

Interactive comment on “The oleic acid-ozone heterogeneous reaction system: products, kinetics, secondary chemistry, and atmospheric implications of a model system – a review” by J. Zahardis and G. A. Petrucci

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Received and published: 20 December 2006

Thank you for taking the time to suggest the relevant literature that will aid in improving the scope of our review on the heterogeneous processing of oleic acid by ozone. We are going to add most, if not all, of the recommended references and some corresponding text mainly to the Introduction of the manuscript. While this article places emphasis on studies of the oleic acid + ozone HRS with recently developed laboratory aerosol methodologies as well as coated wall flow reactor experiments, we are aware that these areas fall into the encompassing study of interfacial processing, which many of the recommended articles focus on. In particular, we agree that a statement that

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places emphasis on the evolution of scientific thought on organic coatings is needed - perhaps most notably, the progression of thought regarding organic coatings as being microphysically, optically and chemically inert systems to active mediums in these regards via oxidative processing. This in fact, coupled with developments in field work that clearly evidence fatty acids acting as coatings in marine and other naturally occurring aerosol, is the driving force behind many of the experiments we discuss in the review and deserves to be acknowledged as such.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 11093, 2006.

ACPD

6, S5584–S5585, 2006

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