

# 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	The shear-induced migration of particles in concentrated suspensions. <i>Journal of Fluid Mechanics</i> , 1987, 181, 415.	1.4	995
2	On the viscosity of a concentrated suspension of solid spheres. <i>Chemical Engineering Science</i> , 1967, 22, 847-853.	1.9	662
3	The rheological properties of suspensions of rigid particles. <i>AIChE Journal</i> , 1976, 22, 417-432.	1.8	470
4	Shear-induced Structure in a Concentrated Suspension of Solid Spheres. <i>Journal of Rheology</i> , 1980, 24, 799-814.	1.3	457
5	Measurement of shear-induced self-diffusion in concentrated suspensions of spheres. <i>Journal of Fluid Mechanics</i> , 1987, 177, 109-131.	1.4	415
6	On the deformation and drag of a falling viscous drop at low Reynolds number. <i>Journal of Fluid Mechanics</i> , 1964, 18, 466.	1.4	408
7	Steady flows in rectangular cavities. <i>Journal of Fluid Mechanics</i> , 1967, 28, 643-655.	1.4	398
8	Heat and Mass Transfer from Single Spheres in Stokes Flow. <i>Physics of Fluids</i> , 1962, 5, 387.	1.4	392
9	Solitary internal waves in deep water. <i>Journal of Fluid Mechanics</i> , 1967, 29, 593-607.	1.4	347
10	The constitutive equation for a dilute emulsion. <i>Journal of Fluid Mechanics</i> , 1970, 44, 65-78.	1.4	307
11	Viscous resuspension. <i>Chemical Engineering Science</i> , 1986, 41, 1377-1384.	1.9	236
12	Deformation and breakup of a single slender drop in an extensional flow. <i>Journal of Fluid Mechanics</i> , 1978, 86, 641-672.	1.4	212
13	Enhanced sedimentation in settling tanks with inclined walls. <i>Journal of Fluid Mechanics</i> , 1979, 92, 435-457.	1.4	190
14	Asymptotic expansions for laminar forced-convection heat and mass transfer. <i>Journal of Fluid Mechanics</i> , 1965, 23, 273.	1.4	146
15	The influence of surfactants on the creeping motion of bubbles. <i>Chemical Engineering Science</i> , 1966, 21, 681-685.	1.9	135
16	On the combined effect of forced and free convection heat transfer in laminar boundary layer flows. <i>Chemical Engineering Science</i> , 1966, 21, 343-352.	1.9	115
17	On the creeping motion of two arbitrary-sized touching spheres in a linear shear field. <i>Journal of Fluid Mechanics</i> , 1973, 59, 209-223.	1.4	108
18	The formation and expansion of a toroidal drop moving in a viscous fluid. <i>Physics of Fluids</i> , 1984, 27, 19.	1.4	106

#	ARTICLE	IF	CITATIONS
19	Deterministic and stochastic behaviour of non-Brownian spheres in sheared suspensions. Journal of Fluid Mechanics, 2002, 460, 307-335.	1.4	106
20	The stability of oscillatory internal waves. Journal of Fluid Mechanics, 1967, 30, 723-736.	1.4	103
21	A method for integrating the boundary-layer equations through a region of reverse flow. Journal of Fluid Mechanics, 1972, 53, 177.	1.4	103
22	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
23	Further experiments on steady separated flows past bluff objects. Journal of Fluid Mechanics, 1968, 34, 25-48.	1.4	92
24	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
25	Buoyancy-driven convection in cylindrical geometries. Journal of Fluid Mechanics, 1969, 36, 239-258.	1.4	77
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	Particle segregation in monodisperse sheared suspensions. Physics of Fluids, 1999, 11, 507-509.	1.6	71
28	A moving-wall boundary layer with reverse flow. Journal of Fluid Mechanics, 1976, 76, 363-381.	1.4	70
29	Solution of the Laminar Boundary Layer Energy Equation at High Prandtl Numbers. Physics of Fluids, 1960, 3, 657.	1.4	68
30	Closed-streamline flows past rotating single cylinders and spheres: inertia effects. Journal of Fluid Mechanics, 1975, 72, 605-623.	1.4	62
31	Shear-induced particle diffusivities from numerical simulations. Journal of Fluid Mechanics, 2001, 443, 101-128.	1.4	60
32	The steady separated flow past a circular cylinder at large Reynolds numbers. Journal of Fluid Mechanics, 1965, 21, 737-760.	1.4	57
33	A note on the laminar mixing of two uniform parallel semi-infinite streams. Journal of Fluid Mechanics, 1972, 55, 25-30.	1.4	54
34	The effective thermal conductivity of sheared suspensions. Journal of Fluid Mechanics, 1976, 78, 33-48.	1.4	53
35	Particle segregation in monodisperse sheared suspensions in a partially filled rotating horizontal cylinder. Physics of Fluids, 2000, 12, 1615-1618.	1.6	53
36	Heat transfer at high Péclet number from a small sphere freely rotating in a simple shear field. Journal of Fluid Mechanics, 1971, 46, 233-240.	1.4	50

