

Publications by E.J. Hinch

1. Hinch, E.J. 1970 *The rotation of Venus and thermal tides* W.H.O.I. G.F.D. Notes **2**, 38–54.
2. Schubert, G., Young, R.E. & Hinch, E.J. 1971 *Prograde and retrograde motion in a fluid layer: consequences for thermal diffusion in the Venus atmosphere* J. Geophys. Res. **76**, 2126–2130.
3. Leal, L.G. & Hinch, E.J. 1971 *The effect of weak Brownian rotations on particles in shear flow* J. Fluid Mech. **46**, 685–703.
4. Hinch, E.J. & Schubert, G. 1971 *Strong streaming induced by a moving thermal wave* J. Fluid Mech. **47**, 291–304.
5. Hinch, E.J. & Leal, L.G. 1972 *The effect of Brownian motion on the rheological properties of a suspension of non-spherical particles* J. Fluid Mech. **52**, 683–712.
6. Leal, L.G. & Hinch, E.J. 1972 *A note on the streaming double refraction in a dilute suspension of rigid spheroids subject to weak Brownian rotations* Rheol. Acta **11**, 190–198.
7. Douglas, H.A., Mason, P.J. & Hinch E.J. 1972 *Motion due to a moving internal heat source* J. Fluid Mech. **54**, 469–480.
8. Leal, L.G. & Hinch, E.J. 1972 *The rheology of a suspension of nearly spherical particles subject to Brownian rotations* J. Fluid Mech. **55**, 745–765.
9. Hinch, E.J. 1972 *Note on the symmetries of certain material tensors for a particle in Stokes flow* J. Fluid Mech. **54**, 423–425.
10. Hinch, E.J. & Leal, L.G. 1972 *Note on the rheology of dilute suspensions of dipolar spheres with weak Brownian couples* J. Fluid Mech. **56**, 803–813.
11. Leal, L.G. & Hinch, E.J. 1973 *Theoretical studies of a suspension of rigid particles affected by Brownian couples* Rheol. Acta **12**, 127–132.
12. Hinch, E.J. & Leal, L.G. 1973 *Time-dependent shear flows of a suspension of particles with weak Brownian rotations* J. Fluid Mech. **57**, 753–767.
13. Hinch, E.J. 1974 *Instabilities due to dissipation* Eureka **36**, 17–18.
14. Hinch, E.J. & Ziabicki, A. 1974 *The mechanics of fluid suspensions and polymer solutions: a report on Euromech 49.* J. Fluid Mech. **66**, 1–9.
15. Hinch, E.J. 1974 *Mechanical models of dilute polymer solutions for strong flows with large polymer deformations* in *Polymères et Lubrification* Colloques Internl. du C.N.R.S. **233**, 241–247.
16. Hinch, E.J. 1975 *The mechanics of fluid suspensions* in *Theoretical Rheology* ed. Hutton, J.F., Pearson, J.R.A. & Walters, K. (Applied Science Publishers) 206–223.
17. Bark, F.H., Hinch, E.J. & Landahl, M.T. 1975 *Drag reduction in turbulent flow due to additives: a report on Euromech 52* J. Fluid Mech. **68**, 129–138.
18. Hinch, E.J. 1975 *Mechanical models of dilute polymer solutions in strong flows* in *Polymer Rheology and Plastic Processing* (Plastics & Rubber Institute) 65–71.

19. Hinch, E.J. & Leal, L.G. 1975 *Constitutive equations in suspension mechanics. Part 1. General formulation* J. Fluid Mech. **71**, 481–495.
20. Hinch, E.J. 1975 *Applications of the Langevin equation to fluid suspensions* J. Fluid Mech. **72**, 499–511.
21. Hinch, E.J. 1976 *The distortion of a flexible inextensible thread in shear flow* J. Fluid Mech. **74**, 317–333.
22. Hinch, E.J. 1976 *The deformation of a nearly straight thread in a shearing flow with weak Brownian motions* J. Fluid Mech. **75**, 765–775.
