



*Supplement of*

**Reaction dynamics of  $\text{P}(^4\text{S}) + \text{O}_2(\text{X}^3\Sigma_g^-) \rightarrow \text{O}(^3\text{P}) + \text{PO}(\text{X}^2\Pi)$   
on a global CHIPR potential energy surface of  $\text{PO}_2(\text{X}^2\text{A}_1)$ :  
implications for atmospheric modelling**

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