

LIU Rui

CONTACT INFORMATION

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EDUCATION AND EMPLOYMENT

2010 – present Institute of Physics, Chinese Academy of Sciences
Assistant/Associate Researcher
2008 – 2009 École Centrale Paris, France
2004 – 2010 Institute of Physics, Chinese Academy of Sciences
Ph.D. in Condensed Matter Physics (Jul. 2010)
2000 – 2004 Department of Physics, Wuhan University (Hubei, China)
B.S. in Physics (Jul. 2004)

RESEARCH INTERESTS

Experiment, simulation, and theoretical modeling:
Non-equilibrium and nonlinear dynamics of granular systems
Structure and dynamics of amorphous colloidal/granular systems

SELECTED PUBLICATIONS

Y. Li, **R. Liu***, and M. Hou, “Gluing bifurcation and noise-induced hopping in the oscillatory phenomena of compartmentalized bi-disperse granular gases”, *Phys. Rev. Lett.* **109**, 198001 (2012).

M. Hou, Y. Li, **R. Liu**, Y. Zhang, and K. Lu, “Oscillatory clusterings in compartmentalized granular systems”, *Phys. Status Solidi A* **207**, 2739 (2010).

R. Liu, Y. Li, and M. Hou, “Oscillatory phenomena of compartmentalized bi-disperse granular gases”, *Phys. Rev. E* **79**, 052301 (2009).

M. Hou, H. Tu, **R. Liu**, Y. Li, K. Lu, P. Y. Lai, and C. K. Chan, “Temperature oscillations in a compartmentalized bi-disperse granular gas”, *Phys. Rev. Lett.* **100**, 068001 (2008).

M. Hou, **R. Liu**, G. Zhai, Z. Sun, K. Lu, Y. Garrabos, and P. Evesque, “Velocity distribution of vibration-driven granular gas in Knudsen regime in microgravity”, *Microgravity Sci. Technol.* **20**, 73 (2008).

R. Liu, Y. Li, M. Hou, and B. Meerson, “van der Waals-like phase-separation instability of a driven granular gas in three dimensions”, *Phys. Rev. E* **75**, 061304 (2007).

M. Hou, Z. Peng, **R. Liu**, K. Lu, and C. K. Chan, “Dynamics of a projectile penetrating in granular systems”, *Phys. Rev. E* **72**, 062301 (2005).