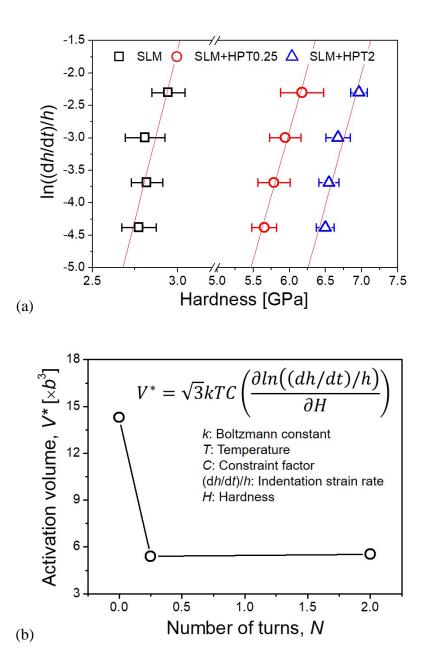
## **Supplementary Information**



**Figure S1** Restuls of nanoindentation experiments under various indentation strain rate (dh/dt)/h: (a) Logarithmic strain rate versus linear stress; (b) change in activation volume,  $V^*$ , upon HPT processing.