

Table 4. Comparison of chlorophyll fluorescence-emission characteristics at 77 K between the lower and upper leaf surfaces (D = deep, P = partial, Sh = shade, Su = sun)

Species	Exposure	Ratio, lower to upper surface				
		692 nm			734 nm	
		$\frac{F_V}{F_M}$	F_O	F_M	F_O	F_M
<i>Aegialitis annulata</i>	Sh	1.05	1.05	1.42	1.22	1.30
<i>Alocasia macrorrhiza</i>	D Sh	0.97	1.26	1.23	0.94	0.97
<i>Atriplex triangularis</i>	P Sh	1.00	1.50	1.51	1.17	1.37
<i>Castanospermum australe</i>	D Sh	1.00	1.40	1.40	0.90	1.01
<i>Colocasia esculenta</i>	Su	1.01	2.24	2.33	1.66	1.70
<i>Glycine max</i>	Su	1.02	1.80	1.95	1.31	1.47
<i>Gossypium hirsutum</i>	Sh	1.01	1.33	1.38	1.37	1.42
<i>Helianthus annuus</i>	Su	1.02	1.36	1.47	1.14	1.19
<i>Liquidambar styraciflua</i>	Sh	0.99	1.65	1.56	0.92	0.89
<i>Nerium oleander</i>	Su	1.02	1.17	1.28	—	—
<i>Schefflera actinophylla</i>	Sh	0.97	1.67	1.51	1.28	1.21
<i>Vigna marina</i>	Su	1.07	1.82	1.92	1.75	1.85
Mean		1.01	1.52	1.58	1.24	1.13
SE		0.01	0.10	0.09	0.08	0.15