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## Discontinuous shear thickening of frictional hard-sphere suspensions

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474	A Less Invasive Approach to Rheology Measurements. <b>2013</b> , 6,		6
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471	Viscosity of bimodal suspensions with hard spherical particles. <b>2014</b> , 116, 184902		14
470	Rheology near jamming: the influence of lubrication forces. <i>Physical Review E</i> , <b>2014</b> , 89, 052308	2.4	11
469	Avalanche contribution to shear modulus of granular materials. <i>Physical Review E</i> , <b>2014</b> , 90, 042202	2.4	30
468	Tunable rheology of dense soft deformable colloids. <b>2014</b> , 19, 561-574		152
467	Shear jamming in granular experiments without basal friction. <b>2014</b> , 107, 34005		25
466	Rheology of sheared suspensions of rough frictional particles. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 757, 514-549	3.7	99
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463	Dynamics of colloidal glasses and gels. <b>2014</b> , 5, 181-202		75
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243	Characterization of Hydrophobically Modified Polyacrylamide in Mixed Polymer-Gemini Surfactant Systems for Enhanced Oil Recovery Application. <b>2019</b> , 4, 20164-20177		16
242	Constitutive Model for Time-Dependent Flows of Shear-Thickening Suspensions. <i>Physical Review Letters</i> , <b>2019</b> , 123, 214504	7.4	10

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233	Saturated granular flows: constitutive modelling under steady simple shear conditions. <b>2020</b> , 70, 608-620		4
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220	Eulerian-Lagrangian simulation of inertial migration of particles in circular Couette flow. <b>2020</b> , 32, 073308		7
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218	Rheology discussions: The physics of dense suspensions. <i>Journal of Rheology</i> , <b>2020</b> , 64, 1501-1524	4.1	4
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215	Comparing the power law constant (n) for mono- and bi-dispersed filled slurries: using percolation theory concepts. <i>Rheologica Acta</i> , <b>2020</b> , 59, 583-599	2.3	3
214	Application of shear thickening fluids in material development. <b>2020</b> , 9, 10411-10433		21
213	A constitutive model for sheared dense suspensions of rough particles. <i>Journal of Rheology</i> , <b>2020</b> , 64, 1107-1120	4.1	5
212	Rheological behavior of concentrated slurry and wet granules for lithium ion battery electrodes. <b>2020</b> , 31, 4491-4499		4
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210	Shear-Induced Heteroaggregation of Oppositely Charged Colloidal Particles. <i>Langmuir</i> , <b>2020</b> , 36, 10739-10749		2
209	Flow-Spurt Transition under Shear Deformation of Concentrated Suspensions. <b>2020</b> , 82, 408-413		
208	Tunable solidification of cornstarch under impact: How to make someone walking on cornstarch sink. <b>2020</b> , 6, eaay6661		3
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203	Apollonian emulsions. <b>2020</b> , 130, 38001		1
202	Lubricated contact model for numerical simulations of suspensions. <i>Powder Technology</i> , <b>2020</b> , 372, 600-610	4.1	1
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200	Modeling stress relaxation in dense, fine-particle suspensions. <i>Journal of Rheology</i> , <b>2020</b> , 64, 367-377	4.1	2
199	Discrete Element Simulation and Validation of a Mixing Process of Granular Materials. <b>2020</b> , 13,		5
198	Shear-driven flow of athermal, frictionless, spherocylinder suspensions in two dimensions: Particle rotations and orientational ordering. <i>Physical Review E</i> , <b>2020</b> , 101, 032901	2.4	4
197	Shear thickening of suspensions of dimeric particles. <i>Journal of Rheology</i> , <b>2020</b> , 64, 239-254	4.1	1
196	Stress fluctuations and shear thickening in dense granular suspensions. <i>Journal of Rheology</i> , <b>2020</b> , 64, 321-328	4.1	7
195	A hydrodynamic model for discontinuous shear-thickening in dense suspensions. <i>Journal of Rheology</i> , <b>2020</b> , 64, 379-394	4.1	12
194	Stress decomposition in LAOS of dense colloidal suspensions. <i>Journal of Rheology</i> , <b>2020</b> , 64, 343-351	4.1	13
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192	Fluctuations at the onset of discontinuous shear thickening in a suspension. <i>Journal of Rheology</i> , <b>2020</b> , 64, 309-319	4.1	8
191	Investigating the nature of discontinuous shear thickening: Beyond a mean-field description. <i>Journal of Rheology</i> , <b>2020</b> , 64, 329-341	4.1	4
190	Shear jamming, discontinuous shear thickening, and fragile states in dry granular materials under oscillatory shear. <i>Physical Review E</i> , <b>2020</b> , 101, 032905	2.4	8
189	Elasticity and plasticity of highly concentrated noncolloidal suspensions under shear. <i>Journal of Rheology</i> , <b>2020</b> , 64, 469-479	4.1	5
188	Roughness induced shear thickening in frictional non-Brownian suspensions: A numerical study. <i>Journal of Rheology</i> , <b>2020</b> , 64, 283-297	4.1	4

