Fig. S1 (a) C and (b) N percentage of the pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha\textsuperscript{-1} biochar (0B, 10B and 20B, respectively) 50 and 100\% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S2 (a) P (g kg⁻¹) and (b) K (g kg⁻¹) concentrations of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha⁻¹ biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S3 (a) S (g kg$^{-1}$) and (b) Ca (g kg$^{-1}$) concentrations of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha$^{-1}$ biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S4 (a) Mg (g kg\(^{-1}\)) and (b) Fe (mg kg\(^{-1}\)) concentrations of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha\(^{-1}\) biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S5 (a) Mn (mg kg$^{-1}$) and (b) Zn (mg kg$^{-1}$) concentrations of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha$^{-1}$ biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S6 Cu concentration (mg kg$^{-1}$) of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha$^{-1}$ biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means ($n = 4$).
Fig. S7 (a) C (kg ha\(^{-1}\)) and (b) N (kg ha\(^{-1}\)) uptake of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha\(^{-1}\) biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S8 (a) P (kg ha\(^{-1}\)) and (b) K (kg ha\(^{-1}\)) uptake of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha\(^{-1}\) biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S9 (a) S (kg ha\(^{-1}\)) and (b) Ca (kg ha\(^{-1}\)) uptake of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha\(^{-1}\) biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S10 (a) Mg (kg ha⁻¹) and (b) Fe (kg ha⁻¹) uptake of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha⁻¹ biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
Fig. S11 (a) Mn (g ha$^{-1}$) and (b) Zn (g ha$^{-1}$) uptake of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha$^{-1}$ biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standard errors of the means (n = 4).
**Fig. S12** Cu (g ha\(^{-1}\)) uptake of pasture biomass at 12 and 24 months in the Arenosol and Cambisol. Treatments include 0, 10 and 20 t ha\(^{-1}\) biochar (0B, 10B and 20B, respectively) 50 and 100% of the recommended fertilizer rate. Treatments with different letters, within each year, are significantly different to each other. Errors bars represent the standards error of the means (n = 4).