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## **Supplementary Information**

**SI Figure.** SEM images show the  $Bi_2Te_3$  nanoplatelet adsorption density could be controlled by varying the adsorption duration. The samples were prepared with the same  $\mu$ CP conditions, and then immersed in the nanoplatelet dispersion under a mild vortex for (a) 2 minutes, (b) 10 minutes, and (c) 20 minutes, respectively. With 20 minute adsorption, the AMTMS printed houndstooths were fully covered by  $Bi_2Te_3$  nanoplatelets.