187	Shear thickening in dense non-Brownian suspensions: Viscous to inertial transition. <i>Journal of Rheology</i> , <b>2020</b> , 64, 227-238	4.1	5
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185	The Darcytron: A pressure-imposed device to probe the frictional transition in shear-thickening suspensions. <i>Journal of Rheology</i> , <b>2020</b> , 64, 395-403	4.1	5
184	Localized transient jamming in discontinuous shear thickening. <i>Journal of Rheology</i> , <b>2020</b> , 64, 299-308	4.1	15
183	Stability and rheological properties of silica suspensions in water- immiscible liquids. <b>2020</b> , 278, 102139		3
182	Apparent Non-Newtonian Behavior of Ionic Liquids. <b>2020</b> , 124, 2685-2690		7
181	Role of particle orientational order during shear thickening in suspensions of colloidal rods. <i>Physical Review E</i> , <b>2020</b> , 101, 040601	2.4	2
180	Constitutive model for shear-thickening suspensions: Predictions for steady shear with superposed transverse oscillations. <i>Journal of Rheology</i> , <b>2020</b> , 64, 353-365	4.1	5
179	Physical property control for innovative powder processes [Rheological control of concentrated slurry and wet granules. <b>2020</b> , 31, 1784-1788		5
178	Flow-to-fracture transition and pattern formation in a discontinuous shear thickening fluid. <b>2020</b> , 3,		6
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176	Continuous shear thickening and discontinuous shear thickening of concentrated monodispersed silica slurry. <b>2020</b> , 31, 1659-1664		10
175	Relation between structure and stability of toothpaste with two-step yielding. <i>Rheologica Acta</i> , <b>2020</b> , 59, 133-145	2.3	9
174	Density waves in shear-thickening suspensions. <b>2020</b> , 6, eaay5589		9
173	Force chains and networks: wet suspensions through dry granular eyes. <b>2020</b> , 22, 1		4
172	Scaling laws for frictional granular materials confined by constant pressure under oscillatory shear. <i>Physical Review E</i> , <b>2020</b> , 101, 042902	2.4	5
171	Normal stress differences in the consolidation of strong colloidal gels. <i>Rheologica Acta</i> , <b>2021</b> , 60, 59-76	2.3	3
170	Turning a yield-stress calcite suspension into a shear-thickening one by tuning inter-particle friction. <i>Rheologica Acta</i> , <b>2021</b> , 60, 97-106	2.3	6

