



*Research article*

## **CO<sub>3</sub><sup>2-</sup> enhanced electron transfer and enzyme stabilization overcome the ion inhibition paradigm in aerobic denitrification**

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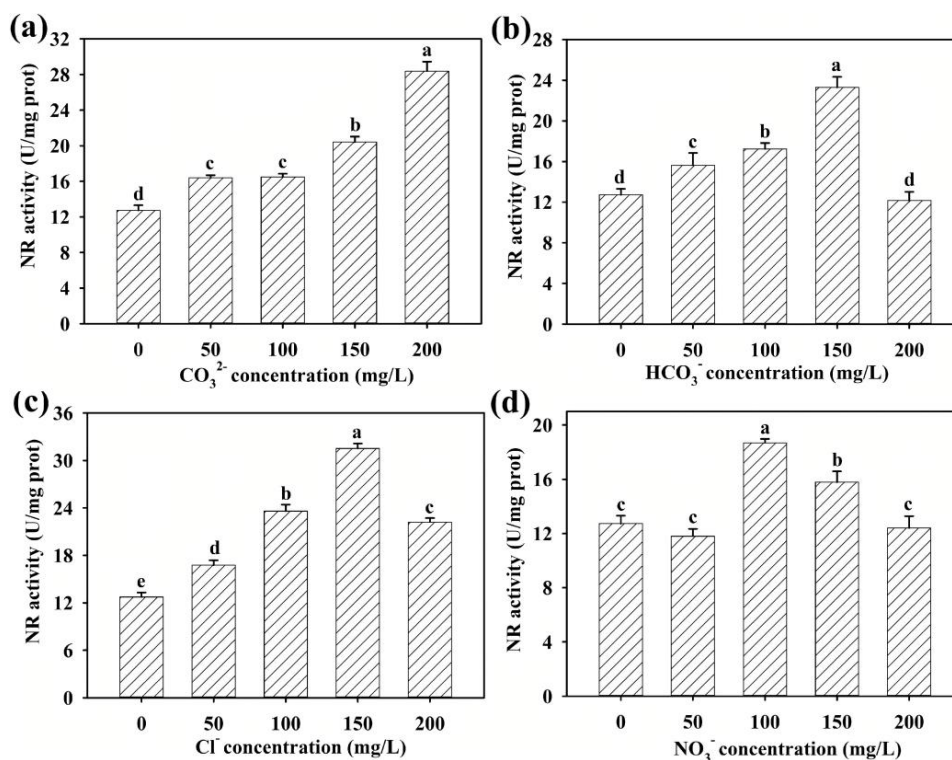
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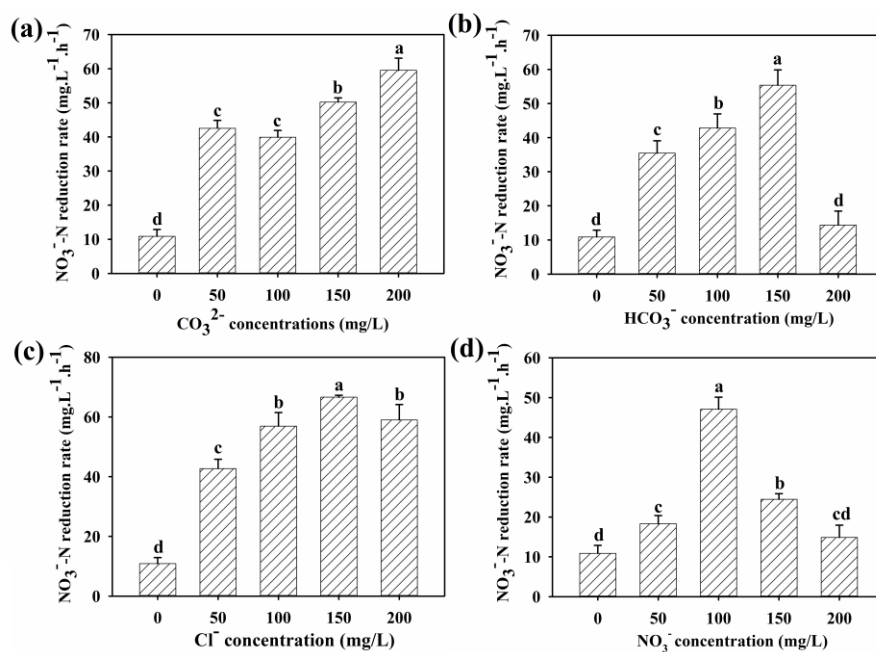
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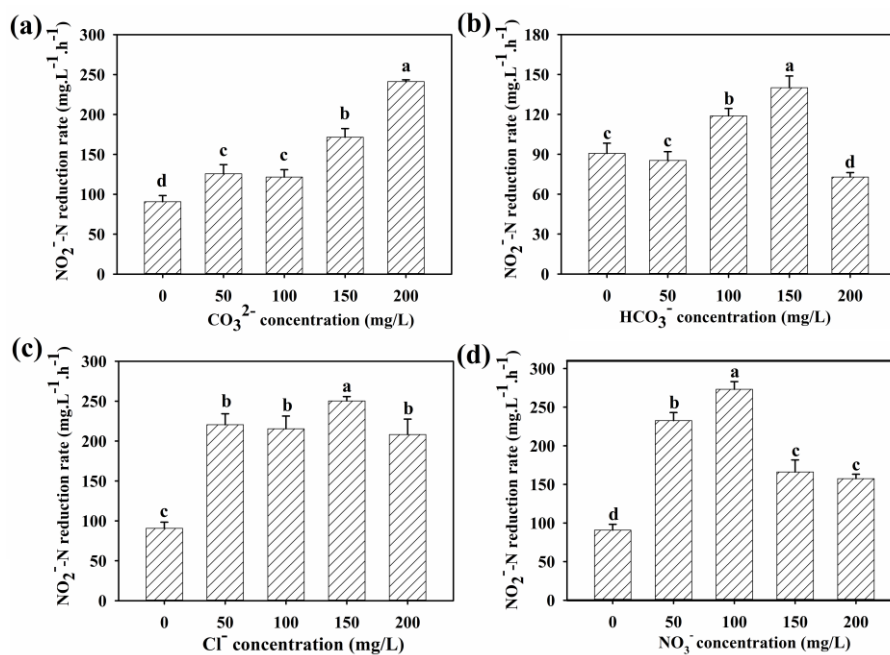
**Supplementary materials**



**Figure S1.** Effect of ions on the removal of  $\text{NH}_4^+$ -N removal rate by strain H6 ((a):  $\text{CO}_3^{2-}$ ; (b):  $\text{HCO}_3^-$ ; (c):  $\text{Cl}^-$ ; and (d):  $\text{NO}_3^-$ ).



**Figure S2.** Effect of ions on the removal of  $\text{NO}_3^-$ -N reduction rate by strain H6 ((a):  $\text{CO}_3^{2-}$ ; (b):  $\text{HCO}_3^-$ ; (c):  $\text{Cl}^-$ ; and (d):  $\text{NO}_3^-$ ).



**Figure S3.** Effect of ions on the removal of  $\text{NO}_2^-$ -N reduction rate by strain H6 ((a):  $\text{CO}_3^{2-}$ ; (b):  $\text{HCO}_3^-$ ; (c):  $\text{Cl}^-$ ; and (d):  $\text{NO}_3^-$ ).



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