

Table S1 Formulae and terms used in the analysis of the O-J-I-P fluorescence induction dynamics curve

Formulae and Terms	Illustrations
F_o	Minimal recorded fluorescence intensity
F_m	Maximal recorded fluorescence intensity
t_{Fm}	Time to reach maximal fluorescence intensity F_m
V_j	Relative variable fluorescence intensity at the J-step
M_o	Approximated initial slope of the fluorescence transient
S_m	Normalised total complementary area above the O-J-I-P transie (reflecting single-turnover Q_A reduction events)
Specific energy fluxes [per Q_A -reducing PSII reaction center (RC)]	
ABS/RC	Absorption flux per RC
TR_o/RC	Trapped energy flux per RC (at $t=0$)
ET_o/RC	Electron transport flux per RC (at $t=0$)
DI_o/RC	Dissipated energy flux per RC (at $t=0$)
Phenomenological energy fluxes [per excited cross section (CS)]	
ABS/CS_o	Absorption flux per CS (at $t=0$)
TR_o/CS_o	Trapped energy flux per CS (at $t=0$)
ET_o/CS_o	Electron transport flux per CS (at $t=0$)
DI_o/CS_o	Dissipated energy flux per CS (at $t=0$)
Density of reaction centers	
RC/CS_o	Density of RCs (Q_A -reducing PSII reaction centers)
Performance indexes	
PI_{ABS}	Performance index on absorption basis
PI_{CS}	Performance index on cross section basis (at $t=0$)

When $t=t_{Fm}$, CS_o was replaced by CS_m , $ABS/CS_m \approx F_m$.