

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: The preparation of a PAH fiber from the optimal PAAS solution.

File Name: Supplementary Movie 2

Description: The water sensitivity of a PAH fiber and the water resistance of a MAPAH fiber at stretched status (~ 200% elongation).

File Name: Supplementary Movie 3

Description: The hysteresis effect during a MAPAH fiber's recovery after a large elongation.

File Name: Supplementary Movie 4

Description: A MAPAH fiber serves as a highly stretchable wire in an electric circuit.