Supplementary file:

Micro-kinetic modelling of photocatalytic CO_2 reduction over undoped and N-doped TiO_2

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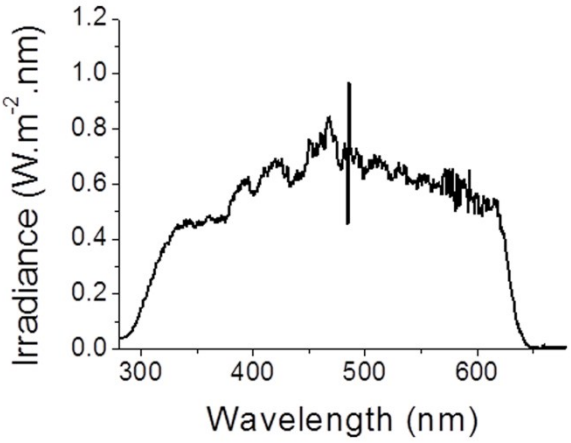

Fig. S1 Total lamp irradiance spectra

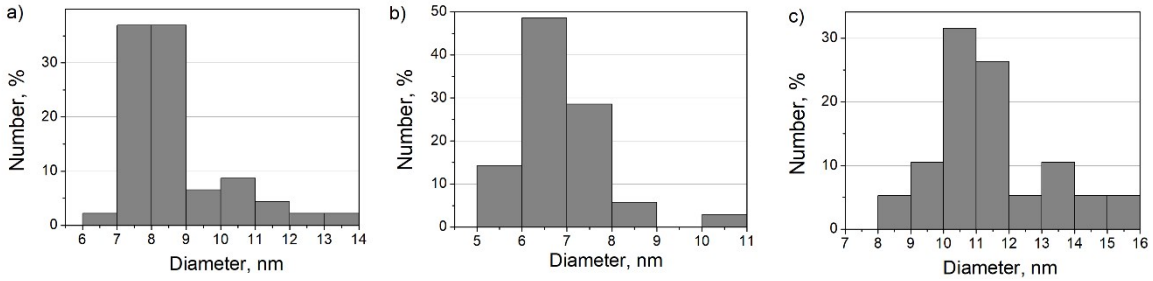

Fig. S3 The particle size distribution of: a) undoped TiO_2, b) N-TiO_2(G) and c) N-TiO_2(P) catalyst calculated by manual measurement of about 30 particles observed from the TEM images.

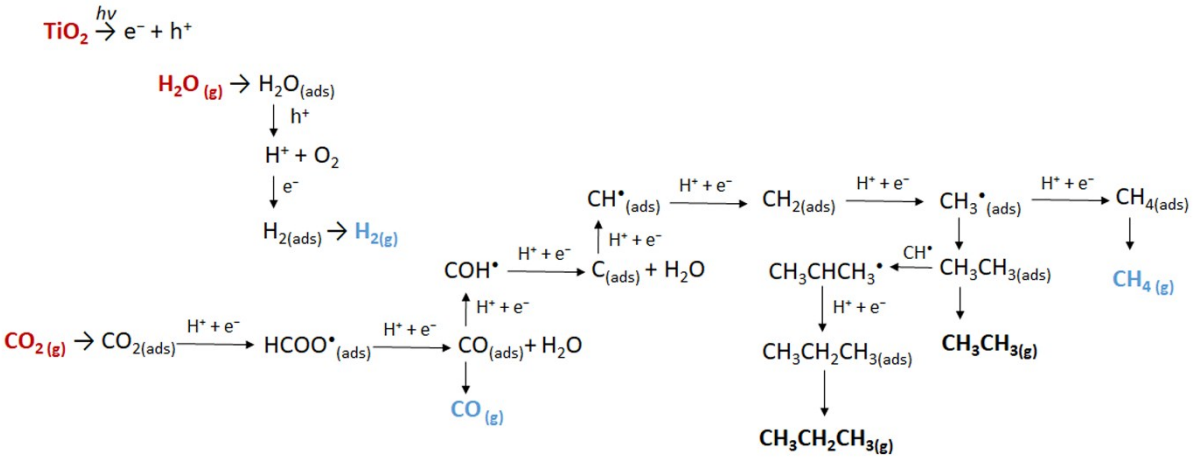

Fig. S3 The reaction pathway scheme. The input reactants TiO_2, CO_2 and H_2O are presented in red, whereas final products H_2, CO and CH_4 are in blue. As CH_3CH_3 and $CH_3CH_2CH_3$ were produced in negligible amount, they are left in black.a