

Lu Zou
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OBJECTIVE

To seek a research position in the field of soft condensed matter, especially in experimental field.

EDUCATIONS

Bachelor of Science, Physics, 1998, Ji Lin University, Chang Chun, P. R. China

Master of Philosophy, Physics, 2001, Hong Kong University of Science and Technology, Hong Kong

Doctor of Philosophy, Physics, 2007 (expected), Kent State University, Kent, OH U.S.A.

SPECIAL SKILLS

Experimental Skills: Brewster Angle Microscope, Surface pressure and potential measurements, X-Ray experiments on Langmuir film, Atomic Force Microscope, Scanning Tunneling Microscope, basic mechanical manipulation

Computer Skills: Microcal Origin, Ulead VideoStudio, Microsoft Word, Excel, Powerpoint, Scion Image

RESEARCH EXPERIENCE

1. Line tension and structure of liquid crystal Langmuir film
2. Hydrodynamics of Langmuir film at air/water interface
3. Tribology of Self-Assembled Monolayers

TEACHING EXPERIENCE

1. University Physics, experiment section (2 years).
2. College Physics, experiment and recitation sections (1 year).
3. Classical Mechanics, experiment and recitation sections (2 years)

PROFESSIONAL ACTIVITIES

- Conferences:**
- 78th ACS Colloid and Surface Science Symposium, in Yale University, 2004 (presentation)
 - Liquid Crystal Day, in Liquid Crystal Institute, Kent State University, 2005 (poster)
 - Ohio Section of American Physics Society, in Cleveland State University, 2005 (presentation)
 - 80th ACS Colloid and Surface Science Symposium, in Boulder, 2006 (presentation)
 - Ohio Section of American Physics Society, in Akron University, 2006 (presentation)

Training: - 2005 Neutron and X-ray National School in Argonne National Lab

PUBLICATIONS

1. Langmuir Monolayers of Bend-Core Molecules, *Langmuir*, **2004**, 20, 2772-2780
2. Anisotropy in Langmuir Layers of a Bent-Core Liquid Crystal, *Langmuir*, **2006**, 22, 3198-3206
3. Hole Dynamics in Polymer Langmuir Films, *Physics of Fluid*, **2006**, 18, 062103
4. Domain Relaxation in Langmuir Films, *J. Fluid Mech.*, **2007**, 571: 191-219
5. Determination of Inter-Phase Line Tension in Langmuir Films, accepted by *PRE*
6. Line Tension and Structure of Smectic Liquid Crystal Multilayers at the Air-Water Interface, submitted

REFERENCES

Available upon request