169	Effect of striker shape on impact energy absorption of a shear thickening fluid. <b>2021</b> , 23, 100560		3
168	The impact of porous walls on the rheology of suspensions. <b>2021</b> , 230, 116178		7
167	Constitutive modeling of time-dependent flows in frictional suspensions. <b>2021</b> , 249, 01002		0
166	Machine learning of lubrication correction based on GPR for the coupled DPD-DEM simulation of colloidal suspensions. <i>Soft Matter</i> , <b>2021</b> , 17, 5682-5699	3.6	2
165	An experimental study on the role of inter-particle friction in the shear-thinning behavior of non-Brownian suspensions. <i>Soft Matter</i> , <b>2021</b> , 17, 6088-6097	3.6	3
164	Relation between dilation and stress fluctuations in discontinuous shear thickening suspensions. <i>Physical Review E</i> , <b>2021</b> , 103, 012603	2.4	2
163	Transients in pressure-imposed shearing of dense granular suspensions. <b>2021</b> , 249, 09009		0
162	Air bubbles play a role in shear thinning of non-colloidal suspensions. <b>2021</b> , 33, 011702		4
161	The role of solvent molecular weight in shear thickening and shear jamming. <i>Soft Matter</i> , <b>2021</b> , 17, 3144-3152	3.6	0
160	Influence of particle shape and sample preparation on shear thickening behavior of precipitated calcium carbonate suspensions. <b>2021</b> , 32, 802-809		1
159	Response and adaptability of composites composed of the STF-treated Kevlar fabric to temperature. <b>2021</b> , 260, 113511		4
158	Exploring the roles of roughness, friction and adhesion in discontinuous shear thickening by means of thermo-responsive particles. <b>2021</b> , 12, 1477		10
157	Altering and eliminating irreversible shear thickening of fumed silica slurries using spherical silica. <i>Rheologica Acta</i> , <b>2021</b> , 60, 251-262	2.3	2
156	Impact-induced hardening in dense frictional suspensions. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	3
155	Microstructure and rheology of shear-thickening colloidal suspensions with varying interparticle friction: Comparison of experiment with theory and simulation models. <b>2021</b> , 33, 033316		7
154	Fluctuations and like-torque clusters at the onset of the discontinuous shear thickening transition in granular materials. <b>2021</b> , 4,		1
153	Surface roughness effect on the shear thinning of non-colloidal suspensions. <b>2021</b> , 33, 043104		4
152	Shear Thickening Behavior of Binary Monodispersed Particle Concentrated Suspension. <b>2021</b> , 58, 170-177		

151	Methods of Colloidal Simulation. <b>2021</b> , 120-154		0
150	Application of hydrodynamic lubrication in discrete element method (DEM) simulations of wet bead milling chambers. <i>Powder Technology</i> , <b>2021</b> , 384, 542-553	5.2	0
149	Shear modulus and reversible particle trajectories of frictional granular materials under oscillatory shear. <b>2021</b> , 44, 70		1
148	Design and Performance Test of a Magnetic Rate Controlled Stage Damper. <b>2021</b> , 8,		1
147	Particle-Level Visualization of Hydrodynamic and Frictional Couplings in Dense Suspensions of Spherical Colloids. <b>2021</b> , 11,		0
146	Characterization of the rheological behaviors and mechanical properties of fabrics impregnated by different shear thickening fluids at changing temperatures.		1
145	Numerical analysis of the drag on a rigid body in an immersed granular flow. 1		1
144	The role of friction in statistics and scaling laws of avalanches. <b>2021</b> , 44, 85		0
143	Getting jammed in all directions: Dynamic shear jamming around a cylinder towed through a dense suspension. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	2
142	Study on strain stiffening of non-colloidal suspension in oscillating shear by a subsequent steady shear test. <b>2021</b> , 618, 126401		2
141	A new pressure sensor array for normal stress measurement in complex fluids. <i>Journal of Rheology</i> , <b>2021</b> , 65, 583-594	4.1	2
140	An exposition of shear thickening fluid treated double and 3D woven fabrics with a new integrity factor for enhanced impact resistance. <b>2021</b> , 270, 114086		1
139	Viscous-like forces control the impact response of shear-thickening dense suspensions. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 923,	3.7	2
138	Effects of electrostatic interaction on rheological behavior and microstructure of concentrated colloidal suspensions. <b>2021</b> , 623, 126576		3
137	Aggregation and breakup of colloidal particle aggregates in shear flow: A combined Monte Carlo - Stokesian dynamics approach. <i>Powder Technology</i> , <b>2021</b> , 388, 357-370	5.2	2
136	Superposed shear and compression of strong colloidal gels. <i>Journal of Rheology</i> , <b>2021</b> , 65, 837-853	4.1	1
135	Viscoelastic response of impact process on dense suspensions. <b>2021</b> , 33, 093110		0
134	Secondary breakup of shear thickening suspension drop. <b>2021</b> , 33, 093103		1

