Andreas Acrivos

List of Publications by Year
in descending order

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52 papers	7,780 citations	87723 38 h-index	174990 52 g-index
52 all docs	52 docs citations	52 times ranked	3405 citing authors

#	Article	IF	Citations
1	Deterministic and stochastic behaviour of non-Brownian spheres in sheared suspensions. Journal of Fluid Mechanics, 2002, 460, 307-335.	1.4	106
2	Shear-induced particle diffusivities from numerical simulations. Journal of Fluid Mechanics, 2001, 443, 101-128.	1.4	60
3	Particle segregation in monodisperse sheared suspensions in a partially filled rotating horizontal cylinder. Physics of Fluids, 2000, 12, 1615-1618.	1.6	53
4	Viscous resuspension in a bidensity suspension. International Journal of Multiphase Flow, 1999, 25, 1-14.	1.6	17
5	Particle segregation in monodisperse sheared suspensions. Physics of Fluids, 1999, 11, 507-509.	1.6	71
6	The measurement of the shear-induced particle and fluid tracer diffusivities in concentrated suspensions by a novel method. Journal of Fluid Mechanics, 1998, 375, 297-318.	1.4	93
7	On the measurement of the relative viscosity of suspensions. Journal of Rheology, 1994, 38, 1285-1296.	1.3	38
8	The shear-induced migration of particles in concentrated suspensions. Journal of Fluid Mechanics, 1987, 181, 415.	1.4	995
9	Measurement of shear-induced self-diffusion in concentrated suspensions of spheres. Journal of Fluid Mechanics, 1987, 177, 109-131.	1.4	415
10	Conduction of heat from a planar wall with uniform surface temperature to a monodispersed suspension of spheres. Journal of Applied Physics, 1987, 62, 771-776.	1.1	7
11	Viscous resuspension. Chemical Engineering Science, 1986, 41, 1377-1384.	1.9	236
12	Rate of heat conduction from a heated sphere to a matrix containing passive spheres of a different conductivity. Journal of Applied Physics, 1986, 59, 3375-3382.	1.1	10
13	The formation and expansion of a toroidal drop moving in a viscous fluid. Physics of Fluids, 1984, 27, 19.	1.4	106
14	Enhanced sedimentation in narrow tilted channels. Journal of Fluid Mechanics, 1981, 108, 485-499.	1.4	44
15	A note on the rate of heat or mass transfer from a small particle freely suspended in a linear shear field. Journal of Fluid Mechanics, 1980, 98, 299-304.	1.4	46
16	Shearâ€Induced Structure in a Concentrated Suspension of Solid Spheres. Journal of Rheology, 1980, 24, 799-814.	1.3	457
17	Enhanced sedimentation in settling tanks with inclined walls. Journal of Fluid Mechanics, 1979, 92, 435-457.	1.4	190
18	Deformation and breakup of a single slender drop in an extensional flow. Journal of Fluid Mechanics, 1978, 86, 641-672.	1.4	212

