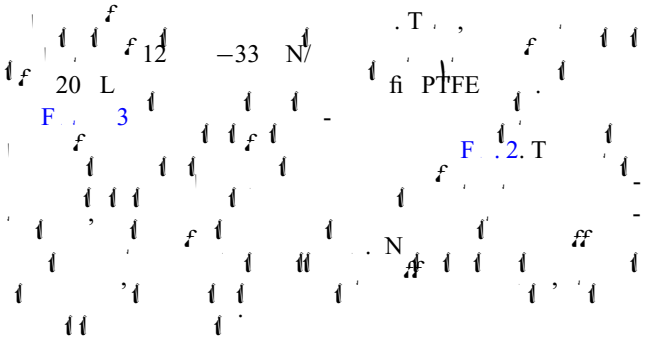
a d **Chun-Wei Yao,** D; a ; M; ch a ca E ; ; , La a U ; , B; a , TX 77710, USA
Add ; a c ; d; c; d; a d a P H; a **phe@lamar.edu**
Add ; a c ; d; c; ; ; ; Ch -W; Ya a **c ao@lamar.edu**

(R; c; ; d 23 Ma 2019; acc; ; d 27 J ; 2019)

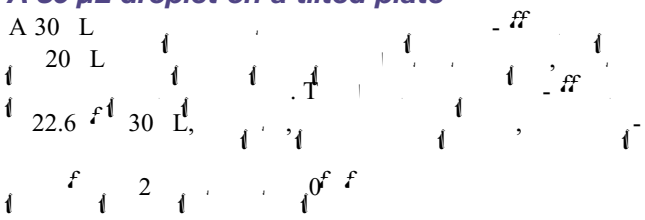
Abstract

E perimental setup

T
σ E . (9)
< (γ_{SL} κ) ,



A 30 µL droplet on a tilted plate



N/ , −10 N/), (3 N/ , −80 N/), (50 N/ , −5 N/). A (14 N/ , −10 N/) - . S F S7 (10 N/ , −14 N/), (3 N/ , −80 N/), (50 N/ , −5 N/) .

Equilibrium, advancing and receding contact angles

T S F . S8. E , , - . T 4, 10, 20, 30 L 16.7 , 29.3 , 32.3 , 21.7 , - . O , 20 L , . I . E 4, 10, 20, 30 L - S . 8 S M . O .

Discussions on pseudo-line tensions

. T

PTFE . B -

. T

20 L

30 L , 20 L

Concluding remarks

A N–S- [12] I ,

CAH

- ,

. B -

-

. F 4

30 L .

G

. M ,

fi . T -

, -

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-

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Supplementar material

T

:// . /10.1557/ .2019.92.

Acknowledgments

T 2018 R E

G (REG) A LU .T

C A P

M (CAPM) L U .

T A C C (TACC) UT

A (#G-819854).

C I , C

E (CICE) L U .

D . H - C M . P L -

IT I

D LU HPC

M . C S HPC .

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