

Table 1 Suppl. Formulae and explanation of the selected OJIP-test parameters used in this research.

Parameters	Definition
Data extracted from the recorded fluorescence transient OJIP	
$F_t$	fluorescence at time t after onset of actinic illumination
$F_0$	minimal reliable recorded fluorescence, at $\approx 30 \mu s$ (O step)
$F_J$	fluorescence at 3 ms (J-step, point of inflections on OJIP curve)
$F_m (\equiv F_P)$	maximal recorded fluorescence, at the peak P of OJIP
Parameter calculated from the extracted data	
$V_J \equiv (F_J - F_0)/(F_m - F_0)$	relative variable fluorescence at the J-step
$\phi_{Po} = 1 - F_0/F_m$	maximum quantum yield for primary photochemistry
$\Psi_o = (1 - V_J)$	probability that a trapped exciton moves an electron into the electron transport chain beyond $Q_A^-$
$\phi_{Eo} = [1 - (F_0/F_m)] \times (1 - V_J)$	quantum yield for electron transport