

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: Folding motion of triangulated cylindrical origami

File Name: Supplementary Movie 2

Description: Prototype fabrication

File Name: Supplementary Movie 3

Description: Experimental demonstration of chaotic folding motion of TCO

File Name: Supplementary Movie 4

Description: Comparison between 3D reconstructions and QRNN predictions of TCO motion

File Name: Supplementary Movie 5

Description: Phase plane for each excitation