

## Transforming Organic Molecular Film into Carbon Film as Solid Lubricant

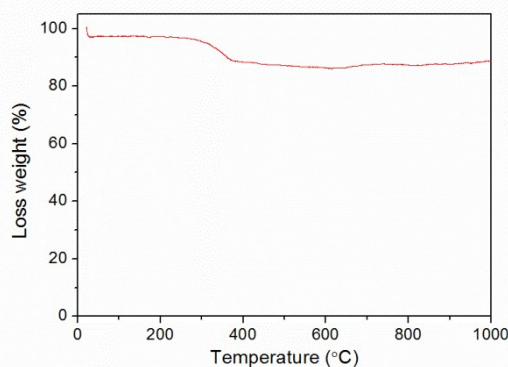
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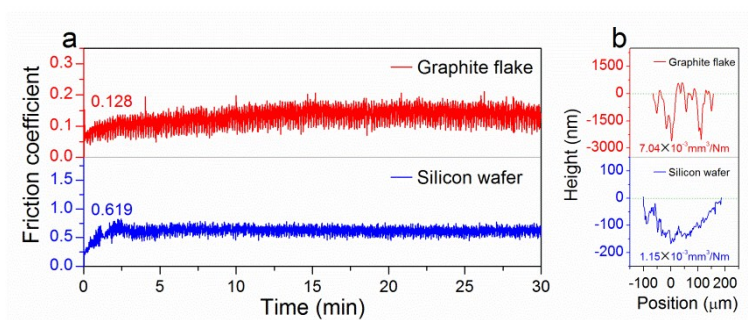
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**Figure S1** TG curve of TCA molecular film deposited at 30V (TCAF30-u).



**Figure S2** (a) Friction coefficient vs. time curves and (b) 2D profile plots of wear tracks for graphite flake and bare silicon wafer, respectively. Conditions for friction experiments: load = 20 mN, sliding velocity = 0.01 m/s.