

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: hydrogen evolution of Co-MoS_x/AZCS under Xe lamp light.

File Name: Supplementary Movie 2

Description: hydrogen evolution of Co-MoS_x/AZCS under natural sunlight.

File Name: Supplementary Movie 3

Description: a flexible Co-MoS_x/AZCS film with repeated bending.

File Name: Supplementary Movie 4

Description: hydrogen evolution of a flexible Co-MoS_x/AZCS film under Xe lamp light.

File Name: Supplementary Movie 5

Description: hydrogen evolution of a flexible Co-MoS_x/AZCS film under natural sunlight.