Supporting Information For:

Interfacial Oxidative Oligomerization of Catechol

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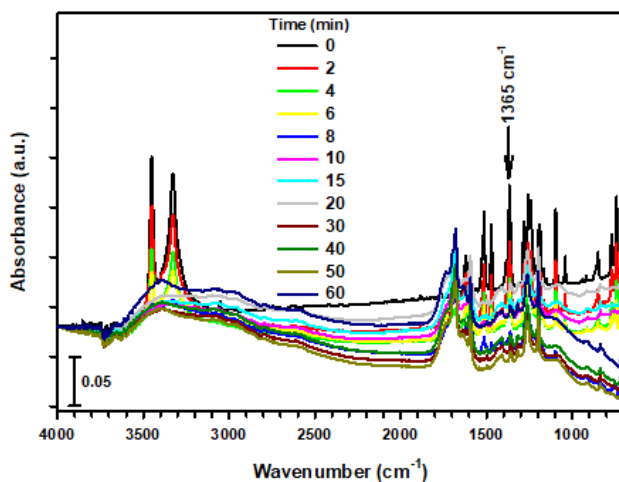*Email: marcelo.guzman@uky.edu, Phone: (859)323-2892

Figure S1. Infrared spectra time series of catechol thin films exposed to 230 ppmv $O_3(g)$ at 70% RH.
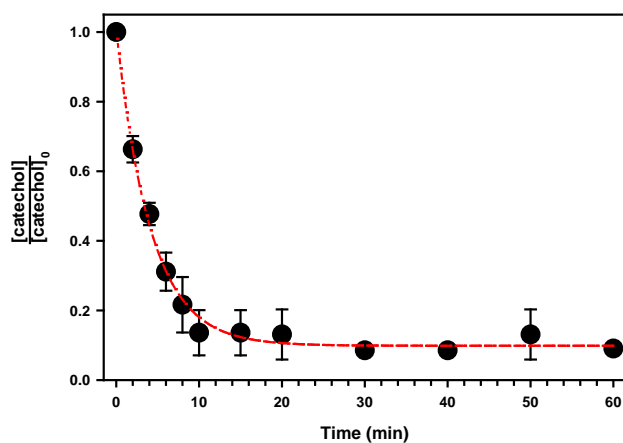

Figure S2. Time series for the first-order decay of catechol thin films of exposed to 230 ppmv $O_3(g)$ at 70% RH monitored as the corrected infrared absorbance at 1365 cm^{-1} (see Figure S1). The red dash line corresponds to a least square fitting for a three-parameter exponential decay curve with time (t): [catechol]/[catechol]$_0$ = ([catechol]$_\infty$/[catechol]$_0$) + a $exp(-k_{cat+O_3} \times t)$ with parameters [catechol]$_\infty$/[catechol]$_0$ = 9.86×10^{-2} for the extrapolated constant at infinite time, a = 9.09×10^{-1} for the pre-exponential constant, k_{cat+O_3}= 2.41×10^{-1} min^{-1} for the pseudo-first-order rate constant, and coefficient of determination r^2 = 0.994.