

Fig. S1 Different reaction pathways (a) Distal, (b) Alternating, (c) Enzymatic pathway with corresponding limiting potential on Ag site for eNRR mechanism on  $Ag_3PO_4$  unit cell

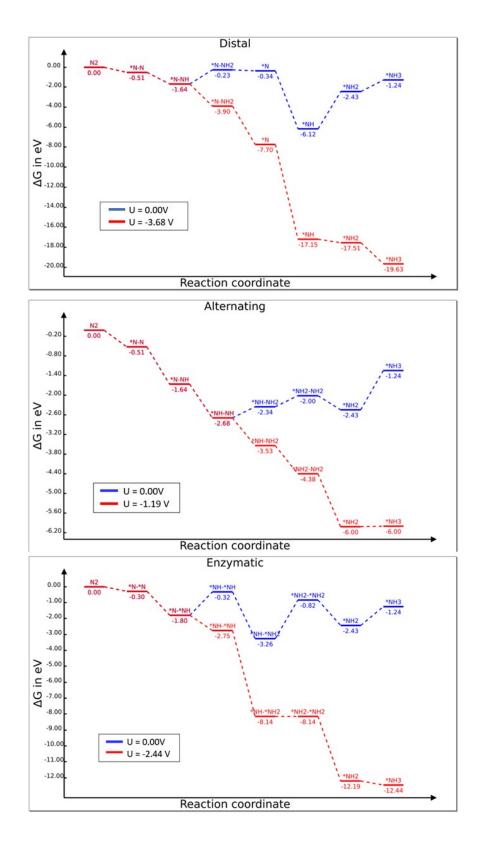


Fig. S2 Different reaction pathways (a) Distal, (b) Alternating, (c) Enzymatic pathway with corresponding limiting potential on O site for eNRR mechanism on  $Ag_3PO_4$  unit cell

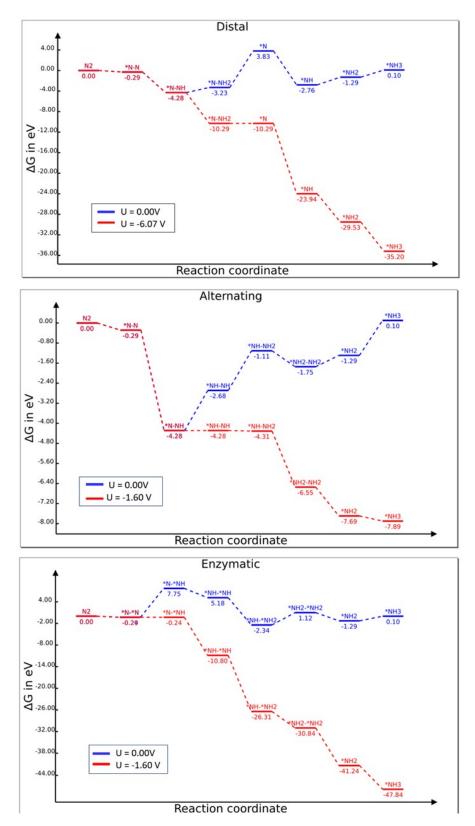


Fig. S3 Different reaction pathways (a) Distal, (b) Alternating, (c) Enzymatic pathway with corresponding limiting potential on P site for eNRR mechanism on  $Ag_3PO_4$  unit cell