

# Supplementary Materials for ‘Atomistic Investigation of Titanium Carbide $\text{Ti}_8\text{C}_5$ under Impact Loading’

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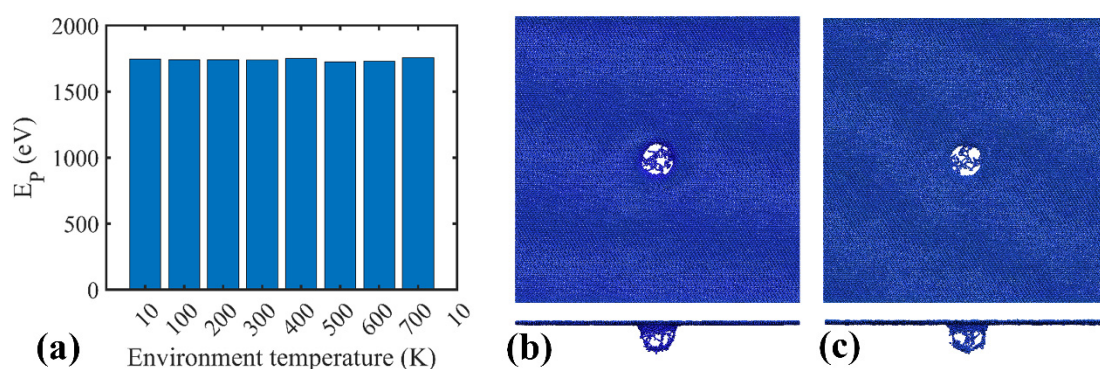


Figure S1. The penetration profile for  $\text{Ti}_8\text{C}_5$  nanosheet subjected to impact velocity of 3 km/s. (a) Penetration energy of  $\text{Ti}_8\text{C}_5$  nanosheet with environment temperature up to 700 K. (b)  $\text{Ti}_8\text{C}_5$  nanosheet deformation with environment temperature of 10 K at simulation time of 2.8 ps. (c)  $\text{Ti}_8\text{C}_5$  nanosheet deformation with environment temperature of 700 K at simulation time of 2.8 ps.