

Andreas Acrivos

List of Publications by Citations

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52
papers

6,602
citations

37
h-index

52
g-index

52
ext. papers

7,092
ext. citations

3.6
avg, IF

5.31
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 52 | The shear-induced migration of particles in concentrated suspensions. <i>Journal of Fluid Mechanics</i> , 1987 , 181, 415 | 3.7 | 879 |
| 51 | On the viscosity of a concentrated suspension of solid spheres. <i>Chemical Engineering Science</i> , 1967 , 22, 847-853 | 4.4 | 569 |
| 50 | The rheological properties of suspensions of rigid particles. <i>AIChE Journal</i> , 1976 , 22, 417-432 | 3.6 | 403 |
| 49 | Shear-Induced Structure in a Concentrated Suspension of Solid Spheres. <i>Journal of Rheology</i> , 1980 , 24, 799-814 | 4.1 | 395 |
| 48 | Measurement of shear-induced self-diffusion in concentrated suspensions of spheres. <i>Journal of Fluid Mechanics</i> , 1987 , 177, 109-131 | 3.7 | 374 |
| 47 | Steady flows in rectangular cavities. <i>Journal of Fluid Mechanics</i> , 1967 , 28, 643-655 | 3.7 | 338 |
| 46 | On the deformation and drag of a falling viscous drop at low Reynolds number. <i>Journal of Fluid Mechanics</i> , 1964 , 18, 466 | 3.7 | 319 |
| 45 | Heat and Mass Transfer from Single Spheres in Stokes Flow. <i>Physics of Fluids</i> , 1962 , 5, 387 | | 303 |
| 44 | Solitary internal waves in deep water. <i>Journal of Fluid Mechanics</i> , 1967 , 29, 593-607 | 3.7 | 297 |
| 43 | The constitutive equation for a dilute emulsion. <i>Journal of Fluid Mechanics</i> , 1970 , 44, 65-78 | 3.7 | 266 |
| 42 | Viscous resuspension. <i>Chemical Engineering Science</i> , 1986 , 41, 1377-1384 | 4.4 | 213 |
| 41 | Deformation and breakup of a single slender drop in an extensional flow. <i>Journal of Fluid Mechanics</i> , 1978 , 86, 641-672 | 3.7 | 188 |
| 40 | Enhanced sedimentation in settling tanks with inclined walls. <i>Journal of Fluid Mechanics</i> , 1979 , 92, 435-457 | | 152 |
| 39 | Asymptotic expansions for laminar forced-convection heat and mass transfer. <i>Journal of Fluid Mechanics</i> , 1965 , 23, 273 | 3.7 | 114 |
| 38 | The influence of surfactants on the creeping motion of bubbles. <i>Chemical Engineering Science</i> , 1966 , 21, 681-685 | 4.4 | 110 |
| 37 | 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 | 3.7 | 96 |
| 36 | A method for integrating the boundary-layer equations through a region of reverse flow. <i>Journal of Fluid Mechanics</i> , 1972 , 53, 177 | 3.7 | 94 |

