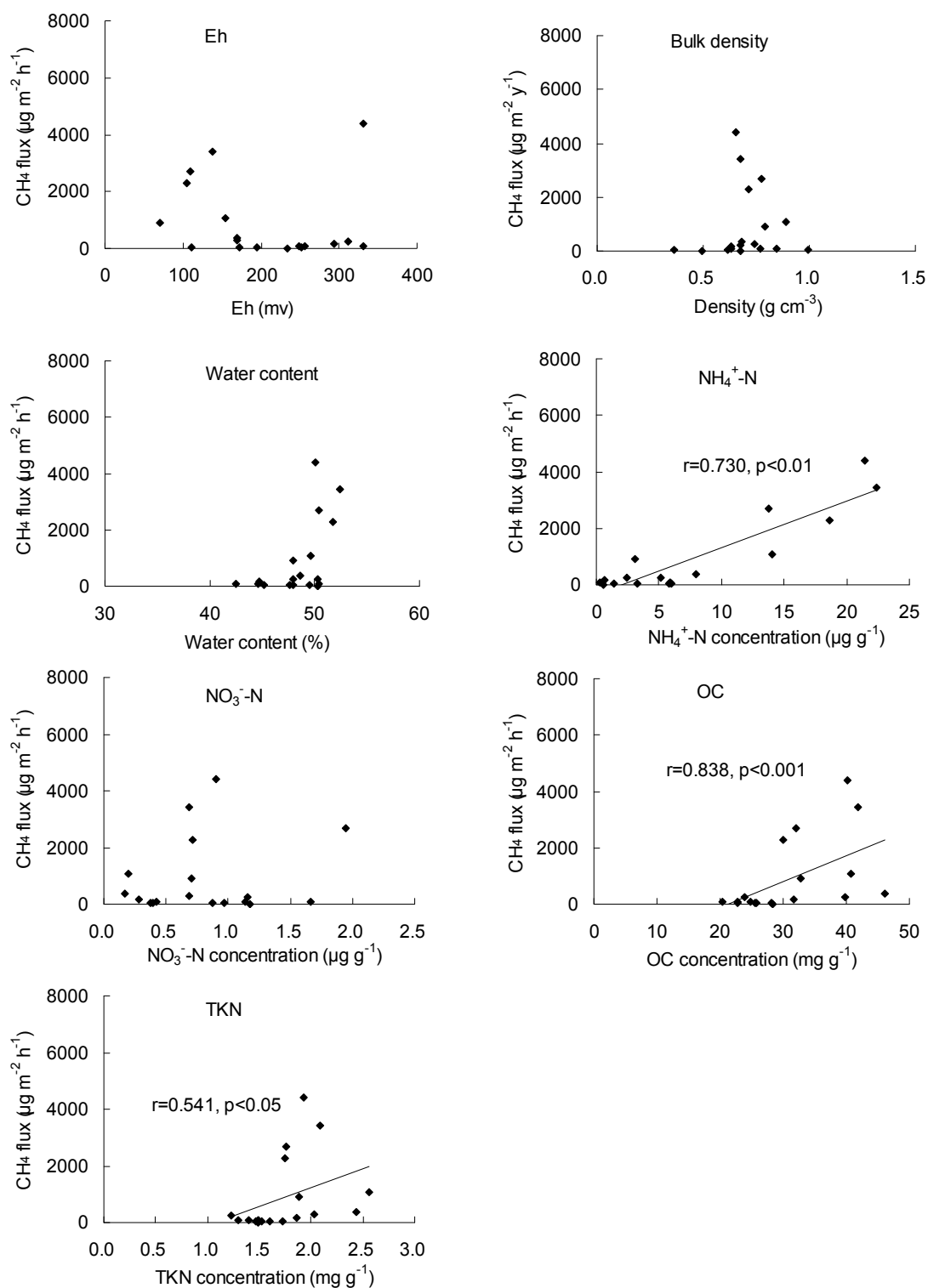Supplementary Fig. 1 Relationship between the soil parameters and the N_2O flux. Solid lines represent the fitted regression equations, and r is the corresponding linear correlation coefficient between the soil parameter and normalized flux.
