

Table S1. Results of the parametric one-way analyses of variance (ANOVA) analyses for the indoor experiments.

Parameter	Figure	Model	Error	F value	Prob > F
Biomass yield	5	9	20	6.52748	3.03772E-4
Chl <i>a</i>	6a	6	15	14.07381	<0.0001
Chl <i>b</i>	6b	6	15	11.68866	2.08517E-4
Car	6c	6	15	17.2489	<0.0001
Chl <i>a/b</i>	6d	6	15	2.11479	0.12698
Chl/Car	6e	6	15	9.60335	5.33645E-4
PSII maximum quantum yield	6f	9	20	3.23885	0.0137
N-NO ₃ ⁻	7a	9	20	23.62717	<0.0001
N-NH ₄ ⁺	7b	9	20	15.5112	<0.0001
P-PO ₄ ³⁻	7c	9	20	22.82119	<0.0001

Table S2. Results of the parametric one-way analyses of variance (ANOVA) analyses for the outdoor experiments.

Parameter	Figure	Model	Error	F value	Prob > F
Biomass yield	10	9	20	13.09359	<0.0001
Chl <i>a</i>	11a	6	15	463.68836	3.73536E-16
Chl <i>b</i>	11b	6	15	49.57992	4.76492E-9
Car	11c	6	15	162.17322	9.00073E-13
Chl <i>a/b</i>	11d	6	15	77.41903	<0.0001
Chl/Car	11e	6	15	172.68906	<0.0001
PSII maximum quantum yield	11f	9	20	796.40889	1.50877E-23
N-NO ₃ ⁻	12a	9	20	140.06433	<0.0001
N-NH ₄ ⁺	12b	9	20	19.56605	<0.0001
P-PO ₄ ³⁻	12c	9	20	6.09239	5.80088E-4