

Eric S G Shaqfeh

List of Publications by Year in descending order

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137
papers

6,686
citations

57758

44
h-index

69250

77
g-index

140
all docs

140
docs citations

140
times ranked

3582
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A theory for the coexistence of coiled and stretched configurational phases in the extensional flow of entangled polymer melts. <i>Journal of Chemical Physics</i> , 2021, 154, 204907. | 3.0 | 2 |
| 2 | Self-propulsion of a freely suspended swimmer by a swirling tail in a viscoelastic fluid. <i>Physical Review Fluids</i> , 2021, 6, . | 2.5 | 22 |
| 3 | Transient and steady shear rheology of particle-laden viscoelastic suspensions. <i>Journal of Rheology</i> , 2021, 65, 1269-1295. | 2.6 | 10 |
| 4 | Swimming with swirl in a viscoelastic fluid. <i>Journal of Fluid Mechanics</i> , 2020, 900, . | 3.4 | 23 |
| 5 | A system for the high-throughput measurement of the shear modulus distribution of human red blood cells. <i>Lab on A Chip</i> , 2020, 20, 2927-2936. | 6.0 | 19 |
| 6 | Oscillatory spontaneous dimpling in evaporating curved thin films. <i>Journal of Fluid Mechanics</i> , 2020, 889, . | 3.4 | 7 |
| 7 | Lift and drag force on a spherical particle in a viscoelastic shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 280, 104279. | 2.4 | 24 |
| 8 | Extravasation of PEGylated Spherical Nanoparticles through a Circular Pore of Similar Size. <i>Macromolecules</i> , 2020, 53, 2991-3006. | 4.8 | 1 |
| 9 | Collective effects in the sedimentation of particles in a viscoelastic fluid. <i>Physical Review Fluids</i> , 2020, 5, . | 2.5 | 8 |
| 10 | Three-dimensional simulations of undulatory and amoeboid swimmers in viscoelastic fluids. <i>Soft Matter</i> , 2019, 15, 4836-4855. | 2.7 | 13 |
| 11 | In Vitro Measurement and Modeling of Platelet Adhesion on VWF-Coated Surfaces in Channel Flow. <i>Biophysical Journal</i> , 2019, 116, 1136-1151. | 0.5 | 16 |
| 12 | On the rheology of particle suspensions in viscoelastic fluids. <i>AIChE Journal</i> , 2019, 65, e16575. | 3.6 | 33 |
| 13 | Pressure-driven flow of a vesicle through a square microchannel. <i>Journal of Fluid Mechanics</i> , 2019, 861, 447-483. | 3.4 | 9 |
| 14 | Evaporation-driven solutocapillary flow of thin liquid films over curved substrates. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 13 |
| 15 | Drag coefficient for a sedimenting and rotating sphere in a viscoelastic fluid. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 17 |
| 16 | Extensional rheology of a dilute particle-laden viscoelastic solution. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 8 |
| 17 | Taylor dispersion in the presence of cross flow and interfacial mass transfer. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 8 |
| 18 | Simulation of microparticle inhalation in rhesus monkey airways. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 2 |

