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this paper reviews the current understanding of soa formation from gas phase oxidation with a focus on anthropogenic precursors and their reaction products from atmospheric simulation chamber

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this review comprehensively addresses the formation of biogenic and anthropogenic soa elucidates the intricate chemistry governing soa generation and expounds upon their far reaching impacts

formation of secondary organic aerosol from wildfire nature Mar 16 2024

during this time the emitted gas phase organic compounds and those evaporated from primary oa poa can be photochemically aged to form secondary oa soa with up to 90 of the soa

a review of secondary organic aerosols formation focusing on Feb 15 2024

this review aims to summarize recent achievements of soa research especially oss and on for soa formation and enlighten future explorations of air pollutants assisting to appropriate air pollution control from intrinsic soa formation view

review of the influencing factors of secondary organic Jan 14 2024

in this paper we present a detailed review of the complex dynamic physical and chemical processes and the corresponding influencing factors involved in soa formation and aging and all these results were mainly based the studies of photochemical smog chamber simulation

chemistry of secondary organic aerosol formation and Dec 13 2023

secondary organic aerosol soa particulate matter composed of compounds formed from the atmospheric transformation of organic species accounts for a substantial fraction of tropospheric aerosol

suppression of anthropogenic secondary organic aerosol Nov 12 2023

secondary organic aerosol soa represents a major fraction of atmospheric fine particles both biogenic and anthropogenic volatile organic compounds vocs can contribute to soa through

secondary organic aerosol formation from anthropogenic air Oct 11 2023

here we show that in the real urban atmosphere reactive anthropogenic vocs avocs produce much larger amounts of soa than these models predict even shortly after sunrise contrary to current belief a significant fraction of the excess soa is formed from first generation avoc oxidation products

organic aerosol yields from α pinene oxidation bridging the Sep 10 2023

secondary organic aerosol formation from volatile precursors can be thought of as a succession of generations of reaction products here we constrain first generation soa formation from the α pinene ob reaction and also study soa formation from α pinene ozonolysis carried out without an oh scavenger

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the mechanism of soa formation via gas phase reactive organic compound oxidation is initiated by the generation of organic

radical which is followed by multiple addition of o 2 and isomerization this results in the formation of hydroperoxy functional groups

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soa customer service center Jan 02 2023

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synergistic generation mechanisms of soa and ozone from the Dec 01 2022

the vocs photo oxidation could dominate particle generation lower temperatures and radiation are favorable to soa particle growth the higher the concentration of maximum o 3 generated the higher the mass concentrations and yields of soa were observed

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