

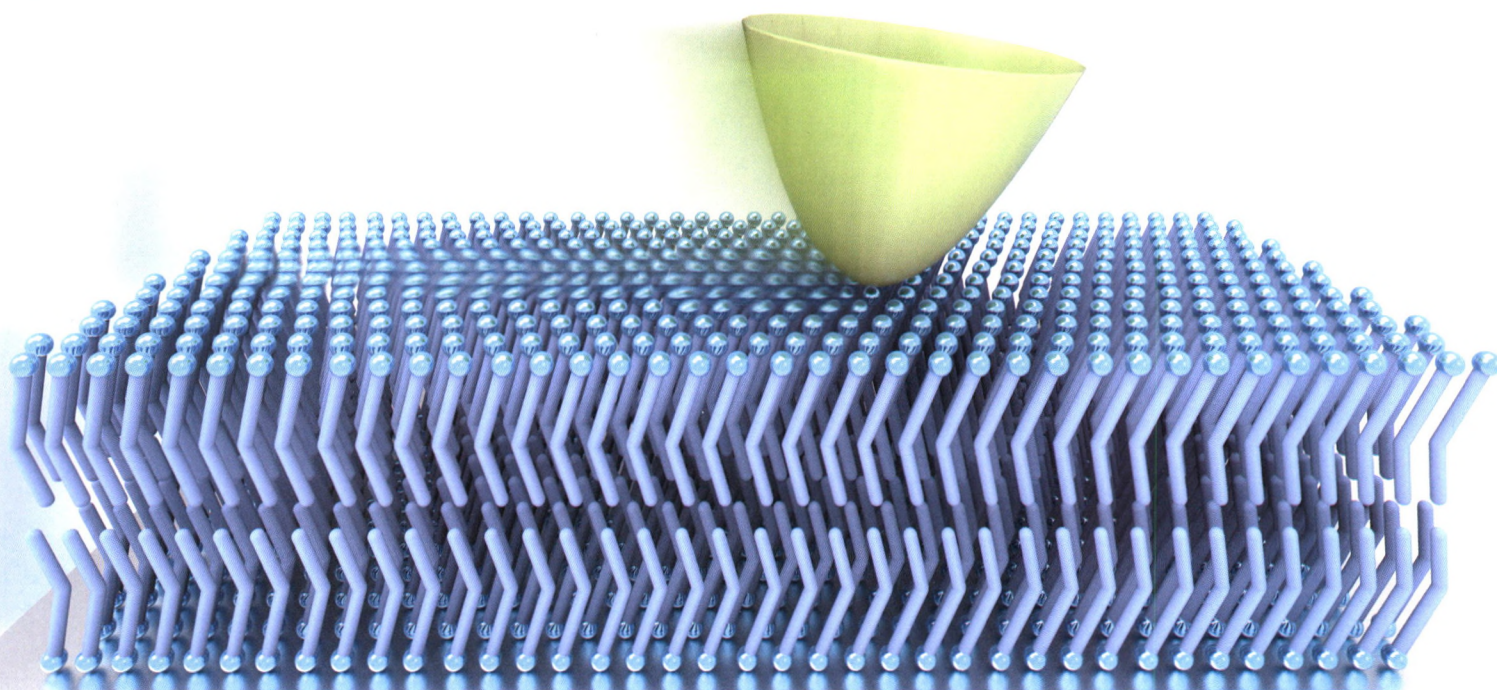


AMS ACTA MECHANICA SINICA

Volume 37 · Number 7 · July 2021

Tuning frictional properties of molecularly thin erucamide films through controlled self-assembling

Yoyu Di · Shuai Zhang · Xi-Qiao Feng · Qunyang Li



The Chinese Society of
Theoretical and
Applied Mechanics



Institute of Mechanics,
Chinese Academy
of Sciences



Springer

INVITED REVIEW

- 1031 Studies on theory and modeling of droplet and spray combustion in China: a review
L. Zhou

DISTINGUISHED YOUNG SCHOLARS

- 1041 Tuning frictional properties of molecularly thin erucamide films through controlled self-assembling
Y. Di · S. Zhang · X.-Q. Feng · Q. Li

X-MECHANICS

- 1050 Imperfection sensitivity of mechanical properties in soft network materials with horseshoe microstructures
J. Liu · X. Zhu · Z. Shen · Y. Zhang
- 1063 Confined thin film wrinkling on shape memory polymer with hybrid surface morphologies
Y. Wang · J. Xiao