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|----|--|-----|-----------|
| 19 | Suspension flow through an asymmetric T-junction. <i>Journal of Fluid Mechanics</i> , 2018, 844, 247-273. | 3.4 | 9 |
| 20 | Effect of Length on the Dynamics of Wall Tethered Polymers in Shear Flow. <i>Macromolecules</i> , 2018, 51, 254-265. | 4.8 | 4 |
| 21 | The steady motion of a closely fitting vesicle in a tube. <i>Journal of Fluid Mechanics</i> , 2018, 835, 721-761. | 3.4 | 15 |
| 22 | Immersed-finite-element method for deformable particle suspensions in viscous and viscoelastic media. <i>Physical Review E</i> , 2018, 98, . | 2.1 | 31 |
| 23 | Mechanism of shear thickening in suspensions of rigid spheres in Boger fluids. Part I: Dilute suspensions. <i>Journal of Rheology</i> , 2018, 62, 1363-1377. | 2.6 | 30 |
| 24 | Mechanism of shear thickening in suspensions of rigid spheres in Boger fluids. Part II: Suspensions at finite concentration. <i>Journal of Rheology</i> , 2018, 62, 1379-1396. | 2.6 | 33 |
| 25 | Extravasation of Brownian Spheroidal Nanoparticles through Vascular Pores. <i>Biophysical Journal</i> , 2018, 115, 1103-1115. | 0.5 | 19 |
| 26 | Stokes flow of vesicles in a circular tube. <i>Journal of Fluid Mechanics</i> , 2018, 851, 606-635. | 3.4 | 11 |
| 27 | Einstein viscosity with fluid elasticity. <i>Physical Review Fluids</i> , 2018, 3, . | 2.5 | 40 |
| 28 | Fully resolved viscoelastic particulate simulations using unstructured grids. <i>Journal of Computational Physics</i> , 2017, 338, 313-338. | 3.8 | 38 |
| 29 | Heat/mass transport in shear flow over a reactive surface with inert defects. <i>Journal of Fluid Mechanics</i> , 2017, 811, 372-399. | 3.4 | 4 |
| 30 | Study of the flow unsteadiness in the human airway using large eddy simulation. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 18 |
| 31 | Theory to predict particle migration and margination in the pressure-driven channel flow of blood. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 51 |
| 32 | Growth of viscoelastic wings and the reduction of particle mobility in a viscoelastic shear flow. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 8 |
| 33 | The Effect of Hematocrit on Platelet Adhesion: Experiments and Simulations. <i>Biophysical Journal</i> , 2016, 111, 577-588. | 0.5 | 59 |
| 34 | Experimental observation of the asymmetric instability of intermediate-reduced-volume vesicles in extensional flow. <i>Soft Matter</i> , 2016, 12, 3787-3796. | 2.7 | 32 |
| 35 | Numerical simulation of the deterministic vector separation of particles flowing over slanted open cavities. <i>Physical Review Fluids</i> , 2016, 1, . | 2.5 | 0 |
| 36 | Pearling, wrinkling, and buckling of vesicles in elongational flows. <i>Journal of Fluid Mechanics</i> , 2015, 777, 1-26. | 3.4 | 41 |

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|----|---|-----|-----------|
| 37 | Heat/mass transport in shear flow over a heterogeneous surface with first-order surface-reactive domains. <i>Journal of Fluid Mechanics</i> , 2015, 782, 260-299. | 3.4 | 12 |
| 38 | InÂVitro Measurement of Particle Margination in the Microchannel Flow: Effect of Varying Hematocrit. <i>Biophysical Journal</i> , 2015, 108, 2601-2608. | 0.5 | 50 |
| 39 | Examining platelet adhesion via Stokes flow simulations and microfluidic experiments. <i>Soft Matter</i> , 2015, 11, 355-367. | 2.7 | 15 |
| 40 | Singular perturbation theory for predicting extravasation of Brownian particles. <i>Journal of Engineering Mathematics</i> , 2014, 84, 155-171. | 1.2 | 3 |
| 41 | Loop subdivision surface boundary integral method simulations of vesicles at low reduced volume ratio in shear and extensional flow. <i>Physics of Fluids</i> , 2014, 26, . | 4.0 | 23 |
| 42 | The mechanism of shape instability for a vesicle in extensional flow. <i>Journal of Fluid Mechanics</i> , 2014, 750, 144-190. | 3.4 | 28 |
| 43 | Nonlinear instability of a supersonic boundary layer with two-dimensional roughness. <i>Journal of Fluid Mechanics</i> , 2014, 752, 497-520. | 3.4 | 12 |
| 44 | Coarse-grained theory to predict the concentration distribution of red blood cells in wall-bounded Couette flow at zero Reynolds number. <i>Physics of Fluids</i> , 2013, 25, 061901. | 4.0 | 33 |
| 45 | The effect of shear thinning and walls on the sedimentation of a sphere in an elastic fluid under orthogonal shear. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 201, 120-129. | 2.4 | 24 |
| 46 | Simulations of a sphere sedimenting in a viscoelastic fluid with cross shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 197, 48-60. | 2.4 | 44 |
| 47 | The dynamics of a non-dilute vesicle suspension in a simple shear flow. <i>Journal of Fluid Mechanics</i> , 2013, 725, 709-731. | 3.4 | 47 |
| 48 | The shape stability of a lipid vesicle in a uniaxial extensional flow. <i>Journal of Fluid Mechanics</i> , 2013, 719, 345-361. | 3.4 | 34 |
| 49 | A Conversation with Andreas Acrivos. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2013, 4, 1-21. | 6.8 | 4 |
| 50 | Buckling transitions of an elastic filament in a viscous stagnation point flow. <i>Physics of Fluids</i> , 2012, 24, . | 4.0 | 40 |
| 51 | Effects of viscoelasticity in the high Reynolds number cylinder wake. <i>Journal of Fluid Mechanics</i> , 2012, 693, 297-318. | 3.4 | 23 |
| 52 | Flow of power-law fluids in fixed beds of cylinders or spheres. <i>Journal of Fluid Mechanics</i> , 2012, 713, 491-527. | 3.4 | 8 |
| 53 | Shear-induced particle migration and margination in a cellular suspension. <i>Physics of Fluids</i> , 2012, 24, . | 4.0 | 156 |
| 54 | Shear-induced platelet margination in a microchannel. <i>Physical Review E</i> , 2011, 83, 061924. | 2.1 | 115 |

