



Fig. S1. Changes of (A) body mass, (B) body size, (C) length of the tibia and (D) radius of gyration of the tibia at all postembryonic developmental stages of the stick insect *C. morosus*.



Movie 1. The onset and evolution of local buckling in a tibia specimen at the fifth nymphal stage (L5).



Movie 2. The onset and evolution of Euler buckling in a tibia specimen at the adult stage.