- 468 The time evolution of the maximal horizontal surface fluid velocity for an irrotational wave approaching breakingA. Constantin
- 476 Salinity transfer in bounded double diffusive convection
 Y. Yang, E. P. van der Poel,
 R. Ostilla-Mónico, C. Sun, R. Verzicco,
 S. Grossmann & D. Lohse
- 492 Regimes during liquid drop impact on a liquid poolB. Ray, G. Biswas & A. Sharma

JFM Rapids (online only)

- R1 Phoretic self-propulsion at large
 Péclet numbers
 E. Yariv & S. Michelin
- R2 Inertial rise of a meniscus on a vertical cylinder
 D. O'Kiely, J. P. Whiteley, J. M. Oliver & D. Vella
- R3 Transformation of internal waves passing over a bottom step
 E. N. Churaev, S. V. Semin & Y. A. Stepanyants
- S indicates supplementary data or movies available online.

- *S* 524 Parametric resonance in unsteady watertable flow **C. Camporeale & P. J. Schmid**
 - 549 Network-theoretic approach to sparsified discrete vortex dynamicsA. G. Nair & K. Taira
 - 572 Surface water waves over a shallow canopy B. Wang, X. Guo & C. C. Mei
 - 600 Linear estimation of flux sensitivity to uncertainty in porous mediaA. J. Evans, C. P. Caulfield & A. W. Woods
 - R4 Experimental investigation of the vortex breakdown in a lean premixing prevaporizing burner
 E. Canepa, A. Cattanei, D. Lengani, M. Ubaldi & P. Zunino
 - R5 Slender-body approximations for advection-diffusion problems **O. Schnitzer**

ISSN 0022-1120

68

Journal of Fluid Mechanics

- 1 Life and death by boundary conditions **A. Prosperetti**
- 5 Optimal control of energy extraction in wind-farm boundary layers
 J. P. Goit & J. Meyers
- 51 Mixed convection in a periodically heated channelM. Z. Hossain & J. M. Floryan
- 91 The Froude number for solitary water waves with vorticityM. H. Wheeler
- 113 Linear three-dimensional global and asymptotic stability analysis of incompressible open cavity flow
 V. Citro, F. Giannetti, L. Brandt & P. Luchini
- S 141 Cavitation about a jet in crossflow P. A. Brandner, B. W. Pearce & K. L. de Graaf
 - 175 Direct numerical simulation of transition in a sharp cone boundary layer at Mach 6: fundamental breakdown J. Sivasubramanian & H. F. Fasel
 - 219 High spatial and temporal resolution study of shock wave reflection over a coupled convex–concave cylindrical surfaceO. Ram, M. Geva & O. Sadot
 - 240 The influence of wing morphology on the three-dimensional flow patterns of a flapping wing at bird scaleW. Thielicke & E. J. Stamhuis

Contents continued on inside back cover.

- 261 The wall-pressure spectrum of high-Reynolds-number turbulent boundary-layer flows over rough surfaces
 T. Meyers, J. B. Forest & W. J. Devenport
- 294 Experimental investigation of flow development and gap vortex street in an eccentric annular channel. Part 2. Effects of inlet conditions, diameter ratio, eccentricity and Reynolds number
 G. H. Choueiri & S. Tavoularis
- 316 Numerical and experimental study of mechanisms responsible for turbulent secondary flows in boundary layer flows over spanwise heterogeneous roughness
 W. Anderson, J. M. Barros,
 K. T. Christensen & A. Awasthi
- 348 Laminar streak growth above a spanwise oscillating wall
 P. D. Hicks & P. Ricco
- 375 Inviscid versus viscous instability mechanism of an air–water mixing layerJ.-P. Matas
- 388 A hybrid molecular–continuum method for unsteady compressible multiscale flowsM. K. Borg, D. A. Lockerby & J. M. Reese
- 415 A framework for studying the effect of compliant surfaces on wall turbulenceM. Luhar, A. S. Sharma & B. J. McKeon
- 442 Dynamics of sessile drops. Part 2. ExperimentC.-T. Chang, J. B. Bostwick, S. Daniel &P. H. Steen

Cambridge Journals Online For further information about this journal please go to the journal web site at journals.cambridge.org/flm



MIX Paper from responsible sources FSC® C007785

