Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Video information

Video 1 The working procedure of the device when conducted manually.

Video 2 The working setup and method of our PEG, and powering the LEDs when the temperature of the hot water is 80℃.

Video 3 The procedure of driving LEDs when the temperature of the hot water is 60℃.

Video 4 The procedure of driving LEDs when the temperature of the hot water is 40℃.