

Supporting Information of:  
**Efficient scavenging of Criegee intermediates on water  
by surface-active *cis*-pinonic acid**

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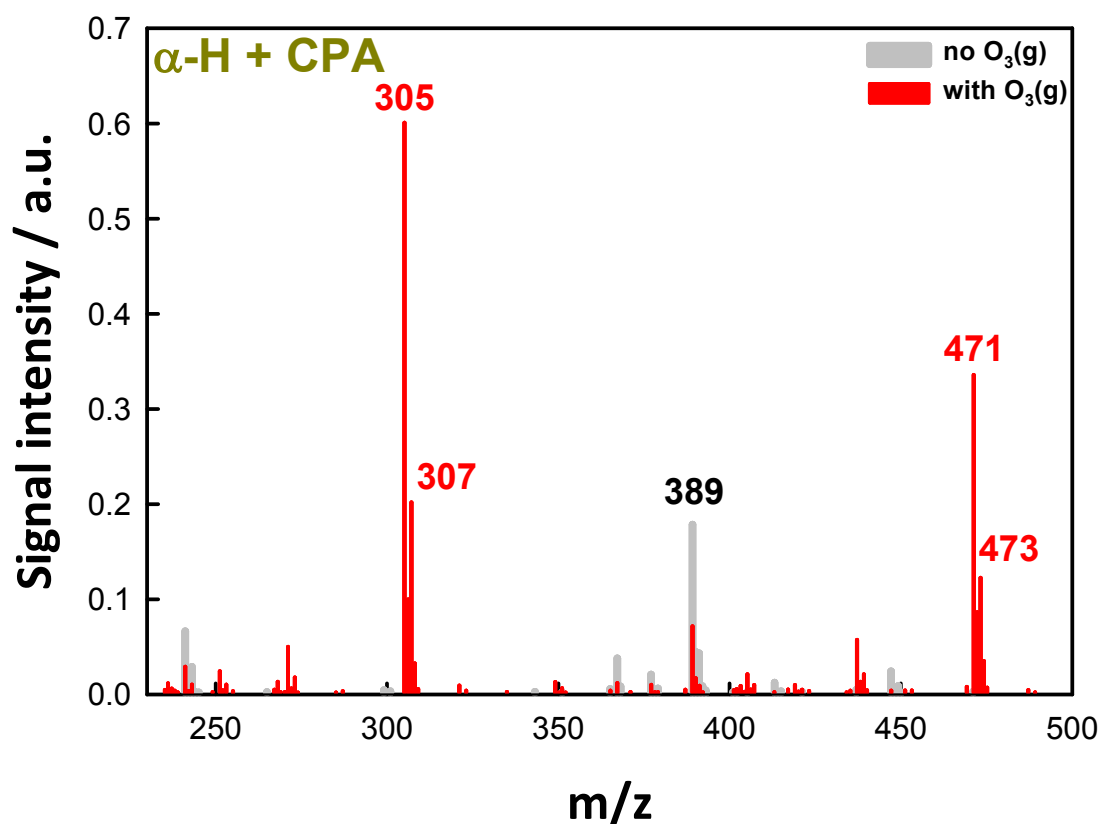
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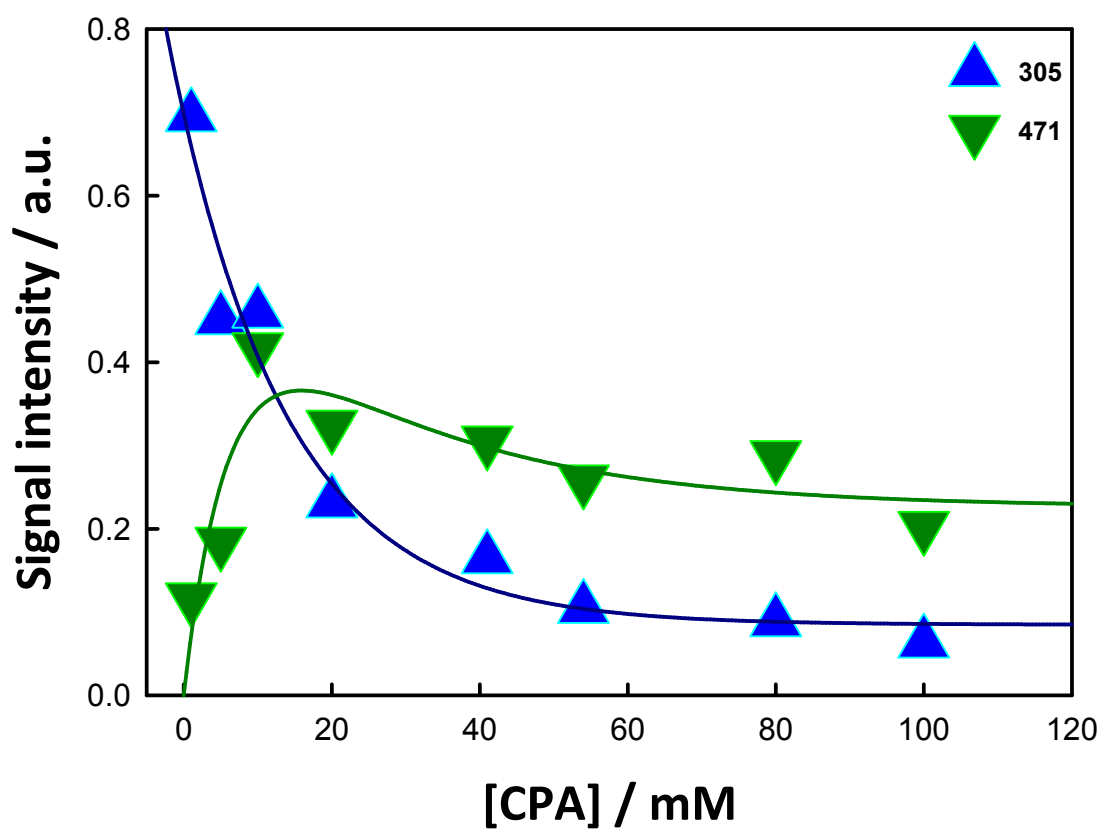
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**FIGURE S1:** Negative ion mass spectra from 1 mM  $\alpha$ -humulene ( $\alpha\text{-H}$ ) + 0.2 mM NaCl + 10 mM *cis*-pinonic acid (CPA) in AN:H<sub>2</sub>O (4:1 = vol:vol) solution microjets in the absence (gray) and presence of  $\text{O}_3(\text{g})$  (red,  $E = 2.3 \times 10^{11}$  molecules  $\text{cm}^{-3}$  s). The m/z 305/307, 389 and 471/473 signals correspond to chloride-adducts of  $\alpha$ -hydroxy-hydroperoxides,  $\text{Na}(\text{CPA})_2^-$ , and chloride-adducts of  $\alpha$ -acyloxy-hydroperoxides, respectively. See text for details.



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**FIGURE S2:** Signal intensities at  $m/z$  305 and 471 as a function of the concentration of added *cis*-pinonic acid (CPA) to 1mM  $\beta$ -caryophyllene + 0.2 mM NaCl in AN:H<sub>2</sub>O (4:1=vol:vol) solution microjets in the presence of O<sub>3</sub> ( $E = 2.4 \times 10^{11}$  molecules cm<sup>-3</sup> s). Connecting lines are guides to the eye. See text for details.

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