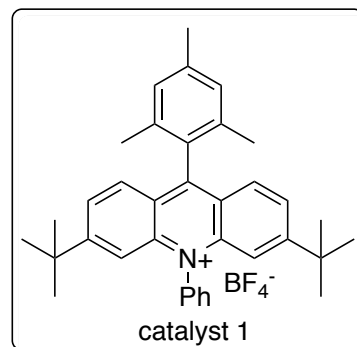
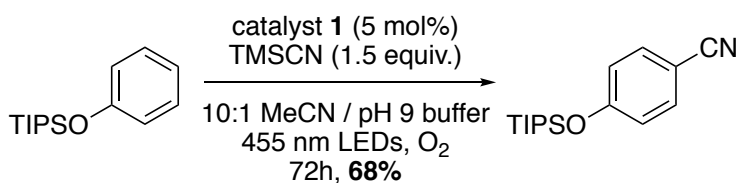


EAA Problem Session
21rd February 2017

1. Please suggest a catalytic cycle for the following transformation, taking into account that O_2 , $HOO\cdot$ and HOO^- are part of the mechanism.



$$E_{1/2} (\text{Mes-Acr}^{+*} \rightarrow \text{Mes-Acr}\cdot) = 2.15 \text{ V}$$

2. Please suggest a mechanism for the following radical cascade cyclisation and, when indicated, explain the relative stereochemistry.