23. Hinch, E.J. & Leal, L.G. 1976 *Constitutive equations in a suspension mechanics. Part 2. Approximate forms for a suspension of rigid particles affected by Brownian rotations* J. Fluid Mech. **76**, 187–208.
24. Hinch, E.J. 1976 *Mechanical models of dilute polymer solutions for strong flows* in *Proc. 7th Internl. Congress on Rheology* 408–410.
25. Russel, W.B., Hinch, E.J., Leal, L.G. & Tieffenbruck, G. 1977 *Rods falling near a vertical wall* J. Fluid Mech. **83**, 273–287.
26. Hinch, E.J. 1977 *Mechanical models of dilute polymer solutions in strong flows* Phys. Fluids **20**, S22–S30.
27. Hinch, E.J. 1977 *An averaged-equation approach to particle interactions in a fluid suspension* J. Fluid Mech. **83**, 695–720.
28. Hinch, E.J. & Acrivos, A. 1979 *Steady long slender droplets in two-dimensional straining motion* J. Fluid Mech. **91**, 401–414.
29. Hinch, E.J. & Leal, L.G. 1979 *Rotation of small non-axisymmetric particles in a simple shear flow* J. Fluid Mech. **92**, 591–608.
30. Hinch, E.J. & Elata, C. 1979 *Heterogeneity of dilute polymer solutions* J. Non-Newtonian Fluid Mech. **5**, 411–425.
31. Hinch, E.J. & Acrivos, A. 1980 *Long slender drops in a simple shear flow* J. Fluid Mech. **98**, 305–328.
32. Acrivos, A., Hinch, E.J. & Jeffrey, D.J. 1980 *Heat transfer to a slowly moving fluid from a dilute fixed bed of heated spheres* J. Fluid Mech. **101**, 403–421.
33. Hinch, E.J. 1980 *The evolution of slender inviscid drops in an axisymmetric straining flow* J. Fluid Mech. **101**, 545–553.
34. Hinch, E.J. 1981 *Electroviscous effects in Continuum Models of Discrete Systems* 4 ed. Brulin, O. & Hsieh, R.K.T. (North Holland) 411–422.
35. Hinch, E.J. & Sherwood, J.D. 1983 *The primary electroviscous effect in a suspension of spheres with thin double layers* J. Fluid Mech. **132**, 337–347.
36. Hocquart, R. & Hinch, E.J. 1983 *The long-time tail of the angular-velocity auto-correlation function for a rigid Brownian particle of arbitrary centrally symmetric shape* J. Fluid Mech. **137**, 217–220.
37. Kojima, M., Hinch, E.J. & Acrivos, A. 1984 *The formation and expansion of a toroidal drop moving in a viscous fluid* Phys. Fluids **27**, 19–32.

38. Hinch, E.J., Sherwood, J.D., Chen, W.C. & Sen, P.N. 1984 *Dielectric response of a dilute suspension of spheres with thin double layers in an asymmetric electrolyte* Faraday Trans. II **80**, 535–551.
39. Hinch, E.J. 1984 *A note on the mechanism of the instability at the interface between two shearing fluids* J. Fluid Mech. **144**, 463–465.
40. Hinch, E.J. 1985 *The recovery of oil from underground reservoirs* in *Theoretical and Applied Mechanics* ed. Niordson, F.I. & Olhoff, N. (Elsevier) 135–161.
41. Hinch, E.J. 1985 *The recovery of oil from underground reservoirs* J. Physico-Chemical Hydrodynamics **6**, 601–622.
42. Davis, R.H., Serayssol, J-M. & Hinch, E.J. 1986 *The elastohydrodynamic collision of two spheres* J. Fluid Mech. **163**, 479–497.
43. Rallison, J.M. & Hinch, E.J. 1986 *The effect of particle interactions on dynamic light scattering from a dilute suspension* J. Fluid Mech. **167**, 131–168.
44. Hinch, E.J. 1985 *Inhibition of a stretching flow of limited force* in *Polymer-Flow Interactions* ed. Rabin, Y. (A.I.P.) 59–69.
