

## **Description of Additional Supplementary Files**

**File Name:** Supplementary Movie 1

**Description:** Representative microstructures of the first dataset

**File Name:** Supplementary Movie 2

**Description:** Representative microstructures of the second dataset

**File Name:** Supplementary Movie 3

**Description:** Representative microstructures of the third dataset

**File Name:** Supplementary Movie 4

**Description:** Representative microstructures of the fourth dataset

**File Name:** Supplementary Movie 5

**Description:** Experiment on the liquid permeability of six structures