Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

Supporting Information

On the Ionic Liquid Film 'Pinned' by Core-Shell Structured Fe_3O_4@Carbon Nanoparticles and Their Tribological Properties

Rong An,[*ab] Muqiu Wu,[a] Jing Li,[c] Xiuhua Qiu,[a] Faiz Ullah Shah,[d] and Jianliang Li [e]

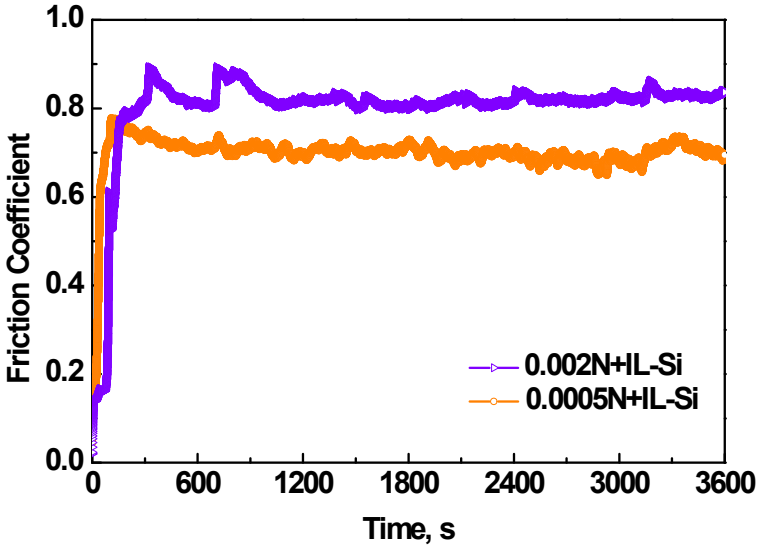
[a] Herbert Gleiter Institute of Nanoscience, Department of Materials Science and Engineering, Nanjing University of Science and Technology, Nanjing 210094, P.R. China

[b] Center for Nanotechnology (CeNTech), Institute of Physics, Westfälische Wilhelms-Universität Münster, 48149 Münster, Germany

[c] State Key Laboratory of Materials Oriented Chemical Engineering, College of Chemical Engineering, Nanjing Tech University, Nanjing 211816, P.R. China

[d] Chemistry of Interfaces, Luleå University of Technology, 97187 Luleå, Sweden

[e] Department of Materials Science and Engineering, Nanjing University of Science and Technology, Nanjing 210094, P.R. China



(a)

(b)

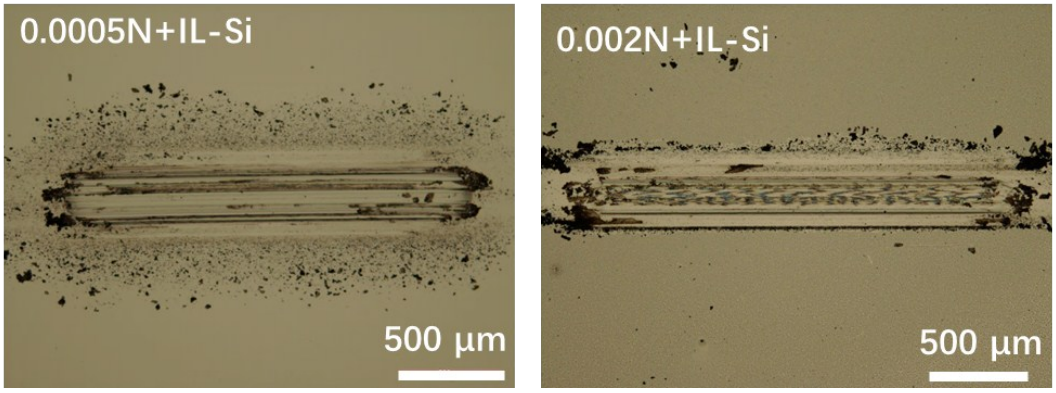


Fig. S1 (a) The macroscale friction coefficient, (b) the corresponding optical image after tribological test for 0.0005N+IL-Si and 0.002N+IL-Si.