45. Rallison, J.M. & Hinch, E.J. 1988 *Do we understand the physics in the constitutive equation* J. Non-Newtonian Fluid Mech. **29**, 37–55.
46. Hinch, E.J. 1988 *Hydrodynamics at low Reynolds number: a brief and elementary introduction* in *Disorder and Mixing* ed. Guyon, E., Nadal J-P. & Pomeau, Y. (Kluwer) N.A.T.O. A.S.I. E, **152**, 43–55.
47. Hinch, E.J. 1988 *Sedimentation of small particles* in *Disorder and Mixing* ed. Guyon, E., Nadal J-P. & Pomeau, Y. (Kluwer) N.A.T.O. A.S.I. E, **152**, 153–161.
48. Hinch, E.J. 1988 *The recovery of oil from underground reservoirs* in *Mathematics in oil production* ed. Edwards, Sir Sam & King, P.R. (O.U.P.) 313–341.
49. Schonberg, J.A. & Hinch, E.J. 1989 *Inertial migration of a sphere in Poiseuille flow* J. Fluid Mech. **203**, 517–524.
50. Hinch, E.J. & Bhatt, B.S. 1990 *Stability of an acid front moving through a porous rock* J. Fluid Mech. **212**, 279–288.
51. Couch, M.C. & Hinch, E.J. 1991 *Sedimentation, aggregation and compaction in Physics of granular media* ed. Bideau, D. & Dodds, J.A. (Nova Sciences Publishers) 299–321.
52. Keiller, R.A. & Hinch, E.J. 1991 *Corner flows of a suspension of rigid rods* J. Non-Newtonian Fluid Mech. **40**, 323–335.
53. Hinch, E.J. 1991 PERTURBATION METHODS book published by C.U.P.
54. Hinch, E.J., Harris, O.J. & Rallison, J.M. 1992 *The instability mechanism for two elastic liquids being co-extruded* J. Non-Newtonian Fluid Mech. **43**, 311–324.
55. Acrivos, A., Batchelor, G.K., Hinch, E.J., Koch, D.L. & Mauri, R. 1992 *Longitudinal shear-induced diffusion of spheres in a dilute suspension* J. Fluid Mech. **240**, 651–657.

56. Harlen, O.G., Hinch, E.J. & Rallison, J.M. 1992 *Birefringent pipes: the steady flow of a dilute polymer solution near a stagnation point* J. Non-Newtonian Fluid Mech. **44**, 229–265.
57. Blanc, R. & Hinch E.J. 1993 *Dense suspensions and loose packings* pages 287–303 in *Disorder and Granular Media* Eds. D. Bideau & A. Hansen (Elsevier)
58. Ippolito, I., Hinch, E.J., Daccord, G. & Hulin, J.P. 1993 *Tracer dispersion in two-dimensional fractures with flat and rough walls in a radial geometry* Phys. Fluids A. **5**, 1952–1962.
59. Hinch, E.J. & Nitche, L.C. 1993 *Nonlinear drift interactions between fluctuating colloid particles: oscillatory and stochastic motions* J. Fluid Mech. **256**, 343–401.
60. Hinch, E.J. 1993 *The approach to steady state in Oseen flows* J. Fluid Mech. **256**, 601–604.
61. Hinch E.J. 1993 *The flow of an Oldroyd fluid around a sharp corner* J. Non-Newtonian Fluid Mech. **50**, 161–171.
62. Hinch, E.J. 1994 *Brownian motion with stiff bonds and rigid constraints* J. Fluid Mech. **271**, 219–234.
63. Kurowski, P., Ippolito, I., Koplik, J., Hinch, E.J. & Hulin, J.P. 1994 *Anomalous dispersion in a dipole flow geometry through a fracture* Phys. Fluids **6**, 108–117.
64. Ippolito, I., Daccord, G., Hinch, E.J. & Hulin, J.P. 1994 *Echo tracer dispersion in model fractures with a rectangular geometry* J. Contaminant Hydrology **16**, 87–108.
65. Hinch, E.J. 1994 *Longwave instability of a free shear layer of an Oldroyd-B fluid* J. Fluid Mech. **268**, 64–68.
66. Hinch, E.J. & Lemaître, J. 1994 *The effect of viscosity on the height of disks floating above an air table* J. Fluid Mech. **273**, 313–322.