133	Shear Jamming and Fragility of Suspensions in a Continuum Model with Elastic Constraints. <i>Physical Review Letters</i> , <b>2021</b> , 127, 138001	7.4	0
132	A safeguarding and high temperature tolerant organogel electrolyte for flexible solid-state supercapacitors. <b>2021</b> , 505, 230083		3
131	Gel formation and its relaxation mechanism of shear-induced aqueous suspensions comprised of bentonite and heptaethylene oleyl ether. <b>2021</b> , 624, 126786		3
130	Impact characteristics of soft composites using shear thickening fluid and natural rubber—A review of current status. <b>2021</b> , 271, 114092		10
129	Time-dependent homogeneous states of binary granular suspensions. <b>2021</b> , 33, 093315		0
128	A coupled finite volume and material point method for two-phase simulation of liquid–sediment and gas–sediment flows. <b>2021</b> , 384, 113940		1
127	DEM study of the influences of the geometric and operational factors on the mechanical responses of an underwater mixing process. <i>Powder Technology</i> , <b>2021</b> , 392, 251-263	5.2	1
126	Rheology, characteristics, stability, and pH-responsiveness of biosurfactant-stabilized crude oil/water nanoemulsions. <b>2022</b> , 307, 121845		2
125	Cross-linked polymer microparticles with tunable surface properties by the combination of suspension free radical copolymerization and Click chemistry. <b>2022</b> , 607, 1687-1698		0
124	Liquid or solid? a biologically inspired concentrated suspension for protective coating. <b>2022</b> , 428, 131793		4
123	Shear stress dependence of force networks in 3D dense suspensions. <i>Soft Matter</i> , <b>2021</b> , 17, 7476-7486	3.6	1
122	Rotational diffusion and rotational correlations in frictional amorphous disk packings under shear. <i>Soft Matter</i> , <b>2021</b> , 17, 7844-7852	3.6	3
121	Dilatancy of frictional granular materials under oscillatory shear with constant pressure. <b>2021</b> , 249, 02011		
120	Shear-induced aggregation of colloidal particles: A comparison between two different approaches to the modelling of colloidal interactions. <b>2017</b> , 95, 1768-1780		15
119	Advanced Particle-Based Techniques for Complex Fluids and Multiscale Flow Processes. <b>2020</b> , 361-392		2
118	Speed-Controlled Impact into Cornstarch and Water Suspensions. <b>2015</b> , 47-56		2
117	Numerical investigation of the rheological behavior of a dense particle suspension in a biviscous matrix using a lubrication dynamics method. <b>2020</b> , 281, 104312		2
116	Pairwise frictional profile between particles determines discontinuous shear thickening transition in non-colloidal suspensions. <b>2017</b> , 8, 15633		104

115	Surface-wave instability without inertia in shear-thickening suspensions. <b>2020, 3,</b>		1
114	Enhancing shear thickening. <i>Physical Review Fluids</i> , <b>2017, 2,</b>	2.8	24
113	Analog of discontinuous shear thickening flows under confining pressure. <i>Physical Review Fluids</i> , <b>2017, 2,</b>	2.8	17
112	Giant deviation of a relaxation time from generalized Newtonian theory in discontinuous shear thickening suspensions. <i>Physical Review Fluids</i> , <b>2017, 2,</b>	2.8	18
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