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37	A note on the rate of heat or mass transfer from a small particle freely suspended in a linear shear field. <i>Journal of Fluid Mechanics</i> , 1980, 98, 299-304.	1.4	46
38	Steady simple shear flow past a circular cylinder at moderate Reynolds numbers: a numerical solution. <i>Journal of Fluid Mechanics</i> , 1974, 66, 353-376.	1.4	44
39	Enhanced sedimentation in narrow tilted channels. <i>Journal of Fluid Mechanics</i> , 1981, 108, 485-499.	1.4	44
40	On the measurement of the relative viscosity of suspensions. <i>Journal of Rheology</i> , 1994, 38, 1285-1296.	1.3	38
41	Mass transfer in laminar boundary-layer flows with finite interfacial velocities. <i>AIChE Journal</i> , 1960, 6, 410-414.	1.8	34
42	The influence of Coriolis force on surface-tension-driven convection. <i>Journal of Fluid Mechanics</i> , 1966, 26, 807-818.	1.4	33
43	Asymptotic expansions for laminar forced-convection heat and mass transfer Part 2. Boundary-layer flows. <i>Journal of Fluid Mechanics</i> , 1966, 24, 339-366.	1.4	28
44	Closed streamline flows past small rotating particles: Heat transfer at high Peclet numbers. <i>International Journal of Multiphase Flow</i> , 1976, 2, 365-377.	1.6	20
45	Viscous resuspension in a bidensity suspension. <i>International Journal of Multiphase Flow</i> , 1999, 25, 1-14.	1.6	17
46	Rate of heat conduction from a heated sphere to a matrix containing passive spheres of a different conductivity. <i>Journal of Applied Physics</i> , 1986, 59, 3375-3382.	1.1	10
47	AN ANALYSIS OF LAMINAR FORCED-CONVECTION MASS TRANSFER WITH HOMOGENEOUS CHEMICAL REACTION. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1967, 20, 471-497.	0.5	9
48	On computer generated analytic solutions to the equations of fluid mechanics. The case of creeping flows. <i>Journal of Computational Physics</i> , 1973, 12, 403-411.	1.9	9
49	On the Rate of Heat Transfer in Liquids with Gas Injection through the Boundary Layer. <i>Journal of Applied Physics</i> , 1957, 28, 1509-1509.	1.1	8
50	Experiments on the effective viscosity of concentrated suspensions of solid spheres. <i>International Journal of Multiphase Flow</i> , 1974, 1, 373-381.	1.6	7
51	Conduction of heat from a planar wall with uniform surface temperature to a monodispersed suspension of spheres. <i>Journal of Applied Physics</i> , 1987, 62, 771-776.	1.1	7
52	High Reynolds number steady separated flow past a wedge of negative angle. <i>Journal of Fluid Mechanics</i> , 1972, 56, 577.	1.4	5