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|----|---|------|-----------|
| 55 | The Shear Flow Processing of Controlled DNA Tethering and Stretching for Organic Molecular Electronics. <i>ACS Nano</i> , 2011, 5, 275-282. | 14.6 | 10 |
| 56 | The dynamics of a vesicle in a wall-bound shear flow. <i>Physics of Fluids</i> , 2011, 23, . | 4.0 | 51 |
| 57 | Numerical Simulation of Polymer Injection in Turbulent Flow Past a Circular Cylinder. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011, 133, . | 1.5 | 2 |
| 58 | The dynamics of a vesicle in simple shear flow. <i>Journal of Fluid Mechanics</i> , 2011, 674, 578-604. | 3.4 | 104 |
| 59 | Floquet stability analysis of viscoelastic flow over a cylinder. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 554-565. | 2.4 | 21 |
| 60 | A computational study of the influence of viscoelasticity on the interfacial dynamics of dip coating flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 614-627. | 2.4 | 16 |
| 61 | Disturbance evolution in a Mach 4.8 boundary layer with two-dimensional roughness-induced separation and shock. <i>Journal of Fluid Mechanics</i> , 2010, 648, 435-469. | 3.4 | 60 |
| 62 | Simulations of three-dimensional viscoelastic flows past a circular cylinder at moderate Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2010, 651, 415-442. | 3.4 | 80 |
| 63 | Lateral drift and concentration instability in a suspension of bubbles induced by Marangoni stresses at zero Reynolds number. <i>Physics of Fluids</i> , 2010, 22, 101702. | 4.0 | 10 |
| 64 | Effect of Solvent Quality on the Coil~Stretch Transition. <i>Macromolecules</i> , 2010, 43, 10679-10691. | 4.8 | 35 |
| 65 | The conformational dynamics of λ -DNA in the anti-Brownian electrokinetic trap: Brownian dynamics and Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 2009, 131, 224905. | 3.0 | 3 |
| 66 | Experimental and Numerical Studies of Tethered DNA Shear Dynamics in the Flow-Gradient Plane. <i>Macromolecules</i> , 2009, 42, 9170-9182. | 4.8 | 23 |
| 67 | Slip-Link Simulations of Entangled, Finitely Extensible, Wormlike Chains in Shear Flow. <i>Macromolecules</i> , 2009, 42, 7168-7183. | 4.8 | 16 |
| 68 | The effect of Brownian motion on the stability of sedimenting suspensions of polarizable rods in an electric field. <i>Journal of Fluid Mechanics</i> , 2009, 624, 361-388. | 3.4 | 12 |
| 69 | Brownian demixing and wall effects in sedimenting suspensions of orientable particles. <i>Physical Review E</i> , 2008, 78, 055301. | 2.1 | 2 |
| 70 | Ergodicity-breaking and the unraveling dynamics of a polymer in linear and nonlinear extensional flows. <i>Journal of Rheology</i> , 2007, 51, 561-574. | 2.6 | 11 |
| 71 | The dynamics of the coil-stretch transition for long, flexible polymers in planar mixed flows. <i>Journal of Rheology</i> , 2007, 51, 947-969. | 2.6 | 14 |
| 72 | Dynamics of DNA Polymers in Post Arrays: A Comparison of Single Molecule Experiments and Simulations. <i>Macromolecules</i> , 2007, 40, 3848-3859. | 4.8 | 33 |

