

**Table S1** Physical and chemical properties of the soil in Qingpu Modern Agricultural Park

| pH   | EC<br>( $\mu\text{S cm}^{-1}$ ) | TN<br>( $\text{g kg}^{-1}$ ) | $\text{NH}_4^+$<br>( $\text{mg kg}^{-1}$ ) | $\text{NO}_2^-$<br>( $\text{mg kg}^{-1}$ ) | MBN<br>( $\text{mg kg}^{-1}$ ) | MBC<br>( $\text{mg kg}^{-1}$ ) |
|------|---------------------------------|------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------|--------------------------------|
| 5.77 | 151.20                          | 1.61                         | 7.64                                       | 0.24                                       | 46.82                          | 211.90                         |