

## Research Highlights from *Physics of Fluids*

A selection from recently published *Physics of Fluids* papers is presented below to illustrate their timely and diverse contributions to the journal. These articles have been made free to download for a limited time.

### Sticking and splashing in yield-stress fluid drop impacts on coated surfaces

Brendan C. Blackwell, Marc E. Deetjen, Joseph E. Gaudio, Randy H. Ewoldt

[Phys. Fluids 27, 043101 \(2015\)](#)

### Modal and non-modal evolution of perturbations for parallel round jets

J. I. Jiménez-González, P. Brancher, C. Martínez-Bazán

[Phys. Fluids 27, 044105 \(2015\)](#)

### Concentrations of inertial particles in the turbulent wake of an immobile sphere

Holger Homann, Jérémie Bec

[Phys. Fluids 27, 053301 \(2015\)](#)

### Atomic-scale thermocapillary flow in focused ion beam milling

K. Das, H. T. Johnson, J. B. Freund

[Phys. Fluids 27, 052003 \(2015\)](#)

### Spatial evolution of a quasi-two-dimensional Kármán vortex street subjected to a strong uniform magnetic field

Ahmad H. A. Hamid, Wisam K. Hussam, Alban Pothérat, Gregory J.

Sheard

[Phys. Fluids 27, 053602 \(2015\)](#)

### Structure and morphology of a triple point

H. Hekiri, G. Emanuel

[Phys. Fluids 27, 056102 \(2015\)](#)

### Rotation of a spheroid in a simple shear at small Reynolds number

J. Einarsson, F. Candelier, F. Lundell, J. R. Angilella, B. Mehlig

[Phys. Fluids 27, 063301 \(2015\)](#)

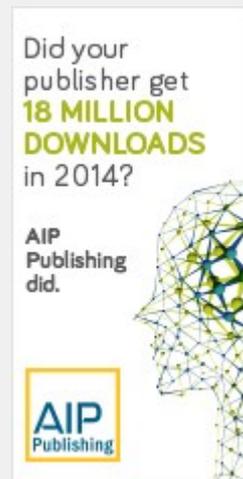
### Thermally excited fluid flow in a micro-sized liquid crystal channel with a free surface

## Upcoming Events

Advances in Microfluidics & Nanofluidics 2015

August 19-21, 2015

Beijing, China



A. V. Zakharov, A. A. Vakulenko  
[Phys. Fluids 27, 062001 \(2015\)](#)

**Lagrangian and Eulerian analysis of transport and mixing in the three dimensional, time dependent Hill's spherical vortex**

Kevin L. McIlhany, Stephen Guth, Stephen Wiggins  
[Phys. Fluids 27, 063603 \(2015\)](#)

**Numerical study on horizontal convection of a rarefied gas over a non-isothermal plane wall**

Tetsuro Tsuji, Yudai Katto, Satoyuki Kawano  
[Phys. Fluids 27, 067103 \(2015\)](#)

**Interaction of a weak shock wave with a discontinuous heavy-gas cylinder**

Xiansheng Wang, Dangguo Yang, Junqiang Wu, Xisheng Luo  
[Phys. Fluids 27, 064104 \(2015\)](#)

**Oscillations of a liquid bridge resulting from the coalescence of two droplets**

Véronique Chireux, David Fabre, Frédéric Risso, Philippe Tordjeman  
[Phys. Fluids 27, 062103 \(2015\)](#)

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