67. Hinch, E.J. 1994 *Uncoiling a polymer molecule in a strong extensional flow* J. Non-Newtonian Fluid Mech. **54**, 209–230
68. Koplik, J., Redner, S. & Hinch, E.J. 1994 *Tracer dispersion in planar multipole flows* Phys. Rev. E. **50**, 4650–4671.
69. Grassia, P.S., Hinch, E.J. & Nitsche, L.C. 1995 *Computer simulation of Brownian motion of complex systems* J. Fluid Mech. **282**, 373–403.
70. Nicolai, H., Herzhaft, B., Hinch, E.J., Oger, L. & Guazzelli, E. 1995 *Particle velocity fluctuations and hydrodynamic self-diffusion of sedimenting non-Brownian spheres* Phys. Fluids **7**, 12–23.
71. Rallison, J.M. & Hinch, E.J. 1995 *Instability of a high speed submerged elastic jet* J. Fluid Mech. **288**, 311–324.
72. Hinch, E.J. 1995 *Introduction to Mobile Particulate Systems* in *Mobile Particulate Systems* edited by E. Guazzelli & L. Oger NATO-ASI **E 287**, 1–24. Reproduced as a special edition du journal du G.d.R de P.M.H.C.
73. Grassia, P.S. & Hinch, E.J. 1996 *Computer simulations of polymer chain relaxation via Brownian motion* J. Fluid Mech. **308**, 255–288.

74. Cunha, F.R. & Hinch, E.J. 1996 *Shear-induced dispersion in a dilute suspension of rough spheres* J. Fluid Mech. **309**, 211–223.
75. Ghidaglia, C., de Arcangelis, L., Hinch, E.J. & Guazzelli, E. 1996 *Hydrodynamic interactions in deep bead filtration* Phys. Fluids. **8**, 6–14.
76. Bruneau, D., Feuillebois, F., Anthore, R. & Hinch, E.J. 1996 *Intrinsic convection in a settling suspension* Phys. Fluids. **8**, 2236–2238.
77. Nitsche, L.C. & Hinch, E.J. 1996 *Shear-induced lateral migration of Brownian rigid rods in parabolic channel flow* J. Fluid Mech. **332**, 1–21.
78. Hinch, E.J. 1996 *Converging flows of elastic liquids* in *Proceedings of ICIAM-95* edited by K. Kirchgässner, O. Mährenholtz & R. Mennicken Mathematical Research **87**, 115–133.
79. Loewenberg, M. & Hinch, E.J. 1996 *Numerical simulations of concentrated emulsions* J. Fluid Mech. **321**, 395–419.
80. Kelly, E. & Hinch, E.J. 1998 *Numerical solution of Hele-Shaw flows driven by a quadrupole* E.J. Applied Maths. **8**, 551–566.
81. Ghidaglia, C., de Arcangelis, L., Hinch, E.J. & Guazzelli, E. 1996 *Transition in particle capture in deep bed filtration* Physical Review E **53**, R3028–R3031.
82. Kelly, E. & Hinch, E.J. 1998 *Numerical solutions of sink flows in the Hele Shaw cell with small surface tension* E.J. Applied Maths. **8**, 533–550.
83. Loewenberg, M. & Hinch, E.J. 1997 *Collision of two deformable drops in a sheared emulsion* J. Fluid Mech. **338**, 299–315.
84. Entov, V.M. & Hinch, E.J. 1997 *The effect of a spectrum of relaxation times on the capillary thinning of a filament of elastic liquid* J. Non-Newtonian Fluid Mech. **72**, 31–54.
85. Szabo, P., Rallison, J.M. & Hinch, E.J. 1997 *Start-up of flow of a FENE-fluid through a 4:1:4 constriction in a tube* J. Non-Newtonian Fluid Mech. **72**, 73–86.
86. Koplik, J., Redner, S. & Hinch, E.J. 1995 *Universal and Non-universal first-passage properties of planar multipole flows* Phys. Rev. Lett **74**, 82–85.
