Electronic Supplementary Material (ESI) for Faraday Discussions.

Supporting Information

Influence of Carbonaceous Species on Aqueous Photo-catalytic Nitrogen Fixation by Titania

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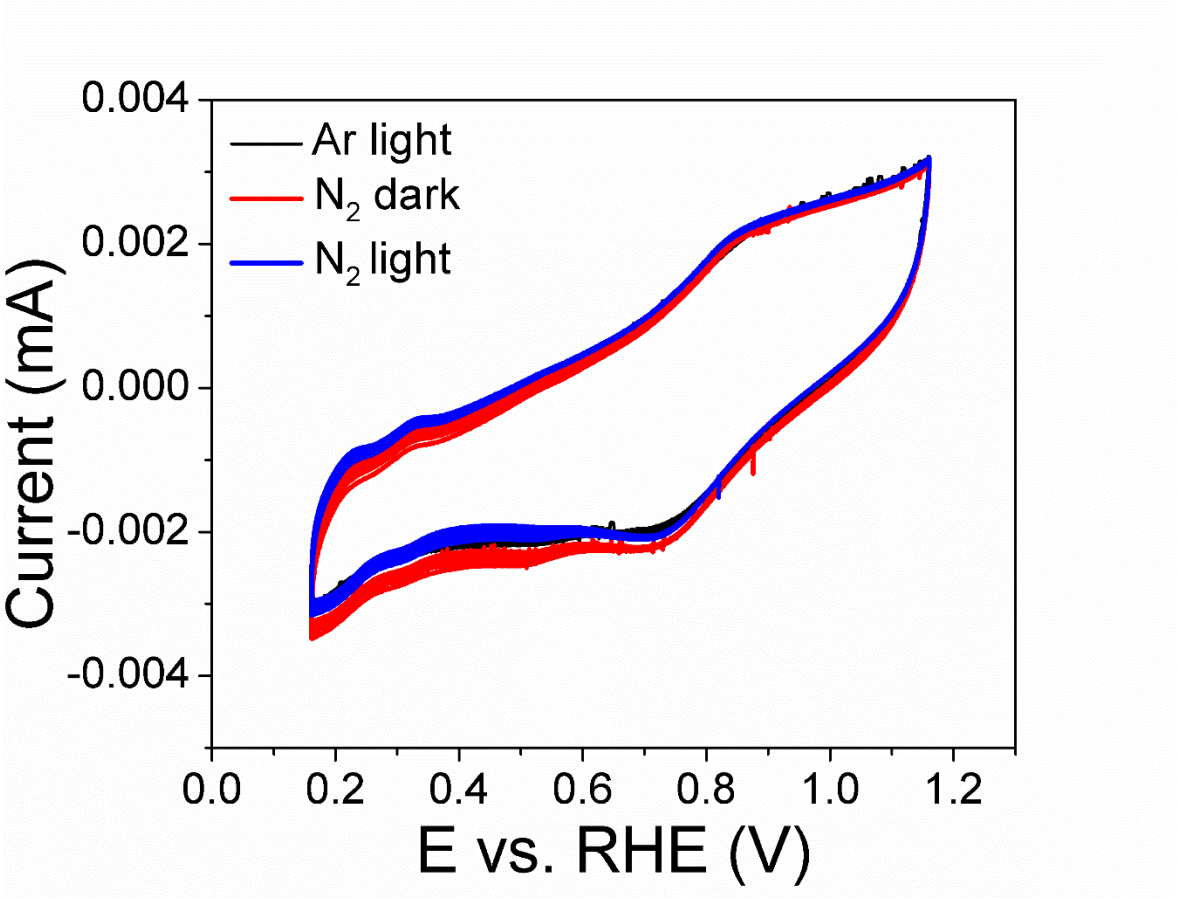

Fig. S1 Rotating ring disk electrode experiments with and without light illumination in argon and nitrogen atmospheres on Pt disc.