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|----|--|-----|-----------|
| 73 | The Individualistic Dynamics of Entangled DNA in Solution. <i>Macromolecules</i> , 2007, 40, 2461-2476. | 4.8 | 99 |
| 74 | Direct numerical simulation of polymer-induced drag reduction in turbulent boundary layer flow of inhomogeneous polymer solutions. <i>Journal of Fluid Mechanics</i> , 2006, 566, 153. | 3.4 | 54 |
| 75 | Hydrodynamic interactions in the induced-charge electrophoresis of colloidal rod dispersions. <i>Journal of Fluid Mechanics</i> , 2006, 563, 223. | 3.4 | 106 |
| 76 | Effect of flexibility on the shear-induced migration of short-chain polymers in parabolic channel flow. <i>Journal of Fluid Mechanics</i> , 2006, 557, 297. | 3.4 | 49 |
| 77 | The growth of concentration fluctuations in dilute dispersions of orientable and deformable particles under sedimentation. <i>Journal of Fluid Mechanics</i> , 2006, 553, 347. | 3.4 | 44 |
| 78 | International Workshop on Mesoscale and Multiscale Description of Complex Fluids – IWMMCOF – 06. <i>Applied Rheology</i> , 2006, 16, 340-341. | 5.2 | 0 |
| 79 | The effect of stratification on the wave number selection in the instability of sedimenting spheroids. <i>Physics of Fluids</i> , 2006, 18, 121503. | 4.0 | 18 |
| 80 | Stabilization of a suspension of sedimenting rods by induced-charge electrophoresis. <i>Physics of Fluids</i> , 2006, 18, 121701. | 4.0 | 26 |
| 81 | A smooth particle-mesh Ewald algorithm for Stokes suspension simulations: The sedimentation of fibers. <i>Physics of Fluids</i> , 2005, 17, 033301. | 4.0 | 138 |
| 82 | An experimental and numerical investigation of drag reduction in a turbulent boundary layer using a rigid rodlike polymer. <i>Physics of Fluids</i> , 2005, 17, 085101. | 4.0 | 41 |
| 83 | The dynamic mechanism for turbulent drag reduction using rigid fibers based on Lagrangian conditional statistics. <i>Physics of Fluids</i> , 2005, 17, 063102. | 4.0 | 30 |
| 84 | Viscoelastic effects on interfacial dynamics in air-liquid displacement under gravity stabilization. <i>Journal of Fluid Mechanics</i> , 2005, 531, 59-83. | 3.4 | 8 |
| 85 | Dynamics of DNA in the Flow-Gradient Plane of Steady Shear Flow: Observations and Simulations. <i>Macromolecules</i> , 2005, 38, 1967-1978. | 4.8 | 126 |
| 86 | Shear Thinning and Tumbling Dynamics of Single Polymers in the Flow-Gradient Plane. <i>Macromolecules</i> , 2005, 38, 581-592. | 4.8 | 154 |
| 87 | Effect of Hydrodynamic Interactions on DNA Dynamics in Extensional Flow: Simulation and Single Molecule Experiment. <i>Macromolecules</i> , 2004, 37, 9242-9256. | 4.8 | 155 |
| 88 | Numerical simulation of turbulent drag reduction using rigid fibres. <i>Journal of Fluid Mechanics</i> , 2004, 518, 281-317. | 3.4 | 85 |
| 89 | On the coherent drag-reducing and turbulence-enhancing behaviour of polymers in wall flows. <i>Journal of Fluid Mechanics</i> , 2004, 514, 271-280. | 3.4 | 224 |
| 90 | On the polymer entropic force singularity and its relation to extensional stress relaxation and filament recoil. <i>Journal of Rheology</i> , 2004, 48, 209-221. | 2.6 | 19 |