EXTREME MECHANICS

- 1072 Numerical study on the dynamic characteristics of water entry of cavity body using two-phase SPH method
Q. Yang · F. Xu · Y. Yang · J. Wang · A. Wang · C. Ma

FLUID MECHANICS

- 1090 Effect of surface roughness on the aerodynamics of a high-speed train subjected to crosswinds
M.Y. Wang · S.A. Hashmi · Z.X. Sun · D.L. Guo · G. Vita · G.W. Yang · H. Hemida

SOLID MECHANICS

- 1104 Bond-associated non-ordinary state-based peridynamic model for multiple spalling simulation of concrete
S. Yang · X. Gu · Q. Zhang · X. Xia
- 1136 Multi-scale finite element simulation on large deformation behavior of wood under axial and transverse compression conditions
W. Zhong · Z. Zhang · X. Chen · Q. Wei · G. Chen · X. Huang

DYNAMICS, VIBRATION, AND CONTROL

- 1152 Limb-inspired bionic quasi-zero stiffness vibration isolator
R. Zeng · G. Wen · J. Zhou · G. Zhao
- 1168 Fixed-interval smoothing of an aeroelastic airfoil model with cubic or free-play nonlinearity in incompressible flow
Q. Liu · Y. Xu · Y. Li · J. Kurths · X. Liu

BIOMECHANICS

- 1183 Non-intrusive data-driven ROM framework for hemodynamics problems
M. Girfoglio · L. Scandurra · F. Ballarin · G. Infantino · F. Nicolo · A. Montalto · G. Rozza · R. Scrofolani · M. Comisso · F. Musumeci

CORRECTION

- 1192 Correction to: Impact of leg bending in the patient-specific computational fluid dynamics of popliteal stenting
A. Ferrarini · A. Finotello · G. Salsano · F. Auricchio · D. Palombo · G. Spinella · B. Pane · M. Conti



INVITED REVIEW

- 1031 **Studies on theory and modeling of droplet and spray combustion in China: a review**
L. Zhou

DISTINGUISHED YOUNG SCHOLARS

- 1041 **Tuning frictional properties of molecularly thin erucamide films through controlled self-assembling**
Y. Di · S. Zhang · X.-Q. Feng · Q. Li

X-MECHANICS

- 1050 **Imperfection sensitivity of mechanical properties in soft network materials with horseshoe microstructures**
J. Liu · X. Zhu · Z. Shen · Y. Zhang
- 1063 **Confined thin film wrinkling on shape memory polymer with hybrid surface morphologies**
Y. Wang · J. Xiao

EXTREME MECHANICS

- 1072 **Numerical study on the dynamic characteristics of water entry of cavity body using two-phase SPH method**
Q. Yang · F. Xu · Y. Yang · J. Wang · A. Wang · C. Ma

FLUID MECHANICS

- 1090 **Effect of surface roughness on the aerodynamics of a high-speed train subjected to crosswinds**
M.Y. Wang · S.A. Hashmi · Z.X. Sun · D.L. Guo · G. Vita · G.W. Yang · H. Hemida

SOLID MECHANICS

- 1104 **Bond-associated non-ordinary state-based peridynamic model for multiple spalling simulation of concrete**
S. Yang · X. Gu · Q. Zhang · X. Xia
- 1136 **Multi-scale finite element simulation on large deformation behavior of wood under axial and transverse compression conditions**
W. Zhong · Z. Zhang · X. Chen · Q. Wei · G. Chen · X. Huang

DYNAMICS, VIBRATION, AND CONTROL

- 1152 **Limb-inspired bionic quasi-zero stiffness vibration isolator**
R. Zeng · G. Wen · J. Zhou · G. Zhao
- 1168 **Fixed-interval smoothing of an aeroelastic airfoil model with cubic or free-play nonlinearity in incompressible flow**
Q. Liu · Y. Xu · Y. Li · J. Kurths · X. Liu

BIOMECHANICS

- 1183 **Non-intrusive data-driven ROM framework for hemodynamics problems**
M. Girfoglio · L. Scandurra · F. Ballarin · G. Infantino · F. Nicolo · A. Montalto · G. Rozza · R. Scrofolani · M. Comisso · F. Musumeci

CORRECTION

- 1192 **Correction to: Impact of leg bending in the patient-specific computational fluid dynamics of popliteal stenting**
A. Ferrarini · A. Finotello · G. Salsano · F. Auricchio · D. Palombo · G. Spinella · B. Pane · M. Conti