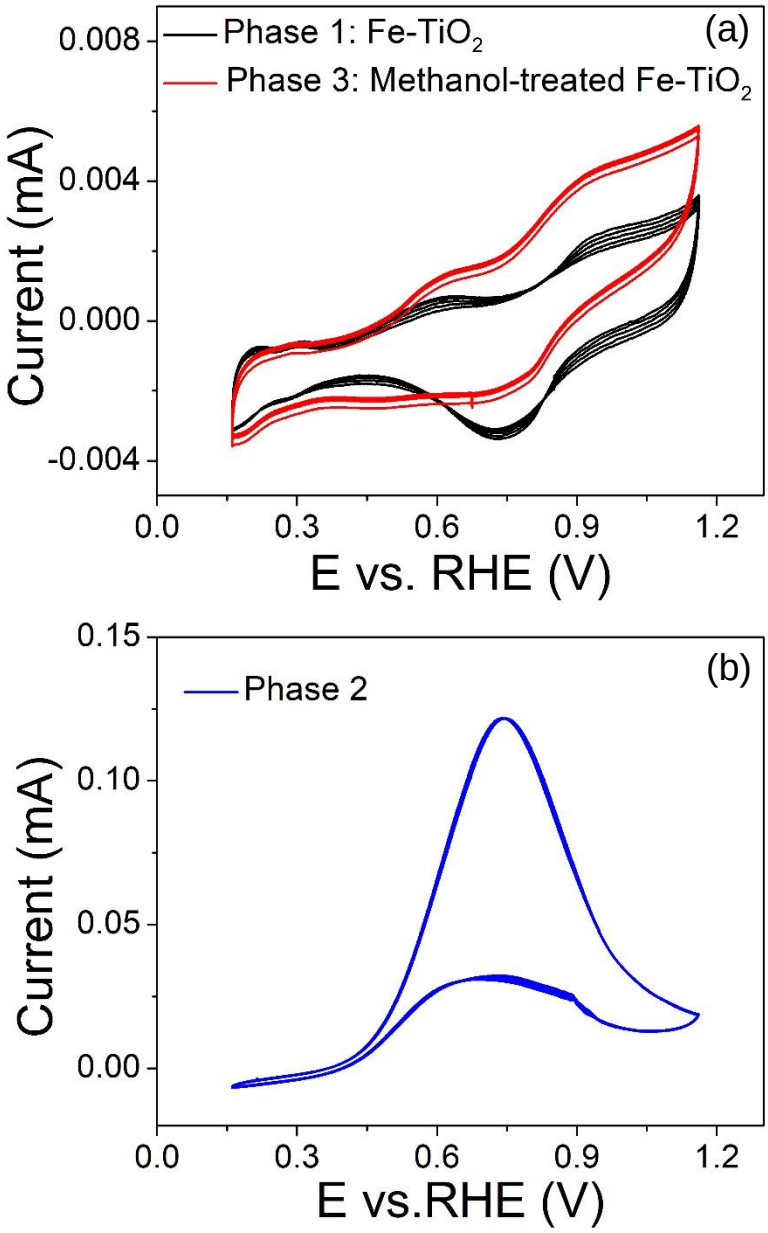

Fig. S2 Rotating ring disk electrode experiments with light illumination in nitrogen gas on rutile TiO_2 in three phases. Each phase presented the same catalyst by recycling. (a) Comparison of phase 1 and 3. (b) phase 2 with methanol addition

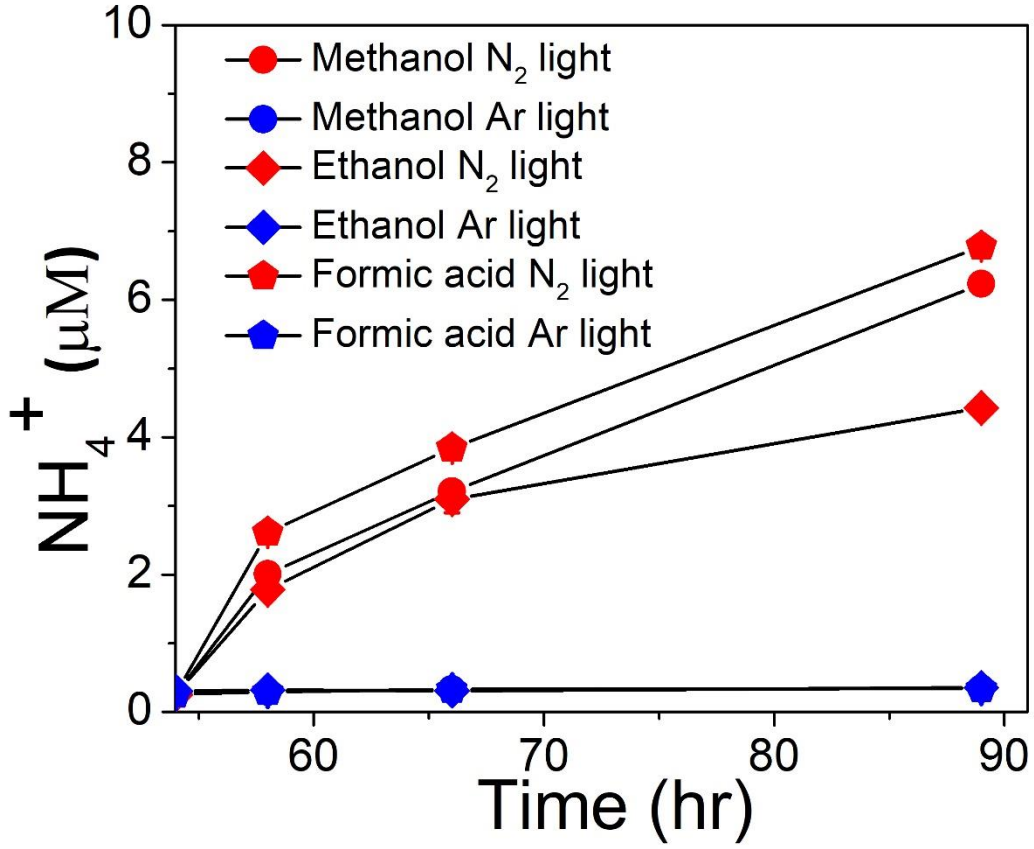

Fig. S3 Other carbonaceous species effect on photo-catalytic testing by rutile TiO_2 in phase 3 inlcuding methanol, ethanol and formic acid.