

Table S1. Definition of chlorophyll fluorescence parameters in this study

Technical fluorescence parameters	Definitions
F _o	Initial fluorescence yield
F _m	Maximum fluorescence yield
F _v = F _m – F _o	Maximum variable fluorescence
F _v /F _m	Maximum photochemical efficiency
M _o	Initial slope of the O–J fluorescence rise
VJ	Energy dissipation ratio of electrons passing through plastid quinone A (Q)
ABS/RC=M _o ×(1/VJ) ×(1 /φP0)	Light energy absorbed by the unit reaction center
TRo/RC=M _o ×(1/VJ)	Energy captured by the unit reaction center for reducing Q _A
ETO/RC=M _o ×(1/VJ) ×ψO	Energy captured by a unit reaction center for electron transfer
DIO/RC=(ABS/RC)–(TRO / RC)	Energy dissipated in the unit reaction center

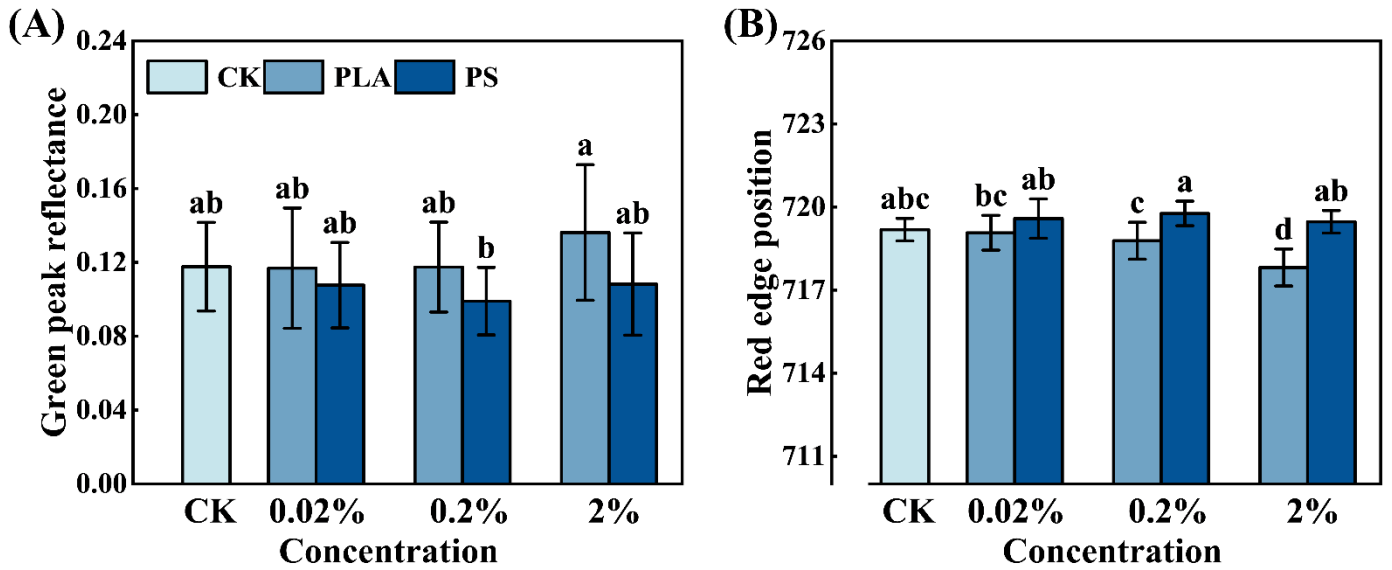


Figure S1. Spectral response of cucumber seedlings to MPs exposure. (A): the Green peak reflectance; (B): red edge position. The lowercase letters indicate the significance of the difference between the mean values in different treatments at the 0.05 level.