

	Method	T0	T4	T8	T12	T24	T48	T72	T96
<i>Chloroplast volume (μm³)</i>	SBF-SEM	12.27 (± 2.3)	9.4 (± 4.8)	—	—	62 (± 2.04)	—	—	112.14 (± 4.3)
<i>Thylakoid surface (μm²)</i>	SBF-SEM	—	67.0 (± 29.5)	—	—	1476 (± 146)	—	—	2086 (± 393)
<i>Grana lamellae / total thylakoid surface</i>		—	—	—	—	2.55 (± 0.11)	—	—	2.08 (± 0.57)
<i>Thylakoid/envelope surface</i>		—	1.02 (± 0.15)	—	—	7.37 (± 0.51)	—	—	6.83 (± 1.40)
<i>Length of plastid (μm)</i>	TEM	2 (± 0.90)	2.8 (± 0.90)	—	—	5.1 (± 1.47)	—	—	6 (± 1.62)
<i>Stroma lamellae volume (μm³)</i>	SBF-SEM	—	2.43 (± 0.95)	—	—	17.87 (± 1.04)	—	—	29.17 (± 19.4)
<i>Chloroplast volume (μm³)</i>	Confocal	—	—	—	—	61.5 (± 11.2)	70.1 (± 10.2)	85 (± 22)	—
<i>Cell Volume (μm³)</i>	3 View	1173 (± 284)	1891 (± 362)	—	—	6103 (± 1309)	—	—	52597 (± 12671)
<i>Cell perimeter (μm)</i>	TEM	—	—	—	—	55.26 (± 6.1)	46.43 (± 5.3)	71.68 (± 7.0)	92.77 (± 11.1)
<i>Number of chloroplast per cell</i>	SBF-SEM	22 (± 6)	25 (± 8)	—	—	26 (± 6)	—	—	112 (± 29)
<i>Number of cell per seedling</i>		—	—	—	—	≈ 3000	—	—	≈ 3000
<i>Protein/GLs surface</i>		0.19 (± 0.05)	0.23 (± 0.04)	0.34 (± 0.03)	0.52 (± 0.07)	0.80 (± 0.14)	0.80 (± 0.17)	0.78 (± 0.07)	0.87 (± 0.25)
<i>GLs (nmol/seedling)</i>	Lipidomics	0.31 (± 0.03)	0.31 (± 0.02)	0.32 (± 0.02)	0.54 (± 0.02)	0.67 (± 0.04)	1.28 (± 0.12)	1.84 (± 0.01)	2.20 (± 0.09)
<i>PsbA (nmol/seedling)</i>	Immunodetection	6.9^{E-06} (± 1.8E-06)	9.2^{E-06} (± 1.7E-06)	1.5^{E-05} (± 7.1E-07)	3.2^{E-05} (± 4.3E-06)	9.3^{E-05} (± 2.1E-05)	2.0^{E-04} (± 6.2E-05)	3.9^{E-04} (± 4E-05)	6.2^{E-04} (± 1.7E-04)
<i>PsaC (nmol/seedling)</i>	Immunodetection	n.d	n.d	n.d	1.6^{E-05} (± 2.5E-06)	7.3^{E-05} (± 2.4-E05)	1.1^{E-04} (± 7.2-E05)	1.7^{E-04} (± 4.2-E05)	2.3^{E-04} (± 1E-04)
<i>PetC (nmol/seedling)</i>	Immunodetection	2.7^{E-05} (± 7.8E-06)	2.8^{E-05} (± 9.8E-06)	2.5^{E-05} (± 4.5E-06)	5.3^{E-05} (± 2.2E-05)	1.2^{E-04} (± 4.1E-05)	1.8^{E-04} (± 3.4E-05)	5.7^{E-04} (± 1.8E-04)	7.9^{E-04} (± 3.7E-04)

	T0	T4	T8	T12	T24	T48	T72	T96
MGDG	1.11^{E+07} SD = +/- 3.64E+05	1.15^{E+07} SD = +/- 1.01E+06	1.11^{E+07} SD = +/- 1.10E+06	1.75^{E+07} SD = +/- 1.79E+06	4.16^{E+07} SD = +/- 4.27E+06	8.65^{E+07} SD = +/- 5.96E+06	1.68^{E+08} SD = +/- 8.86E+06	2.35^{E+08} SD = +/- 1.94E+07
DGDG	3.64^{E+06} SD = +/- 4.04E+05	4.23^{E+06} SD = +/- 5.29E+05	4.10^{E+06} SD = +/- 1.31E+05	6.26^{E+06} SD = +/- 4.70E+05	1.32^{E+07} SD = +/- 9.73E+05	2.32^{E+07} SD = +/- 1.83E+06	3.97^{E+07} SD = +/- 2.56E+06	5.48^{E+07} SD = +/- 3.71E+06
PSII	2.04^{E+06} SD = +/- 5.38E+05	2.74^{E+06} SD = +/- 5.30E+05	4.40^{E+06} SD = +/- 2.12E+05	9.91^{E+06} SD = +/- 1.29E+06	2.75^{E+07} SD = +/- 6.42E+06	6.06^{E+07} SD = +/- 1.85E+07	1.15^{E+08} SD = +/- 1.19E+07	1.83^{E+08} SD = +/- 5.17E+07
PSI	0^{E+00} SD = +/- 0E+00	0^{E+00} SD = +/- 0E+00	0^{E+00} SD = +/- 0E+00	8.95^{E+05} SD = +/- 4.49E+05	1.33^{E+07} SD = +/- 4.31E+06	2.10^{E+07} SD = +/- 1.30E+07	3.04^{E+07} SD = +/- 7.55E+06	4.24^{E+07} SD = +/- 1.89E+07
Cyt b ₆ f	7.99^{E+05} SD = +/- 2.33E+05	8.43^{E+05} SD = +/- 2.91E+05	7.50^{E+05} SD = +/- 1.33E+05	1.57^{E+06} SD = +/- 6.71E+05	3.44^{E+06} SD = +/- 1.22E+06	5.30^{E+06} SD = +/- 1.01E+06	1.69^{E+07} SD = +/- 5.48E+06	2.37^{E+07} SD = +/- 1.11E+07

surface in nm² reference

MGDG	0.82	<i>Bottier et al., 2007</i>
DGDG	0.64	<i>Bottier et al., 2007</i>
PSII -LHCII (C ₂ S ₂ M ₂)	494	<i>Caffari et al., 2014</i>
cyt b ₆ f	49.5	<i>Kurusu et al., 2003</i>
PSI	300	<i>Caffari et al., 2014</i>