 |
| 244 | Normal lubrication force between spherical particles immersed in a shear-thickening fluid. Physics of Fluids, 2018, 30, 123102. | 4.0 | 11 |
| 245 | Rheology of Colloidal Glasses and Gels. , 2021, , 173-226. | | 11 |
| 246 | Self-diffusion in dispersions of charged colloidal spheres by generalized hydrodynamics. Physica A: Statistical Mechanics and Its Applications, 1997, 235, 34-47. | 2.6 | 10 |
| 247 | Poly(propylene imine) dendrimers as plasticizers for polyvinyl chloride. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1970-1975. | 2.1 | 10 |
| 248 | Evidence of metalâ€“support interaction for an Ni/TiO2â€“SiO2catalyst. Journal of the Chemical Society Chemical Communications, 1984, , 1274-1275. | 2.0 | 9 |
| 249 | Dielectric RheoSANS — Simultaneous Interrogation of Impedance, Rheology and Small Angle Neutron Scattering of Complex Fluids. Journal of Visualized Experiments, 2017, , . | 0.3 | 9 |
| 250 | Ultra-Stretchable Conductive Iono-Elastomer And Motion Strain Sensor System Developed Therefrom. Technology and Innovation, 2018, 19, 613-626. | 0.2 | 9 |
| 251 | Dynamic arrest of adhesive hard rod dispersions. Soft Matter, 2020, 16, 1279-1286. | 2.7 | 9 |
| 252 | Telescoping Fast Multipole Methods Using Chebyshev Economization. Journal of Computational Physics, 1995, 122, 317-322. | 3.8 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Letter to the editor: Comment on â€œEffect of attractions on shear thickening in dense suspensionsâ€• [J. Rheology 48, 1321 (2004)]. Journal of Rheology, 2005, 49, 799-803. | 2.6 | 8 |
| 254 | Modeling the crystallization of proteins and small organic molecules in nanoliter drops. AICHE Journal, 2010, 56, 79-91. | 3.6 | 8 |
| 255 | Thixotropy. , 2011, , 228-251. | | 8 |
| 256 | Influence of Surfactants on the Rheology and Stability of Crystallizing Fatty Acid Pastes. JAOCS, Journal of the American Oil Chemists' Society, 2013, 90, 273-283. | 1.9 | 8 |
| 257 | Mixed Ionic/Electronic Conducting Surface Layers Adsorbed on Colloidal Silica for Flow Battery Applications. ACS Applied Materials & Interfaces, 2016, 8, 24089-24096. | 8.0 | 8 |
| 258 | In Situ Characterization of the Microstructural Evolution of Biopharmaceutical Solid-State Formulations with Implications for Protein Stability. Molecular Pharmaceutics, 2019, 16, 173-183. | 4.6 | 8 |
| 259 | Molecular engineering of thixotropic, sprayable fluids with yield stress using associating polysaccharides. Journal of Colloid and Interface Science, 2020, 580, 264-274. | 9.4 | 8 |
| 260 | Effects of Particle Hardness on Shear Thickening Colloidal Suspension Rheology. AIP Conference Proceedings, 2008, , . | 0.4 | 7 |
| 261 | The medium amplitude oscillatory shear of semidilute colloidal dispersions. Part II: Third harmonic stress contribution. Journal of Rheology, 2016, 60, 241-255. | 2.6 | 7 |
| 262 | Experimental investigation of the dielectric properties of soil under hydraulic loading. Measurement Science and Technology, 2017, 28, 044001. | 2.6 | 7 |
| 263 | On the macroscopic modeling of dilute emulsions under flow in the presence of particle inertia. Physics of Fluids, 2018, 30, . | 4.0 | 7 |
| 264 | Relating chemical composition, structure, and rheology in alkaliâ€activated aluminosilicate gels. Journal of the American Ceramic Society, 2021, 104, 572-583. | 3.8 | 7 |
| 265 | Lubricant Effects on Articular Cartilage Sliding Biomechanics Under Physiological Fluid Load Support. Tribology Letters, 2021, 69, 1. | 2.6 | 7 |
| 266 | The future of suspension rheophysics: comments on the 2008 workshop. Rheologica Acta, 2009, 48, 827-829. | 2.4 | 6 |
| 267 | EFFECTS OF INTERMOLECULAR INTERACTIONS AND MOLECULAR ORIENTATION ON THE FLUX BEHAVIOR OF XANTHAN GUM SOLUTIONS DURING ULTRAFILTRATION. Journal of Food Process Engineering, 2009, 32, 623-644. | 2.9 | 6 |
| 268 | Introduction to colloid science and rheology. , 2011, , 1-35. | | 6 |
| 269 | Grand canonical Monte Carlo simulation of adsorption of nitrogen and oxygen in realistic nanoporous carbon models. AICHE Journal, 2011, 57, 1496-1505. | 3.6 | 6 |