87. Day, Richard F., Hinch, E. John & Lister, John R. 1998 *Self-similar capillary pinchoff of an inviscid fluid* Phys. Rev. Lett. **80**, 704–707.
88. Ianniruberto, G., Marrucci, M. & Hinch, E.J. 1998 *Brownian dynamics of concentrated polymers in two dimension* J. Non-Newtonian Fluid Mech. **76**, 27–42.
89. Nicolas, M., Hinch, E.J. & Guazzelli, E. 1999 *Wavy instability in liquid-fluidized beds* Ind. Eng. Chem. Res. **38**, 799–802.
90. Hinch, E.J. 1999 *Mixing, turbulence and chaos – an introduction* pages 37–56 in *Mixing: Chaos and Turbulence* edited by H. Chaté, E. Villermaux & J.-M. Chomaz Kluwer Academic/Plenum Publishers 1999 for NATO-ASI.
91. Hinch, E.J. & Saint-Jean, S. 1999 *The fragmentation of a lines of balls by an impact* Proc. R. Soc. Lond. A **455**, 3201–3220.

92. Charru, F. & Hinch, E.J. 2000 “Phase diagram” of interfacial instabilities in a two-layer Couette flow and mechanism of the long-wave instability J. Fluid Mech. **414**, 195–233.
93. Plouraboué, F. & Hinch, E.J. 2002 Kelvin-Helmholtz instability in a Hele-Shaw cell Phys. Fluids **14**, 922–929.
94. Bertho, Y., Giorgiutti-Dauphiné, F., Raafat, T., Hinch E.J., Herrmann, H.J., & Hulin, J.P. 2002 Powder flow down a vertical pipe – the effect of air flow J. Fluid Mech. **459**, 317–345.
95. Duru, P., Nicolas, M., Hinch, E.J. & Guazzelli, E. 2002 Constitutive laws in liquid-fluidized beds J. Fluid Mech. **452**, 371–404.
96. Hascoët, E. & Hinch, E.J. 2002 Linearised impulse-wave propagating down a vertical column of heavy particles Phys. Rev. E **66**, 011307 (7 pages).
97. Hinch, E.J. & Kelmanson, M.A. 2003 On the decay and drift of free-surface perturbations in viscous, thin-film flow exterior to a rotating cylinder Proc. R. Soc. Lond. A **459**, 1193–1213.
98. Cuhna, F.R., Abade, G.C., Sousa, A.J. & Hinch, E.J. 2002 Modeling and direct simulation of velocity fluctuations and particle-velocity correlations in sedimentation J. Fluid Eng. **124**, 957–968.
99. Cunha, F.R., Sousa, A.J. & Hinch, E.J. 2002 Numerical simulation of velocity fluctuations and dispersion of sedimentating particles Chem. Engg. Comm. **189**, 1105–1129.
100. Bergougoux, L., Ghicini, S., Guazzelli, E. & Hinch E.J. 2003 Spreading fronts and fluctuations in sedimentation Phys. Fluids **15**, 1875–1887.
101. Debacq, Hulin, J-P., Salin, D., Perrin, B. & Hinch, E.J. 2003 Buoyant mixing of miscible fluids of varying viscosities in vertical tubes Phys. Fluids **15**, 3846–3855.
102. Rallison, J.M. & Hinch, E.J. 2003 The flow of an Oldroyd fluid past a reentrant corner: the downstream boundary layer J. Non-Newtonian Fluid Mech. **116**, 141–162.
103. Hinch E.J., Kelmanson, M.A. & Metcalfe, P.D. 2003 Shock-like free-surface perturbations in low-surface-tension, viscous, thin-film flow exterior to a rotating cylinder Proc. R. Soc. Lond. A **460**, 2975–2991.
104. Séon, T., Hulin, J-P., Salin, D., Perrin, B. & Hinch, E.J. 2004 Buoyant mixing of miscible fluids in tilted tubes Phys. Fluids **16**, LL103–106.
