

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Free movement of dyed electrolyte in the capillaries of glass foam.

File Name: Supplementary Movie 2

Description: Prototype of hydrogen generation tower.

File Name: Supplementary Movie 3

Description: Effect of solar intensity.

File Name: Supplementary Movie 4

Description: Real-time hydrogen generation by solar-driven DAE.

File Name: Supplementary Movie 5

Description: Real-time hydrogen generation by DAE coupled with wind turbine.