| 270 | Dynamic infrared sample controlled (DISCO) temperature for the tumbler cellsÂ for ultra small angle neutron scatteringÂ (USANS). Journal of Neutron Research, 2017, 19, 23-26. | 1.1 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Charge and Size Polydispersity Effects on the Scattering Properties and the High-Frequency Elasticity of Colloids. Materials Research Society Symposia Proceedings, 1989, 177, 219. | 0.1 | 5 |
| 272 | Thermodynamic self-consistency criterion in the mixed integral equation theory of liquid structure. Physical Review E, 1996, 53, 2968-2971. | 2.1 | 5 |
| 273 | UNIFAC-FV Applied to Dendritic Macromolecules in Solution:â€‰ Comment on â€œVaporâ˘'Liquid Equilibria for Dendritic-Polymer Solutionsâ€•(Lieu, J. G.; Liu, M.; FrÃ©chet, J. M. J.; Prausnitz, J. M.J. Chem. Eng. Data1999,44,) Tj ETQq1 1 0.784314 rg | 1.9 | 5 |
| 274 | Phase behavior of hybrid dendron-linear copolymers and blends with linear homopolymer. Comptes Rendus Chimie, 2003, 6, 853-864. | 0.5 | 5 |
| 275 | Characterization of Cationic Polyelectrolytes Adsorption to an Anionic Emulsion via Zetaâ€Potential and Microcalorimetry. Journal of Surfactants and Detergents, 2014, 17, 655-667. | 2.1 | 5 |
| 276 | Self-Assembly of Block Copolymers in Ionic Liquids. ACS Symposium Series, 2017, , 83-142. | 0.5 | 5 |
| 277 | Comicellization of Binary PEOâ€"PPOâ€"PEO Triblock Copolymer Mixtures in Ethylammonium Nitrate. Macromolecules, 2018, 51, 1453-1461. | 4.8 | 5 |
| 278 | Surface Chemical Functionalization of Wrinkled Thiolâ€"Ene Elastomers for Promoting Cellular Alignment. ACS Applied Bio Materials, 2020, 3, 3731-3740. | 4.6 | 5 |
| 279 | Structural and rheological aging in model attraction-driven glasses by Rheo-SANS. Soft Matter, 2021, 17, 924-935. | 2.7 | 5 |
| 280 | Preservative Induced Polysorbate 80 Micelle Aggregation. Journal of Pharmaceutical Sciences, 2021, 110, 2395-2404. | 3.3 | 5 |
| 281 | A Thermodynamically Consistent, Microscopically-Based, Model of the Rheology of Aggregating Particles Suspensions. Entropy, 2022, 24, 717. | 2.2 | 5 |
| 282 | Anomalous rheological aging of a model thermoreversible colloidal gel following a thermal quench. Journal of Chemical Physics, 2022, 157, . | 3.0 | 5 |
| 283 | Massively Parallel Molecular Dynamics Simulations of Two-dimensional Materials at High Strain Rates. Materials Research Society Symposia Proceedings, 1992, 291, 91. | 0.1 | 4 |
| 284 | Quantitative predictions of suspension rheology by nonequilibrium Brownian dynamics and hydrodynamic preaveraging. Journal of Rheology, 1997, 41, 893-899. | 2.6 | 4 |
| 285 | Indirect Fourier Transform and Model Fitting of Small Angle Neutron Scattering from Silica Nanoparticles. Particle and Particle Systems Characterization, 2010, 27, 89-99. | 2.3 | 4 |
| 286 | Comment on "Evaluation of Shear-Thickening-Fluid Kevlar for Large-Fragment-Containment Applications". Journal of Aircraft, 2012, 49, 671-673. | 2.4 | 4 |
| 287 | TDNMR characterization of a model crystallizing surfactant system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 406, 13-23. | 4.7 | 4 |
| 288 | An experimental study of multimodal glass suspension rheology to test and validate a polydisperse suspension viscosity model. Rheologica Acta, 2017, 56, 995-1006. | 2.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Data-Driven Development of Predictive Models for Sustained Drug Release. Journal of Pharmaceutical Sciences, 2019, 108, 3582-3591. | 3.3 | 4 |
| 290 | On the macroscopic modeling of the rheology and Ostwald ripening of dilute stabilized emulsions. Physics of Fluids, 2019, 31, 021206. | 4.0 | 4 |
| 291 | One-step, in situ jamming point measurements by immobilization cell rheometry. Rheologica Acta, 2020, 59, 209-225. | 2.4 | 4 |
| 292 | Hemorheology. , 2021, , 316-351. | | 4 |
| 293 | Microstructure of continuous shear thickening colloidal suspensions determined by rheo-VSANS and rheo-USANS. Soft Matter, 2022, 18, 4325-4337. | 2.7 | 4 |
| 294 | The birefringence of shearing colloidal suspensions. Journal of Chemical Physics, 1991, 94, 6931-6932. | 3.0 | 3 |
| 295 | Non-spherical particles. , 2011, , 155-179. | | 3 |
| 296 | Short-time diffusivity of dicolloids. Physical Review E, 2014, 89, 062311. | 2.1 | 3 |
| 297 | Rapid and controlled photo-induced thiolâ€"ene wrinkle formation via flowcoating. Materials Horizons, 2018, 5, 514-520. | 12.2 | 3 |
