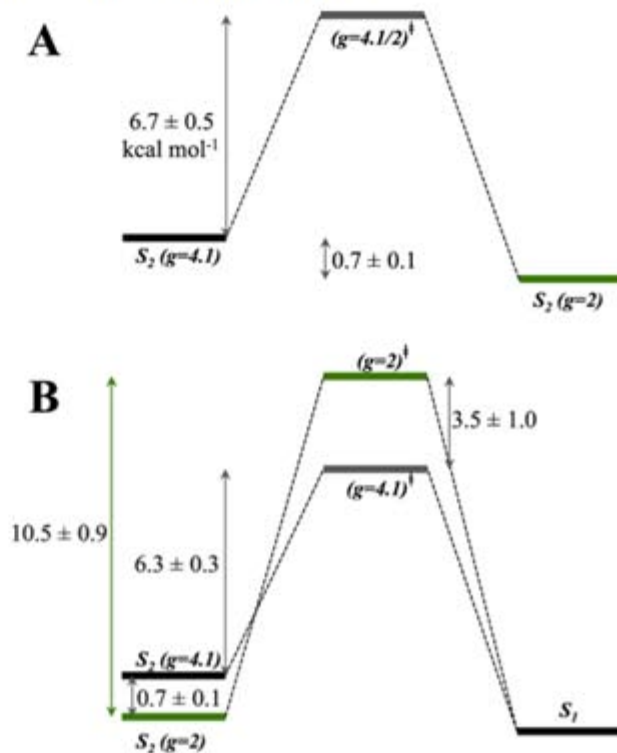
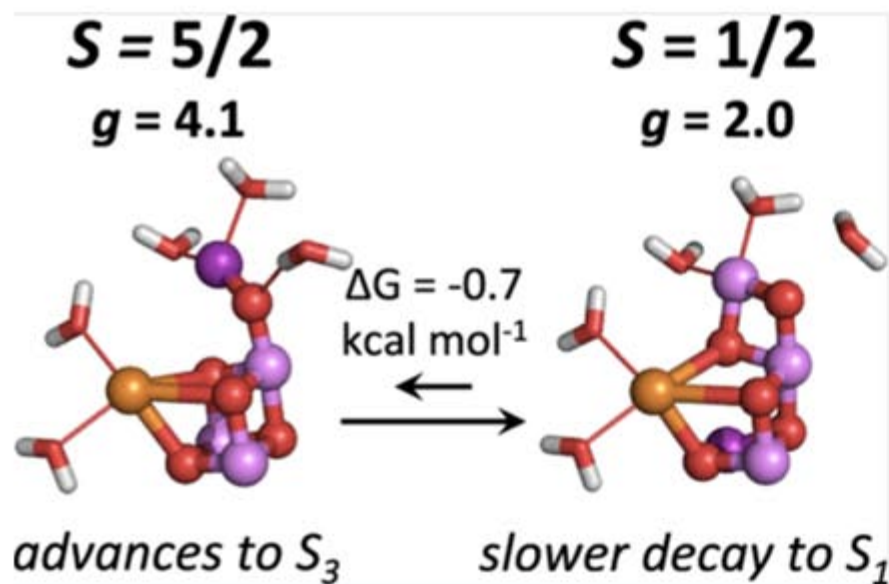


# Energetics of the $S_2$ State Spin Isomers of the Oxygen-Evolving Complex of Photosystem II

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Compiled energetics schemes for the conversion of the  $S_2$  state  $S = 5/2$  isomer to the  $S_2$  state  $S = 1/2$  isomer and (B) decay of the  $S_2QA^-$  state to  $S_1QA$  for both  $S_2$  state spin isomers.