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|-----|--|------|-----------|
| 91 | Shear Forces between Tethered Polymer Chains as a Function of Compression, Sliding Velocity, and Solvent Quality. <i>Macromolecules</i> , 2003, 36, 389-398. | 4.8 | 107 |
| 92 | Visualization of Molecular Fluctuations near the Critical Point of the Coil~Stretch Transition in Polymer Elongation. <i>Macromolecules</i> , 2003, 36, 4544-4548. | 4.8 | 87 |
| 93 | The configurational phase transitions of flexible polymers in planar mixed flows near simple shear. <i>Journal of Chemical Physics</i> , 2003, 119, 2908-2914. | 3.0 | 22 |
| 94 | Observation of Polymer Conformation Hysteresis in Extensional Flow. <i>Science</i> , 2003, 301, 1515-1519. | 12.6 | 321 |
| 95 | A computational study of DNA separations in sparse disordered and periodic arrays of posts. <i>Journal of Chemical Physics</i> , 2003, 118, 2941. | 3.0 | 50 |
| 96 | Dynamic simulations of the inhomogeneous sedimentation of rigid fibres. <i>Journal of Fluid Mechanics</i> , 2002, 468, 205-237. | 3.4 | 102 |
| 97 | An experimental and simulation study of dilute polymer solutions in exponential shear flow: Comparison to uniaxial and planar extensional flows. <i>Journal of Rheology</i> , 2001, 45, 321-349. | 2.6 | 9 |
| 98 | Dynamics of dilute and semidilute DNA solutions in the start-up of shear flow. <i>Journal of Rheology</i> , 2001, 45, 421-450. | 2.6 | 134 |
| 99 | Electrophoresis of DNA Adsorbed to a Cationic Supported Bilayer. <i>Langmuir</i> , 2001, 17, 7396-7401. | 3.5 | 39 |
| 100 | Relating the Microscopic and Macroscopic Response of a Polymeric Fluid in a Shearing Flow. <i>Physical Review Letters</i> , 2000, 85, 2018-2021. | 7.8 | 81 |
| 101 | Observations of ribbing instabilities in elastic fluid flows with gravity stabilization. <i>Journal of Fluid Mechanics</i> , 1999, 399, 49-83. | 3.4 | 29 |
| 102 | Rheology of Polymer Brushes: A Brownian Dynamics Study. <i>Macromolecules</i> , 1998, 31, 5474-5486. | 4.8 | 83 |
| 103 | A numerical study of the sedimentation of fibre suspensions. <i>Journal of Fluid Mechanics</i> , 1998, 376, 149-182. | 3.4 | 85 |
| 104 | The conformation change of model polymers in stochastic flow fields: Flow through fixed beds. <i>Physics of Fluids</i> , 1997, 9, 1222-1234. | 4.0 | 13 |
| 105 | Drop breakup in the flow through fixed beds via stochastic simulation in model Gaussian fields. <i>Physics of Fluids</i> , 1997, 9, 3209-3226. | 4.0 | 8 |
| 106 | Dynamic simulation of freely draining flexible polymers in steady linear flows. <i>Journal of Fluid Mechanics</i> , 1997, 334, 251-291. | 3.4 | 187 |
| 107 | Cross-streamline migration of slender Brownian fibres in plane Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 1997, 332, 23-39. | 3.4 | 30 |
| 108 | Oscillatory shear of a confined fiber suspension. <i>Journal of Rheology</i> , 1997, 41, 445-466. | 2.6 | 8 |

