

Supplementary Information

Fabrication of Long-Term Underwater Superoleophobic Al Surfaces and Application on Underwater Lossless Manipulation of Non-Polar Organic Liquids

Jinlong Song^{1,‡}, Liu Huang^{1,‡}, Yao Lu², Xin Liu^{1,*}, Xu Deng³, Xiaolong Yang¹, Shuai Huang¹, Jing Sun¹, Zhuji Jin¹ & Ivan P. Parkin²

¹ Key Laboratory for Precision and Non-Traditional Machining Technology of Ministry of Education, Dalian University of Technology, Dalian 116024, China.

² Department of Chemistry, University College London, 20 Gordon Street, London, WC1H 0AJ, UK.

³ Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu 610054, China.

*Corresponding.xinliu@dlut.edu.cn.

Supplementary Video

Supplementary Video S1: The moving process of dichloromethane on the EEBEI Al surfaces shows very small contact angle hysteresis.

Supplementary Video S2: The touch and departure processes of organic liquid droplets on the EEBEI Al surfaces.

Supplementary Video S3: The dichloromethane with volume of 12 μL can be manipulated.

Supplementary Video S4: The dichloromethane with volume of 13 μL cannot be manipulated.