105. Hinch, E.J. & Plouraboué, F. 2005 Kelvin-Helmholtz instability in a Hele-Shaw cell: large effect from the small region near the meniscus Phys. Fluids **17**, 052107 (13 pages).
106. Séon, T., Hulin, J-P., Salin, D., Perrin, B. & Hinch, E.J. 2004 Buoyancy driven miscible front dynamics in tilted tubes Phys. Fluids **17**, 031702 (4 pages).
107. Charru, F. & Hinch, E.J. 2005 Ripple formation on a particle bed sheared by a viscous liquid. Part One: steady flow J. Fluid Mech. **550**, 111–121.

108. Charru, F. & Hinch, E.J. 2005 *Ripple formation on a particle bed sheared by a viscous liquid. Part Two: oscillating flow* J. Fluid Mech. **550**, 121–137.
109. Staron, L. & Hinch, E.J. 2005 *Discrete simulation of the collapse of granular columns* J. Fluid Mech. **545**, 1–27.
110. Larrieu, E., Staron, L. & Hinch, E.J. 2006 *Raining into shallow water as a description of the collapse of a column of grains* J. Fluid Mech. **554**, 359–270.
111. Taberlet, N., Richard, P. & Hinch, E.J. 2006 *The S-shape of a granular pile in a rotating drum* Phys. Rev. E **73**, 050301 (4 pages)
112. Séon, T., Hulin, J-P., Salin, D., Perrin, B. & Hinch, E.J. 2006 *LIF measurements of buoyancy driven mixing in tilted tubes* Phys. Fluids **18**, 041701 (4 pages).
113. Etienne, J., Hinch, E.J. & Li, J. 2006 *A Lagrangian–Eulerian approach for the numerical simulation of free-surface flow of a viscoelastic material* J. Non-Newtonian Fluid Mech. **136**, 157–166.
114. Staron, L. & Hinch, E.J. 2007 *The spreading of a granular mass: role of grain properties and initial conditions* Granular Matter **9**, 205–217.
115. Chehata Gomez, D.C., Bergougnoux, L., Hinch E.J. & Guazzelli, E. 2007 *On stratification control of the velocity fluctuations in sedimentation* Phys. Fluids **19**, 098102 (4 pages).
116. Seon, T., Znaien, J., Hinch, E.J., Perrin, B., Salin, D. & Hulin, J.P. 2007 *Transient buoyancy-driven front dynamics in nearly horizontal tubes* Phys. Fluids **19**, 123603 (11 pages).
117. Seon, T., Znaien, J., Perrin, B., Hinch, E.J., Salin, D. & Hulin, J.P. 2007 *Front dynamic and macroscopic diffusion in buoyant mixing in a tilted tube* Phys. Fluids **19**, 125105 (7 pages).
118. Chehata Gomez, D.C., Bergougnoux, L., Guazzelli, E. & Hinch, E.J. 2008 *Spreading fronts in sedimentation of dilute suspensions of spheres* Phys. Fluids **20**, 023302 (9 pages).
119. Chiu-Webster, S., Hinch, E.J. & Lister, J.R. 2008 *Very viscous horizontal convection* J. Fluid Mech. **611**, 395–426.
120. Larrieu, E, Hinch, E.J. and Charru, F. 2009 *Lagrangian drift near a wavy boundary in a viscous oscillating flow* J. Fluid Mech. **630**, 391–411.
121. Yokoi, K., Vadillo, D., Hinch, J. & Hutchings, I. 2009 *Numerical studies of the influence of the dynamic contact angle on a drop impacting on a dry surface*. Phys. Fluids **21**, 072102.
122. Chehata Gomez, D.C., Bergougnoux, L., Guazzelli, E. & Hinch, E.J. 2009 *Fluctuations and stratification in sedimentation of dilute suspensions of spheres* Phys. Fluids **21**, 093304 (10 Pages).
123. Parmar, N.H., Tirumkudulu, M.S. & Hinch, E.J. 2009 *Coating flow of viscous Newtonian liquids on a rotating vertical disc* Phys. Fluids **21**, 103102 (8 pages).