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|-----|---|-----|-----------|
| 109 | Rheology of "Wet" Polymer Brushes via Brownian Dynamics Simulation: Steady vs Oscillatory Shear. <i>Physical Review Letters</i> , 1997, 78, 1182-1185. | 7.8 | 62 |
| 110 | A numerical study of the rheological properties of suspensions of rigid, non-Brownian fibres. <i>Journal of Fluid Mechanics</i> , 1996, 329, 155-186. | 3.4 | 99 |
| 111 | Experimental Investigation of the Sedimentation of a Dilute Fiber Suspension. <i>Physical Review Letters</i> , 1996, 77, 290-293. | 7.8 | 82 |
| 112 | The effect of hydrodynamic interactions on the orientation distribution in a fiber suspension subject to simple shear flow. <i>Physics of Fluids</i> , 1995, 7, 487-506. | 4.0 | 117 |
| 113 | A nonlocal theory for stress in bound, Brownian suspensions of slender, rigid fibres. <i>Journal of Fluid Mechanics</i> , 1995, 296, 271-324. | 3.4 | 40 |
| 114 | The extensional viscosity and effective thermal conductivity of a dispersion of aligned disks. <i>Physics of Fluids</i> , 1994, 6, 1955-1962. | 4.0 | 6 |
| 115 | Observations of polymer conformation during flow through a fixed fibre bed. <i>Journal of Fluid Mechanics</i> , 1994, 281, 319-356. | 3.4 | 20 |
| 116 | Observations of purely elastic instabilities in the Taylor-Couette flow of a Boger fluid. <i>Journal of Fluid Mechanics</i> , 1994, 262, 27-73. | 3.4 | 70 |
| 117 | Effect of surface re-emission on the surface roughness of film growth in low pressure chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 557-568. | 2.1 | 21 |
| 118 | The effects of inertia on the viscoelastic Dean and Taylor-Couette flow instabilities with application to coating flows. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 2415-2431. | 1.6 | 56 |
| 119 | Averaged equation and diagrammatic approximations to the average concentration of a tracer dispersed by a Gaussian random velocity field. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 887-894. | 1.6 | 20 |
| 120 | A purely elastic instability in Dean and Taylor-Couette flow. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 524-543. | 1.6 | 92 |
| 121 | Polymer stretch in dilute fixed beds of fibres or spheres. <i>Journal of Fluid Mechanics</i> , 1992, 244, 17. | 3.4 | 20 |
| 122 | The effects of gap width and dilute solution properties on the viscoelastic Taylor-Couette instability. <i>Journal of Fluid Mechanics</i> , 1992, 235, 285. | 3.4 | 100 |
| 123 | Viscoelastic Poiseuille flow through a curved channel: A new elastic instability. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 1691-1694. | 1.6 | 35 |
| 124 | Viscoelastic Poiseuille flow through a curved channel: A new elastic instability. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 2043-2046. | 1.6 | 24 |
| 125 | Observations of axisymmetric tracer particle orientation during flow through a dilute fixed bed of fibers. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 2516-2528. | 1.6 | 12 |
| 126 | Orientalional dispersion of fibers in extensional flows. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 1077-1093. | 1.6 | 44 |

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|-----|--|-----|-----------|
| 127 | The hydrodynamic stress in a suspension of rods. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 7-24. | 1.6 | 271 |
| 128 | A purely elastic instability in Taylorâ€™Couette flow. <i>Journal of Fluid Mechanics</i> , 1990, 218, 573. | 3.4 | 449 |
| 129 | The average rotation rate of a fiber in the linear flow of a semidilute suspension. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 2093-2102. | 1.6 | 41 |
| 130 | Simulation of reactive ion etching pattern transfer. <i>Journal of Applied Physics</i> , 1989, 66, 4664-4675. | 2.5 | 107 |
| 131 | Factors controlling the etching rate and etching profile in the O ₂ reactive ion etching pattern transfer step in multilevel lithography. <i>Polymer Engineering and Science</i> , 1989, 29, 878-881. | 3.1 | 10 |
| 132 | The instability of a dispersion of sedimenting spheroids. <i>Journal of Fluid Mechanics</i> , 1989, 209, 521-542. | 3.4 | 134 |
| 133 | Heat and mass transport in composites of aligned slender fibers. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989, 1, 3-20. | 1.6 | 35 |
| 134 | Nonlocal transport models of the self-consistent potential distribution in a plasma sheath with charge transfer collisions. <i>Journal of Applied Physics</i> , 1988, 64, 6200-6209. | 2.5 | 31 |
| 135 | The combined effects of hydrodynamic interactions and Brownian motion on the orientation of particles flowing through fixed beds. <i>Physics of Fluids</i> , 1988, 31, 2769. | 1.4 | 13 |
| 136 | A nonlocal theory for the heat transport in composites containing highly conducting fibrous inclusions. <i>Physics of Fluids</i> , 1988, 31, 2405-2425. | 1.4 | 29 |
| 137 | Effect of elasticity on mixing torque requirements for rushton turbine impellers. <i>AIChE Journal</i> , 1984, 30, 485-486. | 3.6 | 13 |