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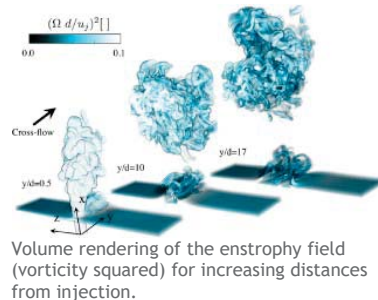
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Physics of Fluids

AIP | Physics of Fluids

Highlighted Fluid Dynamics Images

Flow topologies and turbulence scales in a jet-in-cross-flow

A. M. Ruiz, G. Lacaze, J. C. Oefelein
[Phys. Fluids 27, 045101 \(2015\)](#)



Volume rendering of the enstrophy field (vorticity squared) for increasing distances from injection.

Research Highlights

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.

Vortex dynamics in a pipe T-junction: Recirculation and sensitivity

Kevin K. Chen, Clarence W. Rowley, Howard A. Stone
[Phys. Fluids 27, 034107 \(2015\)](#)

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

J. I. Jiménez-González, P. Brancher, C. Martínez-Bazán
[Phys. Fluids 27, 044105 \(2015\)](#)

Two-layer geostrophic tripoles comprised by patches of uniform potential vorticity

Biana Shteinbuch-Fridman, Viacheslav Makarov, Xavier Carton, Ziv Kizner
[Phys. Fluids 27, 036602 \(2015\)](#)

Pinning of reaction fronts by burning invariant manifolds in extended flows

P. W. Megson, M. L. Najarian, K. E. Lilienthal, T. H. Solomon
[Phys. Fluids 27, 023601 \(2015\)](#)

Suppression of vortex-induced vibration using the rotary

Physics of Fluids at a Glance

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oscillation of a cylinder

Lin Du, Xiaofeng Sun
[Phys. Fluids 27, 023603 \(2015\)](#)

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 \(2015\)](#)

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 \(2015\)](#)

Geometrical influence on vortex shedding in turbulent axisymmetric wakes

J. Nedić, O. Supponen, B. Ganapathisubramani, J. C. Vassilicos
[Phys. Fluids 27, 035103 \(2015\)](#)

Study of the shock wave structure by regularized Grad's set of equations

M. Yu. Timokhin, Ye. A. Bondar, A. A. Kokhanchik, M. S. Ivanov, *et al.*
[Phys. Fluids 27, 037101 \(2015\)](#)

The effect of in-plane arterial curvature on blood flow and oxygen transport in arterio-venous fistulae

F. Iori, L. Grechy, R. W. Corbett, W. Gedroyc, *et al.*
[Phys. Fluids 27, 031903 \(2015\)](#)

Dispersion of flagellated swimming microorganisms in planar Poiseuille flow

Sandeep Chilukuri, Cynthia H. Collins, Patrick T. Underhill
[Phys. Fluids 27, 031902 \(2015\)](#)

Wicking and flooding of liquids on vertical porous sheets

Seong Jin Kim, Jin Woo Choi, Myoung-Woon Moon, Kwang-Ryeol Lee, *et al.*
[Phys. Fluids 27, 032105 \(2015\)](#)

A modified model for thermal conductivity of carbon nanotube-nanofluids

Bui Hung Thang, Phan Hong Khoi, Phan Ngoc Minh
[Phys. Fluids 27, 032002 \(2015\)](#)

Dimensional transition of energy cascades in stably stratified forced thin fluid layers

A. Sozza, G. Boffetta, P. Muratore-Ginanneschi, S. Musacchio
[Phys. Fluids 27, 035112 \(2015\)](#)

Chaotic mixing in a planar, curved channel using periodic slip

P. Garg, J. R. Picardo, S. Pushpavanam
[Phys. Fluids 27, 032004 \(2015\)](#)

Anisotropic linear forcing for synthetic turbulence generation in large eddy simulation and hybrid RANS/LES modeling

GROWTH



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IMPACT



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SPEED



Average time from Submission to Publication is 6 months — one of the fastest in the category

B. de Laage de Meux, B. Audebert, R. Manceau, R. Perrin

[Phys. Fluids 27, 035115 \(2015\)](#)

A framework for large eddy simulation of Burgers turbulence based upon spatial and temporal statistical information

A. LaBryer, P. J. Attar, P. Vedula

[Phys. Fluids 27, 035116 \(2015\)](#)

*Data taken from 2015 post-publication author surveys

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