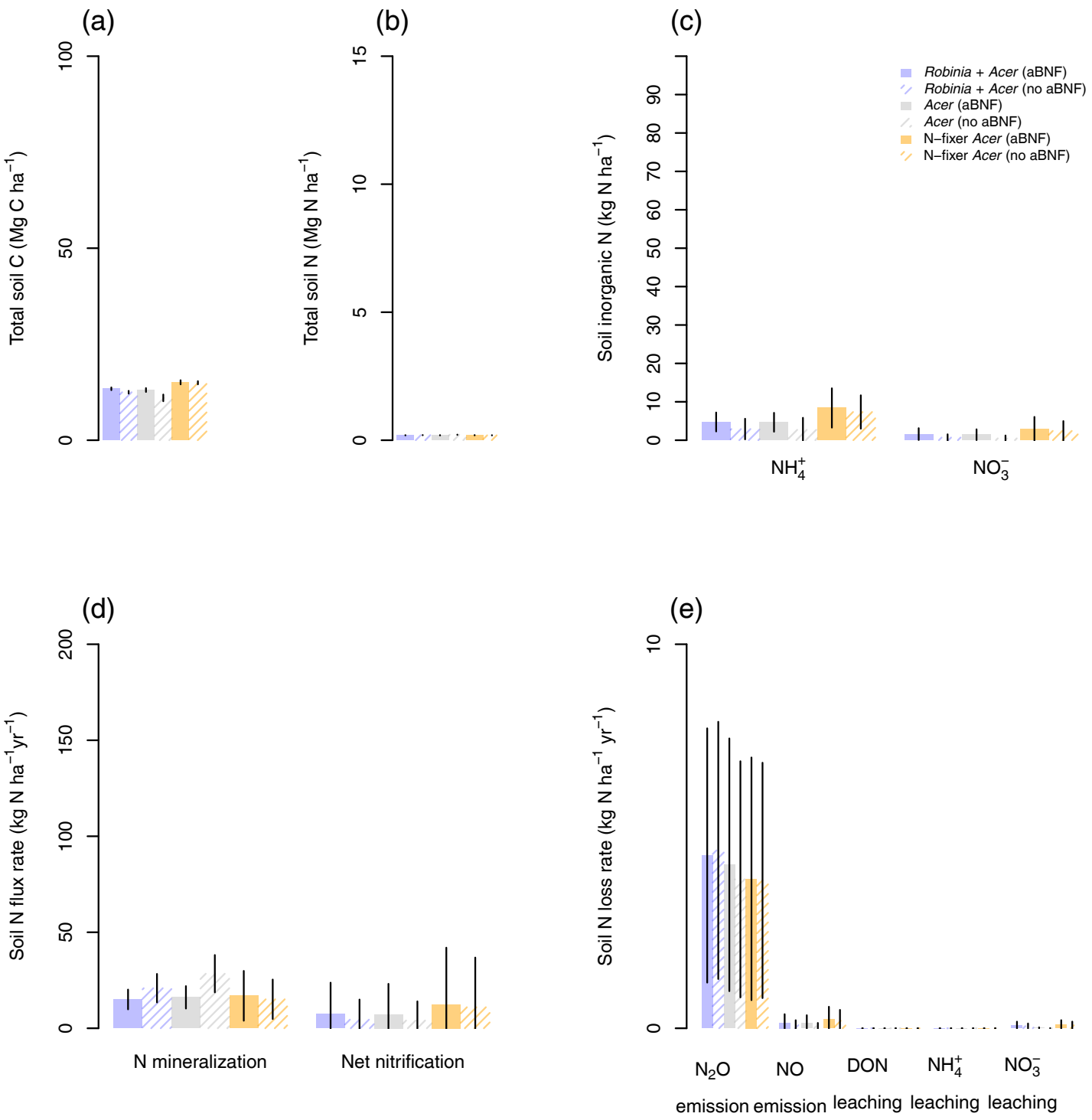
(a)
Total soil C (Mg C ha$^{-1}$)
0
50
100
(b)
Total soil N (Mg N ha$^{-1}$)
0
5
10
15
(c)
Soil inorganic N (kg N ha$^{-1}$)
0
10
20
30
40
50
60
70
80
90
$NH_4^+$
$NO_3^-$
*Robinia* + *Acer* (aBNF)
*Robinia* + *Acer* (no aBNF)
*Acer* (aBNF)
*Acer* (no aBNF)
N–fixer *Acer* (aBNF)
N–fixer *Acer* (no aBNF)
(d)
Soil N flux rate (kg N ha$^{-1}$yr$^{-1}$)
0
50
100
150
200
N mineralization
Net nitrification
(e)
Soil N loss rate (kg N ha$^{-1}$ yr$^{-1}$)
0
10
$N_2O$ emission
NO emission
DON leaching
$NH_4^+$ leaching
$NO_3^-$ leaching