

Fig.1. TEM images: a) Pure WS₂ showing clear basal orientation; b) WS₂/a-C coating showing WS₂ platelets randomly distributed in amorphous carbon matrix.

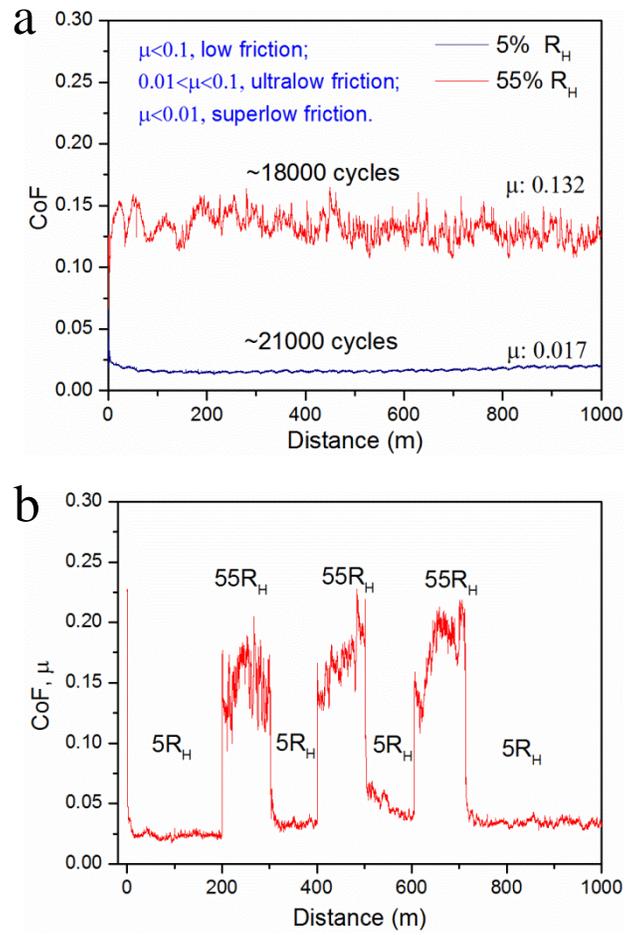


Fig.2. Tribotests showing a) ultralow friction at low humidity and b) self-adaptive behavior to humidity.