| 298 | Mechanisms of precipitate formation during the purification of an Fcâ€fusion protein. Biotechnology and Bioengineering, 2018, 115, 2489-2503. | 3.3 | 3 |
| 299 | Suspensions of Soft Colloidal Particles. , 2021, , 227-290. | | 3 |
| 300 | Design of PLGA-Based Drug Delivery Systems Using a Physically-Based Sustained Release Model. Journal of Pharmaceutical Sciences, 2022, 111, 345-357. | 3.3 | 3 |
| 301 | A Direct Observation Video Method for Describing COVID-19 Transmission Factors on a Micro-Geographical Scale: Viral Transmission (VT)-Scan. International Journal of Environmental Research and Public Health, 2021, 18, 9329. | 2.6 | 3 |
| 302 | Massively parallel non-equilibrium Brownian Dynamics simulations for complex fluids: the rheology of Brownian suspensions. Computers and Chemical Engineering, 1995, 19, 693-718. | 3.8 | 3 |
| 303 | How colloidal dispersions relax under stress. Physics Magazine, 0, 1, . | 0.1 | 2 |
| 304 | Methods of Colloidal Simulation. , 2021, , 120-154. | | 2 |
| 305 | Rheological Behavior for Î±-1,3-Glucan Derived from Enzymatic Polymerization of Sucrose. ACS Food Science & Technology, 2022, 2, 240-248. | 2.7 | 2 |
| 306 | Direct Observation of COVID-19 Prevention Behaviors and Physical Activity in Public Open Spaces. International Journal of Environmental Research and Public Health, 2022, 19, 1335. | 2.6 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Aggregation Kinetics of Polysorbate 80/m-Cresol Solutions: A Small-Angle Neutron Scattering Study. Molecular Pharmaceutics, 2022, , . | 4.6 | 2 |
| 308 | Flux-based modeling of heat and mass transfer in multicomponent systems. Physics of Fluids, 2022, 34, . | 4.0 | 2 |
| 309 | A parallel algorithm for Lees-Edwards boundary conditions. Parallel Computing, 1996, 22, 895-901. | 2.1 | 1 |
| 310 | Hydrodynamic effects. , 2011, , 36-79. | | 1 |
| 311 | Theory of Colloidal Suspension Structure, Dynamics, and Rheology. , 2021, , 44-119. | | 1 |
| 312 | Introduction to Colloidal Suspension Rheology. , 2021, , 1-43. | | 1 |
| 313 | Microstructure under Flow. , 2021, , 155-172. | | 1 |
| 314 | Structure and rheology of hyperbranched and dendritic polymers. I. Modification and characterization of poly(propyleneimine) dendrimers with acetyl groups. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 857. | 2.1 | 1 |
| 315 | Nanocrystalline protein domains via salting-out. Acta Crystallographica Section F, Structural Biology Communications, 2021, 77, 412-419. | 0.8 | 1 |
| 316 | Rheological and Optical Properties of Shearing Colloidal Suspensions by Polarized Light Spectroscopy. Materials Research Society Symposia Proceedings, 1991, 248, 269. | 0.1 | 0 |
| 317 | Shear Thinning Properties of Dense Suspensions: Rheology and Flow Dichroism. Materials Research Society Symposia Proceedings, 1992, 289, 81. | 0.1 | 0 |
| 318 | Guest Editorial: Proceedings of the Boston Symposia on Experimental Techniques. Journal of Rheology, 1994, 38, 1069-1069. | 2.6 | 0 |
| 319 | Spatially-resolved microstructure in shear banding wormlike micellar solutions. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 320 | Brownian hard spheres. , 0, , 80-121. | | 0 |
| 321 | Stable systems. , 0, , 122-154. | | 0 |
| 322 | Colloidal attractions and flocculated dispersions. , 0, , 180-227. | | 0 |
| 323 | Shear thickening. , 0, , 252-290. | | 0 |
| 324 | The 8th American Conference on Neutron Scattering. Neutron News, 2016, 27, 4-10. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Editorial Overview: Nanotechnology. Current Opinion in Chemical Engineering, 2017, 16, i-ii. | 7.8 | 0 |
| 326 | Waiting-time distributions of particle entrapments in clustered states generated by short-range attractive, long-range repulsive (SALR) interactions. Europhysics Letters, 2019, 126, 38002. | 2.0 | 0 |
| 327 | Understanding the Protection Mechanism of Non-Ionic Surfactants in mAb Formulations Using Neutron Scattering. Neutron News, 0, , 1-2. | 0.2 | 0 |
| 328 | Predictions for the Viscoelasticity of Dispersions of Charged, Brownian Spheres through Generalized Hydrodynamics. , 1992, , 634-636. | | 0 |
| 329 | Rheokinetic modeling of N-A-Sâ€"H gel formation related to alkali-activated aluminosilicate materials. Rheologica Acta, 0, , . | 2.4 | 0 |