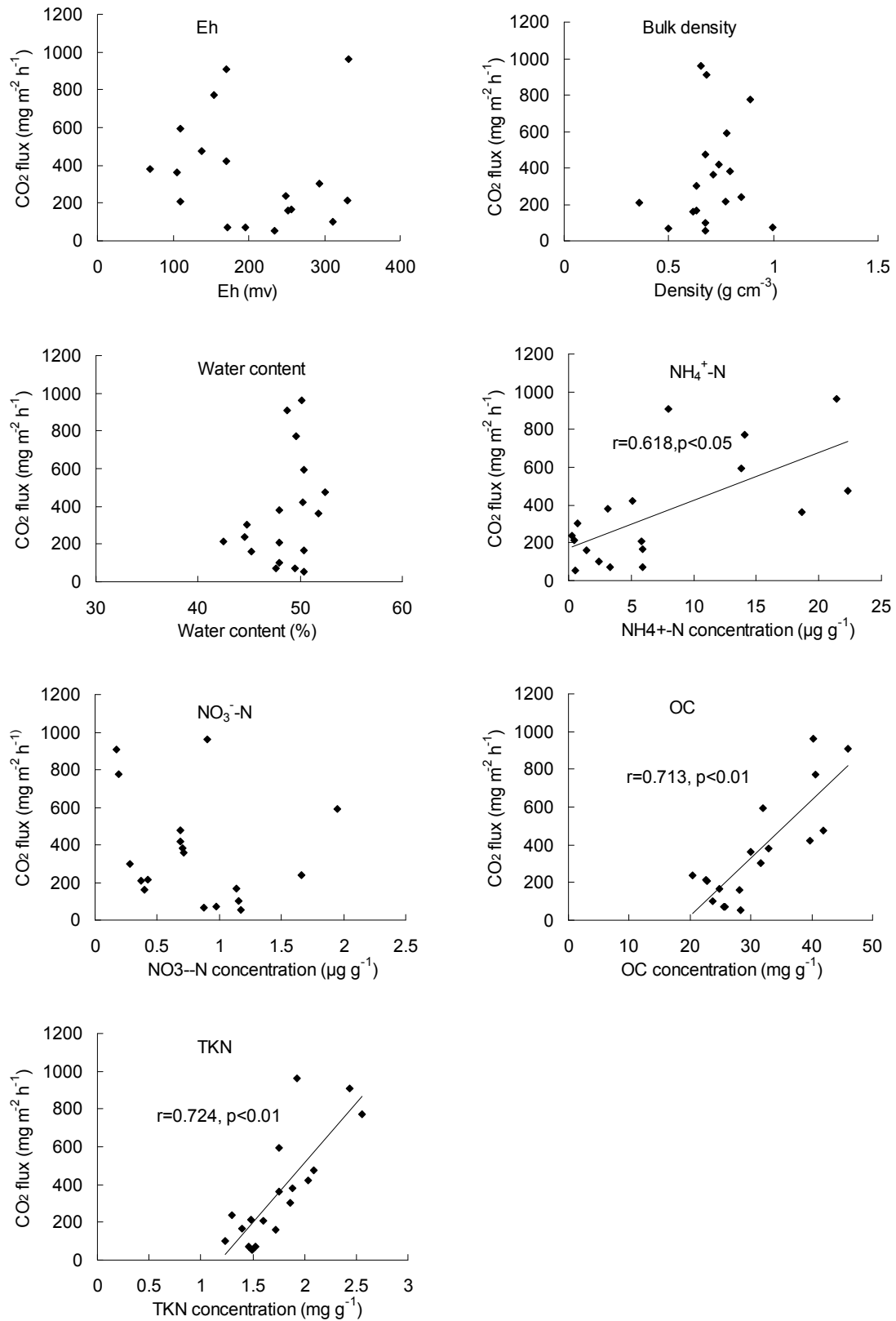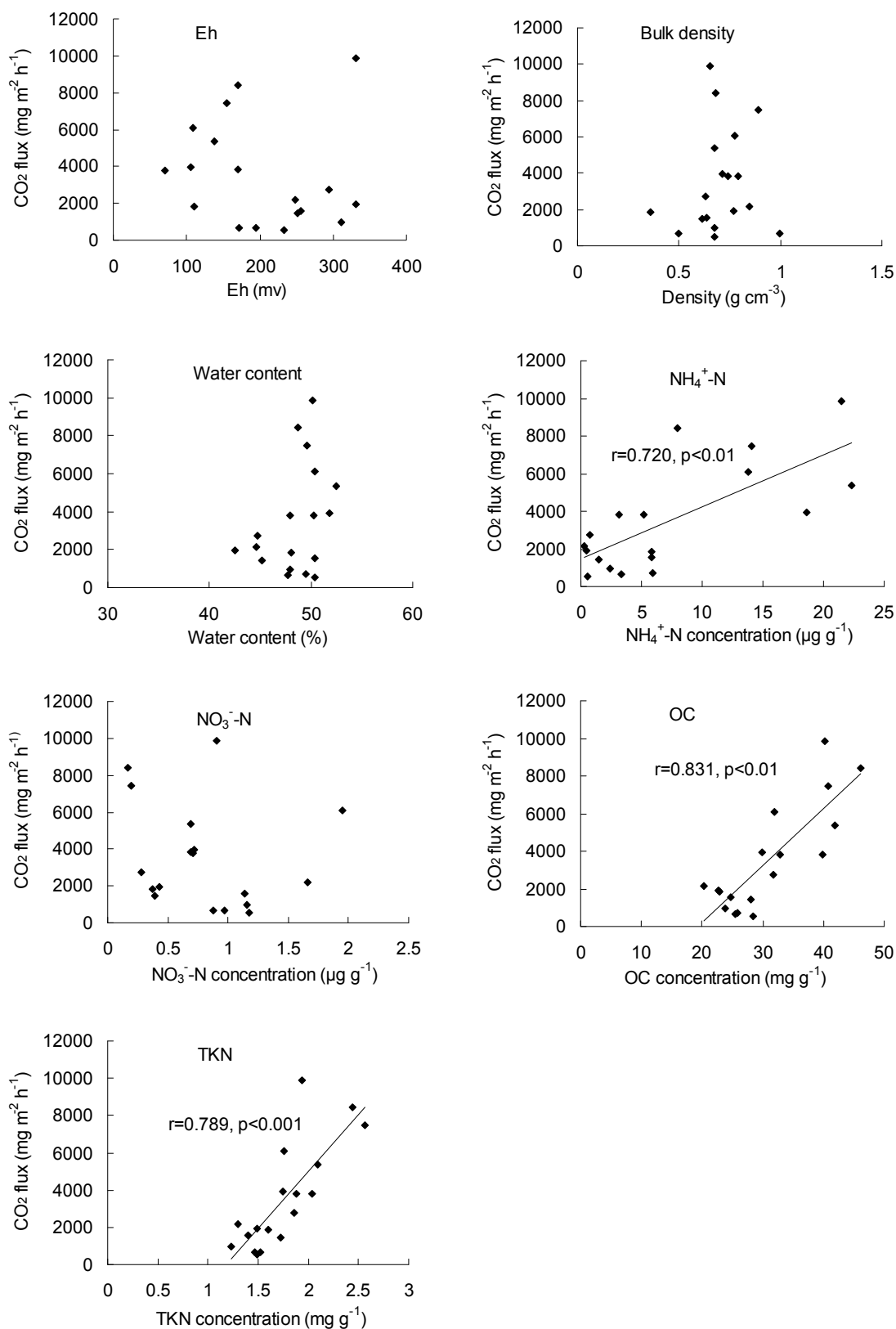
Supplementary Fig. 2 Relationship between the soil parameters and the CH_4 flux. Solid lines represent the fitted regression equations, and r is the corresponding linear correlation coefficient between the soil parameter and normalized flux.

Supplementary Fig. 3 Relationship between the soil parameters and the CO_2 flux. Solid lines represent the fitted regression equations, and r is the corresponding linear correlation coefficient between the soil parameter and normalized flux.

Supplementary Fig. 4 Relationship between the soil parameters and the total CO_2-equivelent flux of the three gases. Solid lines represent the fitted regression equations, and r is the corresponding linear correlation coefficient between the soil parameter and normalized flux.