

Table 3. Comparison among taxonomic groups and life forms of the photon yield of O₂ evolution (ϕ_i , ϕ_a), leaf absorptance (α) and the F_V/F_M ratio (692 nm, 77 K) in leaves and fronds of 37 C₃ species

Taxon Life form	No. of species	No. of families	α (mean \pm SE)	ϕ_i (mean \pm SE)	ϕ_a (mean \pm SE)	F _V /F _M (mean \pm SE)
I. Pterophyta						
Ferns	2	2	0.837 \pm 0.014	0.0851 \pm 0.0065	0.102 \pm 0.006	0.800 \pm 0.017
II. Coniferophyta						
Coniferous trees	2	2	0.828 \pm 0.008	0.0923 \pm 0.0006	0.112 \pm 0.002	0.853 \pm 0.004
III. Anthophyta						
A. Dicotyledonae	25	22	0.844 \pm 0.008	0.0894 \pm 0.0010	0.106 \pm 0.001	0.830 \pm 0.004
1. Herbaceous	8	5	0.815 \pm 0.018	0.0882 \pm 0.0016	0.108 \pm 0.002	0.827 \pm 0.005
2. Deciduous trees	4	4	0.840 \pm 0.010	0.0902 \pm 0.0006	0.107 \pm 0.001	0.843 \pm 0.012
3. Evergreen shrubs vines	5	5	0.873 \pm 0.009	0.0900 \pm 0.0019	0.104 \pm 0.002	0.824 \pm 0.008
4. Evergreen trees	8	8	0.858 \pm 0.012	0.0898 \pm 0.0024	0.105 \pm 0.002	0.830 \pm 0.009
B. Monocotyledonae	8	6	0.821 \pm 0.013	0.0874 \pm 0.0020	0.106 \pm 0.002	0.840 \pm 0.008
1. Grasses, sedges	3	3	0.825 \pm 0.028	0.0866 \pm 0.0047	0.105 \pm 0.002	0.849 \pm 0.007
2. Others	5	3	0.819 \pm 0.015	0.0879 \pm 0.0020	0.108 \pm 0.003	0.836 \pm 0.011
Non-sclerophyllous	21	16	0.823 \pm 0.009	0.0881 \pm 0.0010	0.107 \pm 0.001	0.834 \pm 0.004
Sclerophyllous	16	16	0.856 \pm 0.007	0.0895 \pm 0.0015	0.105 \pm 0.002	0.828 \pm 0.006
All C ₃ plants	37	32	0.838 \pm 0.006	0.0891 \pm 0.0009	0.106 \pm 0.001	0.832 \pm 0.004