124. Znaien, J., Hallez, Y., Moisy, F., Magnaudet, J., Hulin, J.P., Salin, D. and Hinch, E.J. 2009 *Experimental and numerical investigations of flow structure and momentum transport in a turbulent buoyancy-driven flow inside a tilted tube* Phys. Fluids **21**, 115102 (10 pages.)
125. Hinch, E.J. 2010 *Determining the equation of state of highly plasticised metals from boundary velocimetry Part II. An inverse problem or not* J. Eng. Maths **68**, 279–289.
126. Elisabeth Guazzelli and John Hinch 2011 *Fluctuations and instability in sedimentation* Annual Reviews in Fluid Mechanics **43**, 97–116.
127. John Hinch 2010 *A perspective of Batchelor's research in Micro-hydrodynamics* J. Fluid Mech. **663**, 8–17.
128. John Hinch 2011 *The measurement of suspension rheology* J. Fluid Mech. **686**, 1–4.
129. Yuri D. Sobral and E. John Hinch 2011 *Gravitational Overturning in Stratified Particulate Flows* SIAM J. Appl. Math. **71**, 2151–2167.
130. Castrejón-Pita, J.R., Castrejón-Pita, A.A., Hinch, E.J., Lister, J.R. & Hutchings, I.M. 2012 *Self-similar Breakup of Near-inviscid Fluids* Phys. Rev. E. **86**, 015301 (4 pages).
131. Abdelhaye, Y.O.M., Chaouche, M., Chapuis, J., Charlaix, E., Hinch, J., Roux, S. & Van Damme, H. 2012 *Tackiness and cohesive failure of granular pastes: Mechanistic aspects* Euro. Phys. J. E **35**, 45 (8 pages).
132. Hinch, J. 2013 *Particles impacting on a granular bed* J. Eng. Maths. **84**, 41–48.
133. Yu, Liyan and Hinch, John 2013 *The velocity of 'large' viscous drops falling on a coated vertical fibre* J. Fluid Mech. **737**, 232–248.
134. Yu, Liyan and Hinch, John 2014 *Drops of power-law fluids falling on a coated vertical fibre* J. Fluid Mech. **751**, 184–215.
135. José Rafael Castrejón-Pita, Alfonso Arturo Castrejón-Pita, Sumeet Suresh Thete, Krishnaraj Sambath, Ian M. Hutchings, John Hinch, John R. Lister, and Osman A. Basaran 2015 *Plethora of transitions during breakup of liquid filaments* www.pnas.org/cgi/doi/10.1073/pnas.1418541112 (6 pages).
136. Sobral, Yuri D. and Hinch, E. John 2017 *Finite amplitude steady-state one-dimensional waves in fluidized beds* Siam J. Appl. Math. **77**, 247–266.
137. Hélène de Maleprade, Dan Soto, David Quéré, E. John Hinch, Tobias Baier, Maximilian T. Schr, and Steffen Hardt 2017 *Air-propelled, herringbone-textured platelets* Phys. Rev. Fluids **3**, 104101 (14 pages).
138. Abhishek Yadav, E. John Hinch, and Mahesh S. Tirumkudulu 2019 *Capillary-induced motion of particles bridging interfaces of a free-standing thin liquid film* Phys. Rev. Lett. **122**, 098001.
139. John Hinch 2021 *The much-neglected second normal stress difference* BSR Bulletin **62**, 4–6.

140. John Hinch and Oliver Harlen 2021 *Oldroyd B, and not A?* J. Non-Newtonian Fluid Mech. **298**, 104668. <https://authors.elsevier.com/c/1dzVI1LkSaA> P7
141. John Hinch, Evgeniy Boyko and Howard A. Stone 2024 *Fast flow of an Oldroyd-B model fluid through a narrow slowly-varying contraction* J. Fluid Mech. **988**, A11 (34 pages)
142. Evgeniy Boyko, John Hinch and Howard A. Stone 2024 *Flow of an Oldroyd-B fluid in a slowly varying contraction: theoretical results for arbitrary values of Deborah number in the ultra-dilute limit* J. Fluid Mech. **988**, A10 (36 pages)