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Fig. S1. The influence of pH on the surface Zeta Potential of  $Ni_2P$  and  $\gamma$ -Ga<sub>2</sub>O<sub>3</sub>.

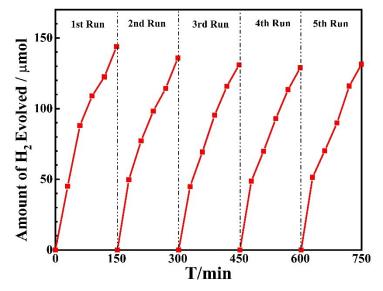




Fig. S2. Photocatalytic  $H_2$  evolution cycles on NG-0.5 in pure water.