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|----|--|-----|----|
| 35 | 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 | 4.4 | 93 |
| 34 | Deterministic and stochastic behaviour of non-Brownian spheres in sheared suspensions. <i>Journal of Fluid Mechanics</i> , 2002 , 460, 307-335 | 3.7 | 92 |
| 33 | The measurement of the shear-induced particle and fluid tracer diffusivities in concentrated suspensions by a novel method. <i>Journal of Fluid Mechanics</i> , 1998 , 375, 297-318 | 3.7 | 87 |
| 32 | The formation and expansion of a toroidal drop moving in a viscous fluid. <i>Physics of Fluids</i> , 1984 , 27, 19 | | 87 |
| 31 | The stability of oscillatory internal waves. <i>Journal of Fluid Mechanics</i> , 1967 , 30, 723-736 | 3.7 | 79 |
| 30 | Further experiments on steady separated flows past bluff objects. <i>Journal of Fluid Mechanics</i> , 1968 , 34, 25-48 | 3.7 | 69 |
| 29 | Particle segregation in monodisperse sheared suspensions. <i>Physics of Fluids</i> , 1999 , 11, 507-509 | 4.4 | 66 |
| 28 | Buoyancy-driven convection in cylindrical geometries. <i>Journal of Fluid Mechanics</i> , 1969 , 36, 239-258 | 3.7 | 64 |
| 27 | A moving-wall boundary layer with reverse flow. <i>Journal of Fluid Mechanics</i> , 1976 , 76, 363-381 | 3.7 | 62 |
| 26 | The rheology of suspensions and its relation to phenomenological theories for non-newtonian fluids. <i>International Journal of Multiphase Flow</i> , 1973 , 1, 1-24 | 3.6 | 62 |
| 25 | Closed-streamline flows past rotating single cylinders and spheres: inertia effects. <i>Journal of Fluid Mechanics</i> , 1975 , 72, 605-623 | 3.7 | 58 |
| 24 | The asymptotic form of the laminar boundary-layer mass-transfer rate for large interfacial velocities. <i>Journal of Fluid Mechanics</i> , 1962 , 12, 337-357 | 3.7 | 58 |
| 23 | Shear-induced particle diffusivities from numerical simulations. <i>Journal of Fluid Mechanics</i> , 2001 , 443, 101-128 | 3.7 | 55 |
| 22 | Solution of the Laminar Boundary Layer Energy Equation at High Prandtl Numbers. <i>Physics of Fluids</i> , 1960 , 3, 657 | | 54 |
| 21 | Particle segregation in monodisperse sheared suspensions in a partially filled rotating horizontal cylinder. <i>Physics of Fluids</i> , 2000 , 12, 1615-1618 | 4.4 | 47 |
| 20 | The steady separated flow past a circular cylinder at large Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 1965 , 21, 737-760 | 3.7 | 46 |
| 19 | The effective thermal conductivity of sheared suspensions. <i>Journal of Fluid Mechanics</i> , 1976 , 78, 33-48 | 3.7 | 44 |
| 18 | A note on the laminar mixing of two uniform parallel semi-infinite streams. <i>Journal of Fluid Mechanics</i> , 1972 , 55, 25-30 | 3.7 | 41 |

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|----|--|-----|----|
| 17 | 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 | 3.7 | 38 |
| 16 | Heat transfer at high Péclet number from a small sphere freely rotating in a simple shear field. <i>Journal of Fluid Mechanics</i> , 1971 , 46, 233-240 | 3.7 | 38 |
| 15 | 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 | 3.7 | 37 |
| 14 | Enhanced sedimentation in narrow tilted channels. <i>Journal of Fluid Mechanics</i> , 1981 , 108, 485-499 | 3.7 | 35 |
| 13 | On the measurement of the relative viscosity of suspensions. <i>Journal of Rheology</i> , 1994 , 38, 1285-1296 | 4.1 | 29 |
| 12 | 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 | 3.7 | 27 |
| 11 | Mass transfer in laminar boundary-layer flows with finite interfacial velocities. <i>AIChE Journal</i> , 1960 , 6, 410-414 | 3.6 | 26 |
| 10 | The influence of Coriolis force on surface-tension-driven convection. <i>Journal of Fluid Mechanics</i> , 1966 , 26, 807-818 | 3.7 | 23 |
| 9 | Closed streamline flows past small rotating particles: Heat transfer at high Péclet numbers. <i>International Journal of Multiphase Flow</i> , 1976 , 2, 365-377 | 3.6 | 16 |
| 8 | Viscous resuspension in a bidensity suspension. <i>International Journal of Multiphase Flow</i> , 1999 , 25, 1-14 | 3.6 | 15 |
| 7 | 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 | 2.5 | 9 |
| 6 | 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 | 2.5 | 7 |
| 5 | 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 | 4.1 | 7 |
| 4 | Experiments on the effective viscosity of concentrated suspensions of solid spheres. <i>International Journal of Multiphase Flow</i> , 1974 , 1, 373-381 | 3.6 | 6 |
| 3 | 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 | 1 | 6 |
| 2 | 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 | 2.5 | 5 |
| 1 | High Reynolds number steady separated flow past a wedge of negative angle. <i>Journal of Fluid Mechanics</i> , 1972 , 56, 577 | 3.7 | 4 |