(500)

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In our first visit to an old world which is at the same time the newest. We treasure a kinship to your world.
Gene Calvin - Berkeley Calif. 5-22-74

Solar Energy for U.S., Japan and the whole world — Perhaps!

$$(Mn^{IV})_2 O_2 L_4 \xrightarrow{h\nu_{II}} O_2\uparrow + L_4(Mn^{II})_2 ??$$

$$\xleftarrow{2H_2O}$$

$$L_4(Mn^{II})_2 + Fd^{+3} \xrightarrow{h\nu_{I}} 2Fd^{+2} + L_4(Mn^{IV})_2$$

$$2Fd^{+2} + [\text{Hydrogenase}] \rightarrow Fd^{+3} + H_2\uparrow + [\text{Hydr.}]$$

Melvin Calvin

Tokijo, May 22, 1974