

- 481 Scattering of internal tides by irregular bathymetry of large extent
Y. Li & C. C. Mei
- 506 Studying edge geometry in transiently turbulent shear flows
M. Chantry & T. M. Schneider
- 518 On the need for a nonlinear subscale turbulence term in POD models as exemplified for a high-Reynolds-number flow over an Ahmed body
J. Östth, B. R. Noack, S. Krajnović, D. Barros & J. Borée
- 545 Liquid transfer from single cavities to rotating rolls
D. M. Campana & M. S. Carvalho
- 572 Phoretic self-propulsion at finite Péclet numbers
S. Michelin & E. Lauga
- 605 Geostrophic adjustment with gyroscopic waves: stably neutrally stratified fluid without the traditional approximation
G. M. Reznik
- 635 Multifractality in combustion noise: predicting an impending combustion instability
V. Nair & R. I. Sujith
- S* 656 Experimental investigation of aerofoil tonal noise generation
S. Pröbsting, J. Serpieri & F. Scarano
- 688 Fluid–structure interaction of a square cylinder at different angles of attack
J. Zhao, J. S. Leontini, D. Lo Jacono & J. Sheridan
- S* 722 Superhydrophobic turbulent drag reduction as a function of surface grating parameters
H. Park, G. Sun & C.-J. “CJ” Kim

JFM Rapids (online only)

- R1 Drops on soft solids: free energy and double transition of contact angles
L. A. Lubbers, J. H. Weijs, L. Botto, S. Das, B. Andreotti & J. H. Snoeijer
- S* R2 Numerical study of collisional particle dynamics in cluster-induced turbulence
J. Capecelatro, O. Desjardins & R. O. Fox

S indicates supplementary data or movies available online.

- 1 Optimal Taylor–Couette flow: radius ratio dependence
R. Ostilla-Mónico, S. G. Huisman, T. J. G. Jannink, D. P. M. Van Gils, R. Verzicco, S. Grossmann, C. Sun & D. Lohse
- 30 A minimal flow-elements model for the generation of packets of hairpin vortices in shear flows
J. Cohen, M. Karp & V. Mehta
- 44 Disturbance energy growth in core–annular flow
A. Orazio, G. Coppola & L. de Luca
- S 73 Turbulent flow in the bulk of Rayleigh–Bénard convection: aspect-ratio dependence of the small-scale properties
M. Kaczorowski, K.-L. Chong & K.-Q. Xia
- 103 Bridging local to global dynamics of drop impact onto solid substrates
H. Lastakowski, F. Boyer, A.-L. Biance, C. Pirat & C. Ybert
- S 119 Characteristics of air entrainment during dynamic wetting failure along a planar substrate
E. Vandre, M. S. Carvalho & S. Kumar
- 141 Direct numerical simulations of laminar separation bubbles: investigation of absolute instability and active flow control of transition to turbulence
M. Embacher & H.F. Fasel
- 186 Turbulent flow over superhydrophobic surfaces with streamwise grooves
S. Türk, G. Daschiel, A. Stroh, Y. Hasegawa & B. Frohnäpfel
- 218 Influence of heterogeneity on second-kind self-similar solutions for viscous gravity currents
Z. Zheng, I. C. Christov & H.A. Stone
- 247 Investigation of Boussinesq dynamics using intermediate models based on wave–vortical interactions
G. Hernandez-Duenas, L. M. Smith & S. N. Stechmann
- 288 Transport equation for the mean turbulent energy dissipation rate in low- R_λ grid turbulence
L. Djenidi & R.A. Antonia
- 316 Dissolution-driven porous-medium convection in the presence of chemical reaction
T. J. Ward, K. A. Cliffe, O. E. Jensen & H. Power
- 350 Boundary conditions and vortex wandering
S. P. Jammy, N. Hills & D. M. Birch
- 369 A regular Strouhal number for large-scale instability in the far wake of a rotor
V. L. Okulov, I. V. Naumov, R. F. Mikkelsen, I. K. Kabardin & J. N. Sørensen
- 381 Analysis of complex singularities in high-Reynolds-number Navier–Stokes solutions
F. Gargano, M. Sammartino, V. Sciacca & K. W. Cassel
- 422 Modelling the dynamics of a sphere approaching and bouncing on a wall in a viscous fluid
E. Izard, T. Bonometti & L. Lacaze
- 447 Linear instability analysis of convection in a laterally heated cylinder
B.-F. Wang, Z.-H. Wan, Z.-W. Guo, D.-J. Ma & D.-J. Sun
- 460 Pulse dynamics in a power-law falling film
M. Pradas, D. Tseluiko, C. Ruyer-Quil & S. Kalliadasis

Contents continued on inside back cover.