Table 2S. *Pearson*'s correlation coefficients and phylogenetically independent contrast correlations coefficients between measured parameters. Correlations between species are given *upper right* of the diagonal, and correlations between phylogenetically independent contrasts (PIC) are given *lower left*. P_{max} − maximum photosynthetic rate [μmol m^{-2} s^{-1}]; E_{max} − maximum transpiration rate [mmol m^{-2} s^{-1}]; g_s − maximum stomatal conductance [mmol m^{-2} s^{-1}]; WUE − water use efficiency [μmol $mmol^{-1}$]; N_{area} − nitrogen content per unit leaf area [g m^{-2}]; PNUE − photosynthetic nitrogen use efficiency [mmol g^{-1} s^{-1}]; $\delta^{13}C$ − stable carbon isotope ratio [‰]; LMA – leaf mass per area [g m^{-2}]; SD − stomatal density [No. mm^{-2}]; GCL − guard cell length [μm]; SPI − stomatal pore index [$\times 10^{-2}$]; $\Delta\Psi_L$ − diurnal leaf water potential [MPa]; W_d − wood density [g cm^{-3}]; D_v − vessel diameter [μm]; V_d − vessel density [No. mm^{-2}]; RGR − mean annual diameter relative growth rate [% y^{-1}]. Significantly correlated traits are marked: $^{*}P<0.05$; $^{**}P<0.01$; $^{***}P<0.001$.

	P_{max}	E_{max}	g_s	WUE	PNUE	N_{area}	$\delta^{13}C$	LMA	SD	GCL	SPI	$\Delta\Psi_L$	W_d	D_v	V_d	RGR
P_{max}		0.597**	0.830***	0.351	0.410	0.473*	−0.111	0.459*	0.090	0.392	0.481*	0.283	−0.159	0.553**	−0.130	0.306
E_{max}	0.707***		0.711***	−0.515*	0.155	0.344	−0.349	0.331	−0.136	0.619**	0.482*	0.629**	−0.006	0.496*	0.007	0.231
g_s	0.892***	0.797***		0.025	0.038	0.703***	−0.059	0.486*	0.097	0.479*	0.586**	0.359	−0.147	0.554**	−0.032	0.304
WUE	0.474**	−0.267	0.194		0.261	0.067	0.172	0.010	0.239	−0.341	−0.105	−0.421*	−0.097	−0.036	−0.085	−0.027
PNUE	0.180	−0.042	−0.054	0.380		−0.571**	−0.290	0.003	−0.132	0.020	−0.146	0.173	0.269	0.059	−0.188	0.329
N_{area}	0.711***	0.577**	0.819***	0.180	−0.514*		0.266	0.293	0.238	0.328	0.617**	0.088	0.411	0.419*	0.063	0.007
$\delta^{13}C$	0.002	−0.226	0.053	0.179	−0.156	0.249		−0.127	−0.146	−0.050	−0.167	−0.237	−0.448*	−0.046	−0.027	−0.295
LMA	0.683***	0.536*	0.619**	0.170	−0.202	0.596**	−0.121		0.035	0.368	0.318	0.012	−0.180	0.250	0.130	0.272
SD	−0.281	−0.454*	−0.269	0.181	−0.128	−0.063	−0.049	−0.248		−0.524*	0.408	−0.019	−0.193	0.099	0.049	0.242
GCL	0.636**	0.676***	0.624**	−0.008	−0.098	0.543**	−0.127	0.651**	−0.606**		0.517*	0.420*	0.121	0.448*	0.062	−0.086
SPI	0.544**	0.406	0.545**	0.192	−0.245	0.638**	−0.187	0.542**	0.072	0.720***		0.374	−0.105	0.659***	−0.066	0.145
$\Delta\Psi_L$	0.244	0.460*	0.244	−0.221	−0.064	0.208	−0.120	0.185	−0.243	0.480*	0.346		−0.130	0.265	0.039	0.183
W_d	−0.209	−0.134	−0.217	−0.009	0.401	−0.483*	−0.557**	−0.297	0.018	−0.080	−0.091	−0.327		0.009	−0.095	−0.242
D_v	0.581**	0.517*	0.611**	0.157	−0.140	0.545**	0.003	0.437*	−0.377	0.598**	0.480*	0.179	−0.064		−0.464*	−0.097
V_d	−0.225	−0.066	−0.145	−0.189	−0.122	−0.061	0.020	−0.124	0.279	−0.076	0.022	0.182	−0.138	−0.381		−0.090
RGR	0.249	0.213	0.267	0.023	0.258	0.069	−0.192	0.156	0.138	−0.135	−0.039	−0.055	−0.195	−0.224	−0.059	