

Supplementary Materials

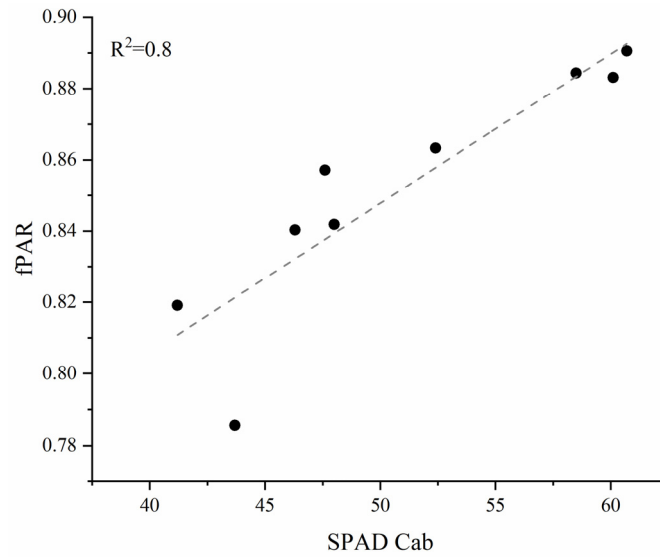


Figure S1. Relationship between chlorophyll content (Cab) measured by SPAD-502 and fPAR estimated using leaf absorption.

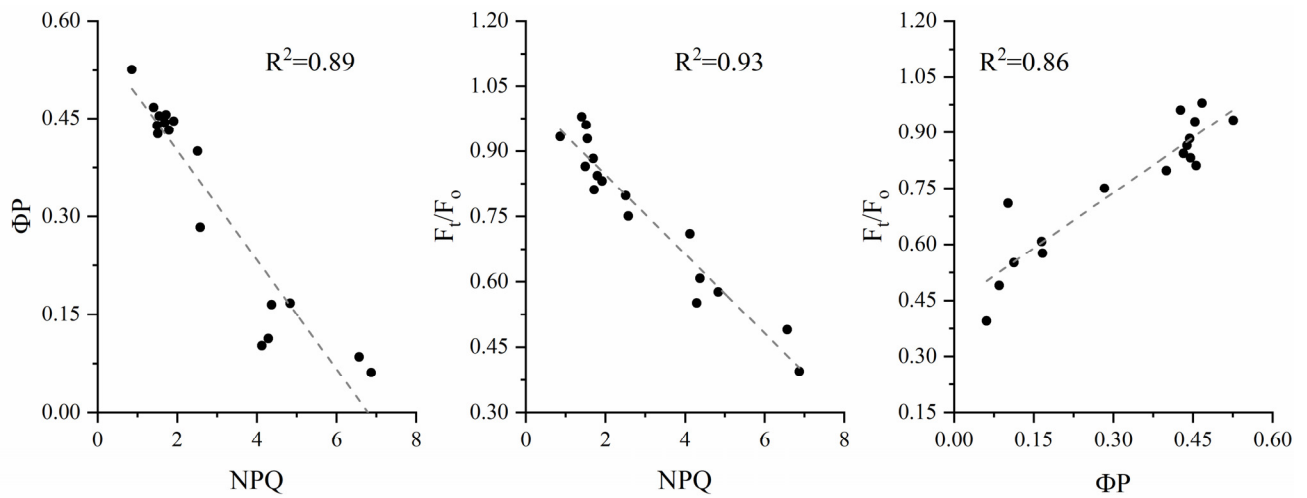


Figure S2. Relationships between nonphotochemical quenching (NPQ) and operating quantum yield of photochemistry in PSII (ΦP), steady-state active fluorescence (F_t) normalized by dark acclimation minimal fluorescence (F_0).

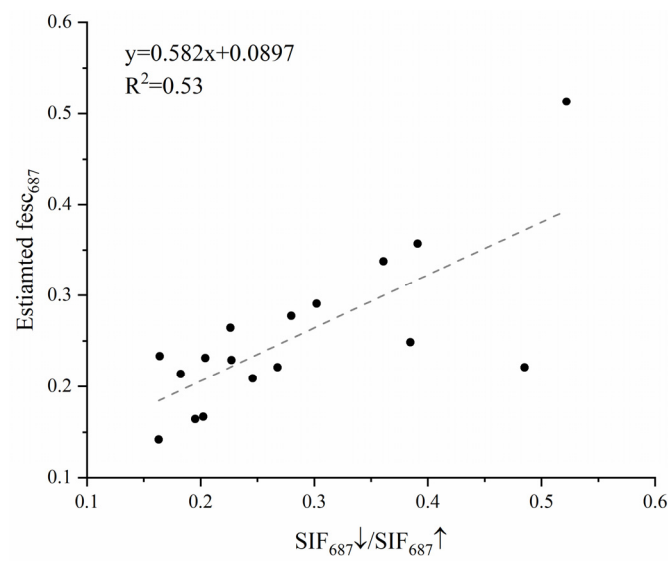


Figure S3. Relationships between the ratio of downward SIF and upward SIF at 687 nm and the estimated escape probability at 687 nm.