

Table A3 Excited state redox potentials and excitation energies

Redox or excitation process	$E_m(P^*/P^+)$ (V) <sup>a</sup>	$E_{0-0}(P/P^*)$ (eV) <sup>b</sup>
$P700^+ + e^- \rightleftharpoons P700^*$	-1.26	1.75
$P870^+ + e^- \rightleftharpoons P870^*$	-0.94	1.39
$P680^+ + e^- \rightleftharpoons P680^*$	-0.7	1.80
$Chl^+ + e^- \rightleftharpoons Chl^*$	-1.07	1.85
$BChl^+ + e^- \rightleftharpoons BChl^*$	-0.94	1.58

<sup>a</sup> Redox potentials were calculated using Eq. A83.

<sup>b</sup> Excitation energies were calculated using Eq. A3. See Table A2 for ground state redox potentials of reaction center oxidation. Data from Blankenship and Prince (1985).