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19	The effective thermal conductivity of sheared suspensions. Journal of Fluid Mechanics, 1976, 78, 33-48.	1.4	53
20	A moving-wall boundary layer with reverse flow. Journal of Fluid Mechanics, 1976, 76, 363-381.	1.4	70
21	The rheological properties of suspensions of rigid particles. AICHE Journal, 1976, 22, 417-432.	1.8	470
22	Closed streamline flows past small rotating particles: Heat transfer at high pÃ©clet numbers. International Journal of Multiphase Flow, 1976, 2, 365-377.	1.6	20
23	Closed-streamline flows past rotating single cylinders and spheres: inertia effects. Journal of Fluid Mechanics, 1975, 72, 605-623.	1.4	62
24	Experiments on the effective viscosity of concentrated suspensions of solid spheres. International Journal of Multiphase Flow, 1974, 1, 373-381.	1.6	7
25	Steady simple shear flow past a circular cylinder at moderate Reynolds numbers: a numerical solution. Journal of Fluid Mechanics, 1974, 66, 353-376.	1.4	44
26	The rheology of suspensions and its relation to phenomenological theories for non-newtonian fluids. International Journal of Multiphase Flow, 1973, 1, 1-24.	1.6	73
27	On computer generated analytic solutions to the equations of fluid mechanics. The case of creeping flows. Journal of Computational Physics, 1973, 12, 403-411.	1.9	9
28	On the creeping motion of two arbitrary-sized touching spheres in a linear shear field. Journal of Fluid Mechanics, 1973, 59, 209-223.	1.4	108
29	High Reynolds number steady separated flow past a wedge of negative angle. Journal of Fluid Mechanics, 1972, 56, 577.	1.4	5
30	A note on the laminar mixing of two uniform parallel semi-infinite streams. Journal of Fluid Mechanics, 1972, 55, 25-30.	1.4	54
31	A method for integrating the boundary-layer equations through a region of reverse flow. Journal of Fluid Mechanics, 1972, 53, 177.	1.4	103
32	Heat transfer at high PÃ©clet number from a small sphere freely rotating in a simple shear field. Journal of Fluid Mechanics, 1971, 46, 233-240.	1.4	50
33	The constitutive equation for a dilute emulsion. Journal of Fluid Mechanics, 1970, 44, 65-78.	1.4	307
34	Buoyancy-driven convection in cylindrical geometries. Journal of Fluid Mechanics, 1969, 36, 239-258.	1.4	77
35	Further experiments on steady separated flows past bluff objects. Journal of Fluid Mechanics, 1968, 34, 25-48.	1.4	92
36	AN ANALYSIS OF LAMINAR FORCED-CONVECTION MASS TRANSFER WITH HOMOGENEOUS CHEMICAL REACTION. Quarterly Journal of Mechanics and Applied Mathematics, 1967, 20, 471-497.	0.5	9

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37	Steady flows in rectangular cavities. Journal of Fluid Mechanics, 1967, 28, 643-655.	1.4	398
38	The stability of oscillatory internal waves. Journal of Fluid Mechanics, 1967, 30, 723-736.	1.4	103
39	Solitary internal waves in deep water. Journal of Fluid Mechanics, 1967, 29, 593-607.	1.4	347
40	On the viscosity of a concentrated suspension of solid spheres. Chemical Engineering Science, 1967, 22, 847-853.	1.9	662
41	The influence of Coriolis force on surface-tension-driven convection. Journal of Fluid Mechanics, 1966, 26, 807-818.	1.4	33
42	Asymptotic expansions for laminar forced-convection heat and mass transfer Part 2. Boundary-layer flows. Journal of Fluid Mechanics, 1966, 24, 339-366.	1.4	28
43	The influence of surfactants on the creeping motion of bubbles. Chemical Engineering Science, 1966, 21, 681-685.	1.9	135
44	On the combined effect of forced and free convection heat transfer in laminar boundary layer flows. Chemical Engineering Science, 1966, 21, 343-352.	1.9	115
45	Asymptotic expansions for laminar forced-convection heat and mass transfer. Journal of Fluid Mechanics, 1965, 23, 273.	1.4	146
46	The steady separated flow past a circular cylinder at large Reynolds numbers. Journal of Fluid Mechanics, 1965, 21, 737-760.	1.4	57
47	On the deformation and drag of a falling viscous drop at low Reynolds number. Journal of Fluid Mechanics, 1964, 18, 466.	1.4	408
48	The asymptotic form of the laminar boundary-layer mass-transfer rate for large interfacial velocities. Journal of Fluid Mechanics, 1962, 12, 337-357.	1.4	77
49	Heat and Mass Transfer from Single Spheres in Stokes Flow. Physics of Fluids, 1962, 5, 387.	1.4	392
50	Mass transfer in laminarâ€”boundary-layer flows with finite interfacial velocities. AICHE Journal, 1960, 6, 410-414.	1.8	34
51	Solution of the Laminar Boundary Layer Energy Equation at High Prandtl Numbers. Physics of Fluids, 1960, 3, 657.	1.4	68
52	On the Rate of Heat Transfer in Liquids with Gas Injection through the Boundary Layer. Journal of Applied Physics, 1957, 28, 1509-1509.	1.1	8