

Abstract Submitted
for the DFD12 Meeting of
The American Physical Society

Coalescence of two colliding liquid droplets with lattice Boltzmann method¹ YIKUN WEI, YUEHONG QIAN, Institute of Applied Mathematics and Mechanics, Shanghai University — In this talk, we present two-dimensional numerical simulations of the head-on and off-center binary collision of van der Waals liquid droplets using the lattice Boltzmann method (LBM). The effects of the Weber number, impact velocity, droplet size ratio on the coalescence process are investigated. Numerical results are found in a good agreement with experimental findings.

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¹The research is supported in part by Shanghai Science and Technology Commission Projects of (1) Leading Scientists and (2) No. 11XD1402300.

Yuehong Qian
Institute of Applied Mathematics and Mechanics, Shanghai University

Date submitted: 24 Sep 2012

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