

Table S1. Covariance Matrix with the estimated eigenvalues between the functional attributes and the PCA dimensions. Trait abbreviations: Thic – leaf thickness; LWC – leaf water content; LMA – leaf mass per area; Den – leaf density; LA – leaf area; Pal – palisade parenchyma; Subep – subepidermal layer; Spon – spongy parenchyma; Adep – adaxial epidermis; Abep – abaxial epidermis; Adcut – adaxial cuticle; Abcut – abaxial cuticle; Chlo – total chlorophyll content; Car – total carotenoid content; Fv/Fm – maximum quantum yield of photosystem II; qP – photochemical quenching; NPQ – non-photochemical quenching; C – carbon 12; C13 – carbon-13 isotope; N – nitrogen 14; N15 – nitrogen-15 isotope; P – phosphorus; C/N – carbon-to-nitrogen ratio.

Standard deviations (1.p = 10)										
[1] 3.048410e+00 2.171998e+00 1.734730e+00 1.388257e+00 1.286297e+00 1.166449e+00 8.277446e-01										
[8] 5.224330e-01 2.825218e-01 3.583141e-15										
Rotati	on (n x k)	= (23 x 10):								
	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
LA	0.03290474	0.21460442	0.145207784	0.4184550715	-0.453824657	-0.077877157	0.105517864	0.10419190	0.38991962	-0.070282613
THIC	-0.22808039	-0.26644469	-0.149325153	0.0593899639	-0.026170017	0.254386308	-0.142931552	-0.01628696	0.23793727	-0.353156432
LWC	-0.11374637	-0.16388295	-0.380192156	-0.3264844437	-0.032604446	0.243150021	-0.073472958	-0.21912938	0.41351951	0.111388925
LMA	-0.25211318	-0.25815350	-0.038110399	0.1956591757	-0.017754861	0.084637012	-0.021351029	0.15077864	-0.01053223	-0.033646304
DEN	-0.22391330	-0.16178415	0.136707508	0.3575854505	0.120853704	-0.193950581	0.211450243	0.03009694	-0.14611729	0.293036796
Pal	-0.32034790	0.06022300	-0.031068619	-0.0002918114	0.009187928	0.099892794	-0.120087895	-0.07069279	-0.13105852	0.398452611
Spon	-0.25176596	0.28754369	-0.006333688	-0.0623722985	0.003103286	0.008882697	-0.009817829	0.21570990	-0.07100603	0.012559950
Subep	-0.30826436	0.07756937	-0.105657933	-0.0255897805	-0.063210235	0.093203965	-0.197470639	0.17503667	-0.04767051	-0.004336241
Adep	-0.27748747	0.23039108	-0.041385582	-0.0475952799	0.007385750	0.079034737	-0.120608966	0.14706075	0.03023351	0.149000438
Adcut	-0.23570653	0.30528995	0.101875293	-0.0208567968	0.062728822	0.019120820	0.050549921	0.03960895	-0.18628648	-0.097416356
Abep	-0.20878562	0.33912245	-0.004028558	-0.0361945208	0.040091471	0.146236341	-0.011132452	0.20276552	0.29053001	-0.127264357
Abcut	-0.27018352	0.24268043	0.098349835	-0.0489226994	0.036906815	0.043843373	-0.014239584	-0.12968997	-0.07741435	-0.042985355
Fv.Fm	0.21208175	0.29351843	0.195984687	-0.0447633590	0.061664142	0.143825594	-0.115864949	-0.20928202	0.08310087	0.011347964
qP	-0.24196003	0.05115006	-0.231679492	0.0496394297	-0.172135119	-0.079270703	0.498639061	-0.42333458	-0.07851348	-0.367184823
NPQ	0.14275100	0.05959628	0.417003304	-0.0699970062	-0.175987840	0.267852324	-0.369411691	-0.26036716	-0.05925575	-0.078398827
Chlo	0.08688341	0.29916712	-0.207656125	0.1210272306	-0.164567310	-0.434811137	-0.260387274	-0.05318685	0.06689522	-0.225980894
Car	0.23097220	-0.04579330	-0.325252003	-0.1325917817	-0.156262249	-0.033072105	-0.116917172	0.56070199	-0.25176796	-0.178368563
P	0.04441051	-0.12413745	0.078889896	0.5492000226	0.056979654	0.467045566	-0.058194075	0.12770074	-0.01152691	-0.147578425
C	-0.05904770	-0.11069713	-0.098983584	0.0219139427	-0.722858871	0.008180711	-0.119496222	-0.11345599	-0.13451064	0.370222281
C13	-0.23669446	-0.20690840	0.224718451	-0.1468564032	-0.144670434	-0.058202994	-0.203321899	-0.09392794	-0.41750897	-0.420334778
N	0.14677387	0.21816337	-0.351663225	0.1996008070	-0.049176713	0.280581271	-0.049649003	-0.13982076	-0.32055570	0.032919343
N15	0.10496329	0.06768227	0.213616149	-0.3271557153	-0.283518181	0.360562461	0.547949064	0.24480681	-0.07537260	-0.008898391
C.N	-0.17673659	-0.21024245	0.327527617	-0.1598205036	-0.144633628	-0.239730058	-0.072179613	0.16859941	0.25091985	-0.039799640