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Data S1

Supplementary dataset and R code for statistical analysis.

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File list (files found within DataS1.rar)

DataS1.csv
code for analysis.R

Description

DataS1.csv – List of shrubland sites with information about habitat conditions and communities.

site	Code name of each shrubland site
plotarea	Area of each plot (m ²)
WL.3	Three water availability levels according to GWI
MGT	Mean growing-season temperature (°C)
GPE	Growing-season potential evapotranspiration (mm)
GP	Growing-season precipitation (mm)
GWI	Growing-season wetness index
STN	Soil total nitrogen concentration (mg g ⁻¹)
STP	Soil total phosphorus concentration (mg g ⁻¹)
richness.h	Species richness of herbaceous plants
richness.so	Original species richness of shrubs
richness.s	Species richness of shrubs after correction for plot sizes
herbL	Aboveground biomass of herbaceous plants (Mg hm ⁻²)
herbR	Belowground biomass of herbaceous plants (Mg hm ⁻²)
hbiomass	Total biomass of herbaceous plants (Mg hm ⁻²)
shrubR	Belowground biomass of shrubs (Mg hm ⁻²)
sabove	Aboveground biomass of shrubs (Mg hm ⁻²)
sbiomass	Total biomass of shrubs (Mg hm ⁻²)
sID	Individual density of shrubs (m ⁻²)

code for analysis.R - R script for structural equation modelling and residual regression.
Annotations of code are included throughout the script.
