

Supporting Information:

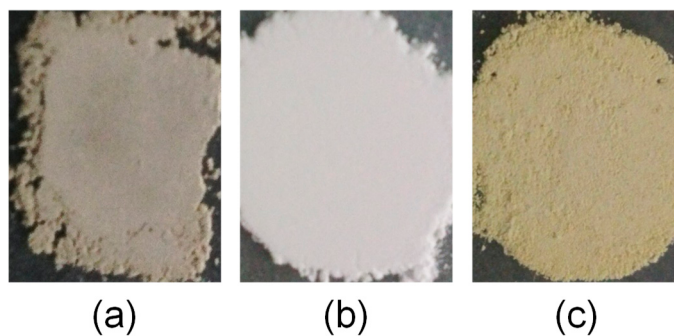


Figure S1. The photograph of (a) SrTiO₃-D15, (b) pristine SrTiO₃ and (c) pristine g-C₃N₄ nanosheet.

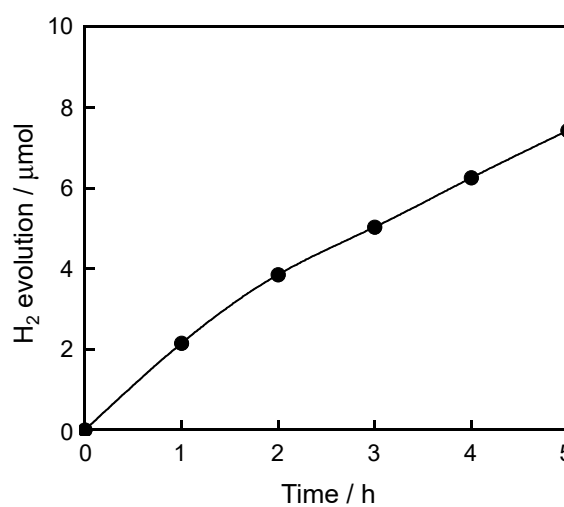


Figure S2. Time course of H₂ evolution reaction over 0.2 wt% Pt loaded SrTiO₃-D15 under visible light irradiation ($\lambda > 420$ nm).

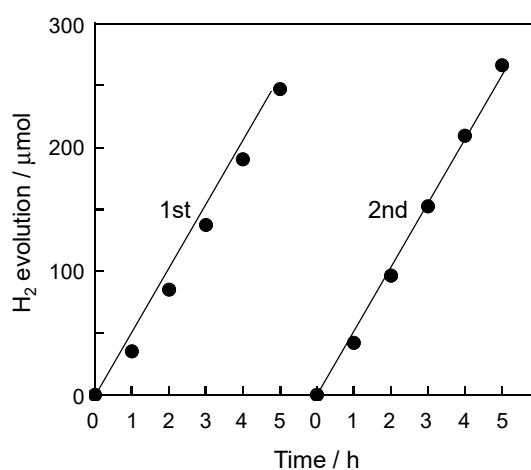


Figure S3 The repeated photocatalytic H₂ evolution on Pt/SrTiO₃-D15 under UV irradiation ($\lambda > 250$ nm).

Table S1. The position and d-spacing of diffraction peak due to (110) plane in XRD patterns of SrTiO₃ and doped samples

sample	peak position (2 θ) / deg.	d-spacing / nm
SrTiO ₃	32.27	0.2772
SrTiO ₃ -D10	32.38	0.2763
SrTiO ₃ -D15	32.34	0.2766
SrTiO ₃ -D20	32.34	0.2766
SrTiO ₃ -D25	32.33	0.2767
SrTiO ₃ -D30	32.30	0.2769