Supplementary Material

Ethylene-induced improvement in photosynthetic performance of *Zanthoxylum armatum* under reoxygenation conditions

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Supplementary Tables

Table S1 Eigenvalues of principal components extracted and their contribution and cumulative contribution

Component	Eigenvalue	Variance %	Cumulative variance%	Contribute weight
1	9.834	70.239	70.239	70.2%
2	2.373	16.946	87.186	16.9%

Table S2 Loading scores of each trait in principal components extracted

Traits	PC1	PC2
Chl a	0.973	0.089
Chl b	0.945	-0.011
Chl	0.980	0.066
CAR	0.939	0.020
Rubpcase	0.962	0.145
PEPCase	0.961	0.120
T_r	0.950	0.137
P_n	0.976	0.090
G_s	0.953	0.211
WUE	0.888	-0.066
Fv/Fm	0.765	-0.428
NPQ	-0.069	-0.700
φPSII	-0.234	0.877
ETR	-0.324	0.897

Table S3 Principal component scores and composite waterlogging tolerance indices (CWTI) of *Z. armatum* under waterlogging stress

Treatment	PC1	PC2	CWTI
NW-0	0.461	0.007	0.649
NW-200	0.670	0.017	0.725
NW-400	0.843	-0.016	0.744
WR1-0	0.232	0.028	0.599
WR1-200	-0.018	0.022	0.515
WR1-400	0.109	0.014	0.546
WR2-0	-0.103	0.042	0.509
WR2-200	-0.269	-0.031	0.377
WR2-400	-0.196	-0.037	0.393
WR3-0	-0.742	-0.020	0.240

WR3-200	-0.420	-0.015	0.346
WR3-400	-0.566	-0.012	0.304