

Supporting Information

**Anisotropic Polymer Adsorption on Molybdenite Basal and Edge
Surfaces and Interaction Mechanism with Air Bubbles**

*Lei Xie¹, Jingyi Wang¹, Jun Huang¹, Xin Cui¹, Xiaogang Wang², Qingxia Liu¹, Hao Zhang¹,
Qi Liu¹, and Hongbo Zeng^{1,*}*

¹*Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Alberta,
T6G 1H9, Canada*

²*College of Material Science & Engineering, Heavy Machinery Engineering Research Center of
Education Ministry, Taiyuan University of Science and Technology, Taiyuan 030024, China*

**Email: hongbo.zeng@ualberta.ca, Phone: +1-780-492-1044, Fax: +1-780-492-2881*

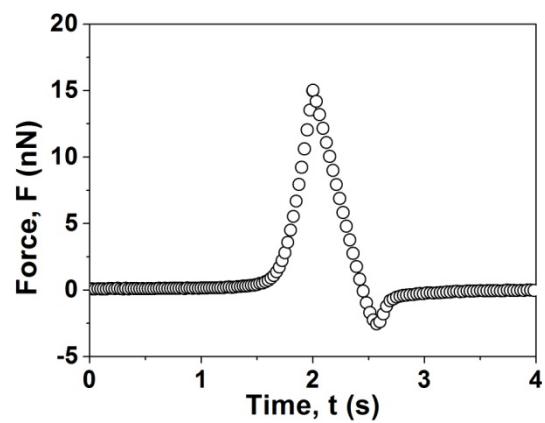


Figure S1. Interaction forces between an air bubble ($R = 74 \mu\text{m}$) and a treated MoS_2 basal plane conditioned in 100 ppm CMC solution in 500 mM NaCl at $v = 1 \mu\text{m/s}$.