

Supporting Information For:

Surface Oxidation of Phenolic Aldehydes: Fragmentation, Functionalization, and Coupling Reactions

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Figure S1.	Produced Areas in UHPLC-UV vs Time for Syringaldehyde Oxidation	S2

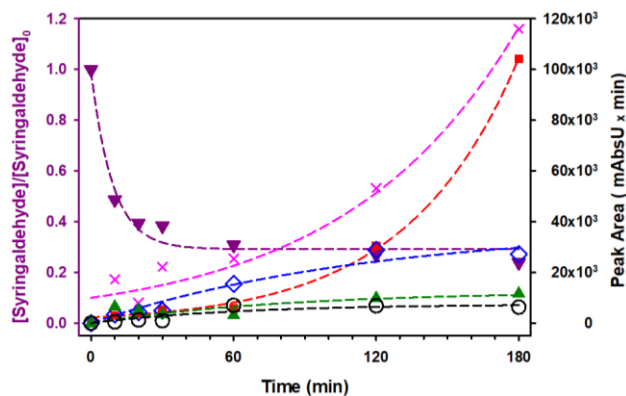


Figure S1. Oxidation time series for the (\blacktriangledown = peak 6, left axes) first-order decay of syringaldehyde relative to its initial value, and produced peak areas under the UHPLC UV chromatogram at $\lambda = 210$ nm for (\blacksquare = peak 2) (2Z,4Z)-3-formyl-2,4,5-trihydroxyhexa-2,4-dienedioic acid, (\blacklozenge = peak 3) 5-hydroxyvanillin, (\times = peak 4) (Z)-5-formyl-2-(4-hydroxy-3,5-dimethoxyphenyl)-6-oxohexa-2,4-dienoic acid, (\blacktriangle = peak 5) syringic acid, and (\bullet = peak 1) = maleic acid monomethyl ester. Conditions: 207 ppmv $O_3(g)$ at 74% RH, films extracted in isopropanol, dried, and reconstituted in water.