

Cambridge Core

The new home of
Cambridge Journals
cambridge.org/core

Cambridge Core



- 544 Nonlinear phase-resolved reconstruction of irregular water waves
Y. Qi, G. Wu, Y. Liu, M.-H. Kim & D. K. P. Yue
- 573 A semi-infinite hydraulic fracture driven by a shear-thinning fluid
F.-E. Moukhtari & B. Lecampion
- 606 Reconfiguration of elastic blades in oscillatory flow
T. Leclercq & E. de Langre
- S* 631 Erosion of a sharp density interface by a turbulent jet at moderate Froude and Reynolds numbers
J. Herault, G. Facchini & M. Le Bars
- 658 Capturing Taylor–Görtler vortices in a streamwise-rotating channel at very high rotation numbers
Z. Yang & B.-C. Wang
- 690 Forced synchronization of periodic and aperiodic thermoacoustic oscillations: lock-in, bifurcations and open-loop control
K. Kashinath, L. K. B. Li & M. P. Juniper
- 715 Influence of pressure gradients on wall pressure beneath a turbulent boundary layer
E. Cohen & X. Gloerfelt
- 759 Numerical simulation and analysis of condensation shocks in cavitating flow
B. Budich, S. J. Schmidt & N. A. Adams

JFM Rapids (online only)

- R1 On the interaction of an internal wavepacket with its induced mean flow and the role of streaming
B. Fan, T. Kataoka & T. R. Akylas
- R2 Synchronization of second-mode instability waves for high-enthalpy hypersonic boundary layers
L. C. Salemi & H. F. Fasel

- S R3 Mixing lamellae in a shear flow
M. Souzy, I. Zaier, H. Lhuissier, T. Le Borgne & B. Metzger

S indicates supplementary data or movies available online.

- 1 Sculpting with flow
L. Ristroph
- 5 Spontaneous inertia–gravity wave emission in the differentially heated rotating annulus experiment
S. Hien, J. Rolland, S. Borchert, L. Schoon, C. Zülicke & U. Achatz
- 42 Constrained sparse Galerkin regression
J.-C. Loiseau & S. L. Brunton
- 68 The common mechanism of turbulent skin-friction drag reduction with superhydrophobic longitudinal microgrooves and riblets
A. Rastegari & R. Akhavan
- 105 Mixing across fluid interfaces compressed by convective flow in porous media
J. J. Hidalgo & M. Dentz
- 129 Onset of transient natural convection in porous media due to porosity perturbations
N. Tilton
- 148 High-speed visualization of vortical cavitation using synchrotron radiation
I. K. Karathanassis, P. Koukouvinis, E. Kontolatis, Z. Lee, J. Wang, N. Mitroglou & M. Gavaises
- S 165 Dynamics of a liquid plug in a capillary tube under cyclic forcing: memory effects and airway reopening
S. S. Mamba, J. C. Magniez, F. Zoueshtiagh & M. Baudoin
- 192 The spontaneous puncture of thick liquid films
B. Néel & E. Villermaux
- 222 Level-set simulations of a 2D topological rearrangement in a bubble assembly: effects of surfactant properties
A. Titta, M. Le Merrer, F. Detcheverry, P. D. M. Spelt & A.-L. Biance
- 248 The effect of phase change on stability of convective flow in a layer of volatile liquid driven by a horizontal temperature gradient
R. O. Grigoriev & T. Qin
- 284 Electro-poroelastohydrodynamics of the endothelial glycocalyx layer
P. P. Sumets, J. E. Cater, D. S. Long & R. J. Clarke
- 320 Rarefaction-driven Rayleigh–Taylor instability. Part 2. Experiments and simulations in the nonlinear regime
R. V. Morgan, W. H. Cabot, J. A. Greenough & J. W. Jacobs
- 356 Rotations and accumulation of ellipsoidal microswimmers in isotropic turbulence
N. Pujara, M. A. R. Koehl & E. A. Variano
- 369 On the skin friction due to turbulence in ducts of various shapes
P. R. Spalart, A. Garbaruk & A. Stabnikov
- 379 Edge state modulation by mean viscosity gradients
E. Rinaldi, P. Schlatter & S. Bagheri
- 404 Healing capillary films
Z. Zheng, M. A. Fontelos, S. Shin, M. C. Dallaston, D. Tseluiko, S. Kalliadasis & H. A. Stone
- 435 Non-localized boundary layer instabilities resulting from leading edge receptivity at moderate supersonic Mach numbers
M. E. Goldstein & P. Ricco
- 478 Influence of optimally amplified streamwise streaks on the Kelvin–Helmholtz instability
M. Marant & C. Cossu
- 501 The multi-scale geometry of the near field in an axisymmetric jet
D. Mistry, J. R. Dawson & A. R. Kerstein
- 516 Characteristics of turbulent boundary layers over smooth surfaces with spanwise heterogeneities
T. Medjnoun, C. Vanderwel & B. Ganapathisubramani

Contents continued on inside back cover.