

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Crack propagation behavior in the $\text{Gd}_2\text{Zr}_2\text{O}_7$ model.

File Name: Supplementary Movie 2

Description: Crack bridging in HEPO during propagation process.

File Name: Supplementary Movie 3

Description: Crack deflection in HEPO during propagation process.