

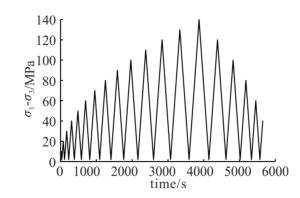
Supplementary Figure S1 Relationships between dissipated energy and elastic strain energy of rock



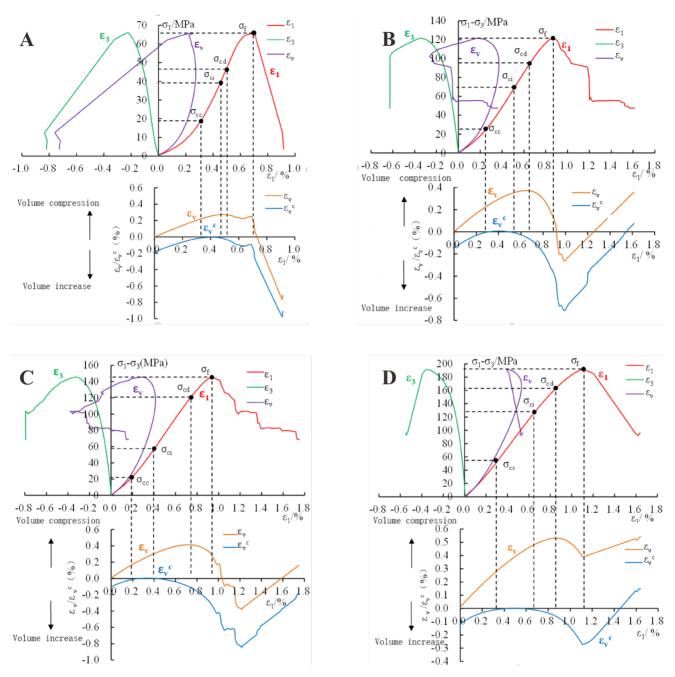
Supplementary Figure S2 Specimens of yellow sandstone



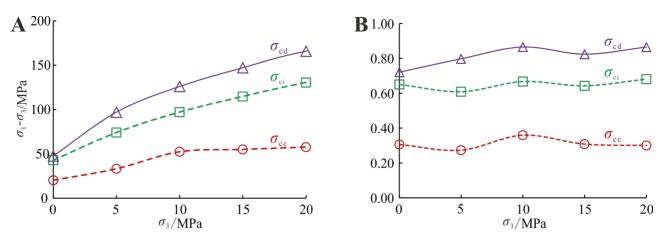
Supplementary Figure S3 The servo-controlled rheology testing machine



Supplementary Figure S4 Schematic diagrams of the stress path



Supplementary Figure S5 Stress-strain curves and characteristic stress of sandstone. (A)  $\sigma_3$ =0 MPa. (B)  $\sigma_3$ =5 MPa. (C)  $\sigma_3$ =10 MPa. (D)  $\sigma_3$ =20 MPa



Supplementary Figure S6 Characteristic stress of sandstone under different confining pressure. (A)

Characteristic stress. (B) Normalized characteristic stress