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Slushing instability and electrolyte layer rupture in liquid metal batteries

Norbert Weber, Pascal Beckstein, Wietze Herreman, Gerrit Maik Horstmann, Caroline Nore, Frank Stefani, and Tom Weierless
Physics of Fluids **29**, 054101 (2017)
DOI: 10.1063/1.4982900

A nonlinear, three-dimensional model for ocean flows, motivated by some observations of the Pacific Equatorial Undercurrent and thermocline

A. Constantin, and R. S. Johnson
Physics of Fluids **29**, 056604 (2017)
DOI: 10.1063/1.4984001

Exact analytical solution for large-amplitude oscillatory shear flow from Oldroyd 8-constant framework: Shear stress

C. Saengow, A. J. Giacomin, and C. Kolutawong
Physics of Fluids **29**, 043101 (2017)
DOI: 10.1063/1.4978959

A novel investigation of a micropolar fluid characterized by nonlinear constitutive diffusion model in boundary layer flow and heat transfer

Jize Sui, Peng Zhao, Zhengdong Cheng, Liancun Zheng, and Xinxin Zhangless
Physics of Fluids **29**, 023105 (2017)
DOI: 10.1063/1.4976642

Behavior of self-propelled acetone droplets in a Leidenfrost state on liquid substrates

Stoffel D. Janssens, Satoshi Koizumi, and Eliot Fried
Physics of Fluids **29**, 032103 (2017)
DOI: 10.1063/1.4977442

An experimental study on the characteristics of wind-driven surface water film flows by using a multi-transducer ultrasonic pulse-echo technique

Yang Liu, Wen-Li Chen, Leonard J. Bond, and Hui Hu
Physics of Fluids **29**, 012102 (2017)
DOI: 10.1063/1.4973398

Kinematics in a slowly drying porous medium: Reconciliation of pore network simulations and continuum modeling

Alireza Attari Moghaddam, Abdolreza Kharaghani, Evangelos Tsotsas, and Marc Prat
Physics of Fluids **29**, 022102 (2017)
DOI: 10.1063/1.4975985

Numerical analysis of the jet stage of bubble near a solid wall using a front tracking method

L. T. Liu, X. L. Yao, A. M. Zhang, and Y. Y. Chen
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DOI: 10.1063/1.4974073

Magnetohydrodynamic two-phase dusty fluid flow and heat model over deforming isothermal surfaces

Mustafa Turkyilmazoglu
Physics of Fluids **29**, 013302 (2017)
DOI: 10.1063/1.4965926

From two-dimensional to three-dimensional turbulence through two-dimensional three-component flows

L. Biferale, M. Buzdicotti, and M. Linkmann
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DOI: 10.1063/1.4990082