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Infrared Emission from Gas-Aerosol Reactions   Sep 1982   38 pages

Authors: Raymond A. Mackay; Edward W. Stuebing; DREXEL UNIV PHILADELPHIA PA DEPT OF CHEMISTRY

Full Text ... infrared emission by means of an exothermic reaction between a liquid **aerosol** and a **gas**. A number of gas-
aerosol systems employing acid-base **reactions** have been examined and significant levels of radiation observed
from the **reactions** of chlorosulfuric acid **aerosol** with gaseous amonia and water. Other systems which were
screened including sulfuric acid-ammonia, octanoic ... have produced detectable levels of radiation. Some
methods for the investigation of emission from the gas-aerosol **reactions** have been explored, and the results of
these studies utilizing a ...

A Cloud Chamber Study of the Effect Which Nonprecipitating Clouds Have   Sep 30, 1992   50 pages
on the Aerosol Size Distribution

Authors: G. M. Frick; W. A. Hoppel; J. W. Fitzgerald; B. J. Wattle; NAVAL RESEARCH LAB WASHINGTON DC

Full Text ... passes through a nonprecipitating cloud cycle, a subset of the **aerosol** population called cloud condensation
nuclei (... the droplets and undergo aqueous-phase chemical **reactions**, forming low-volatility products, such as
sulfates, ... mass can have a dramatic effect on the **aerosol** size distribution, causing the CCN to grow ... of SO2
to H2SO4 and a dramatic change in the **aerosol** size distribution. Subsequent cloud cycles (... the same
expansion rate and trace **gas** concentrations) exhibited very small mass ... pH of a droplet formed on a sulfuric
acid **aerosol** particle one-fiftieth its size is about 5. Atmospheric ...

Source Characterization of Heavy Gas Dispersion Models for Reactive   Dec 21, 1987   127 pages
Chemicals. Volume 1

Authors: Phani K. Raj; John A. Morris; TECHNOLOGY AND MANAGEMENT SYSTEMS INC BURLINGTON MA

Full Text ... are modeled including pressurized liquid releases, flashing and **aerosol** formation, two phase jet releases,
explosive releases ... the differences in source characteristics, high-than-air density of clouds (due to **aerosol**
presence, temperature or molecular weight). **Reactions** of the chemicals, if any, ..th ... are modeled and
considered in the dispersion model. Transition from heavy **gas** dispersion to near neutral density dispersion is
modeled without ... abrupt changes in size or discontinuity in concentrations. Keywords: Heavy **gas**, Dispersion,
Mathematical model, Reaction, Source models, Concentration ...

The Aggregated State of Matter: Elucidating Transitions from the Gas to the   Apr 21, 1989   39 pages
Condensed Phase and the Formation of Aerocolloids

Authors: A. W. Castleman Jr; PENNSYLVANIA STATE UNIV UNIVERSITY PARK DEPT OF CHEMISTRY

Full Text ... are influenced by the finite dimensions of the system--aerosols or aerocolloidal media in the **gas** phase, fine
particles, clusters or thin films at the surface ... of phase transformations, condensed matter and surfaces, and
aerosol science. In terms of application to programs of interest to the U.S. Army ... both natural and intentional
methods of particle generation, the dispersal of agents, mechanisms of **reactions** that are involved in combustion
and fast **reactions** in energetic ... in the area of propulsion and missile signatures, as well as **reactions** within
and on small particles that bear on the areas ...

Molecular Beam Studies of Reactions between Stratospheric Gases and   Apr 15, 2000   6 pages
Supercooled Sulfuric Acid

Authors: Gilbert M. Nathanson; John R. Morris; Peter M. Behr; Melissa D. Antman; Jennifer Splan; WISCONSIN UNIV-
MADISON DEPT OF CHEMISTRY

Full Text ... of the ozone layer by converting inactive gases like HCl and HBr into molecules that fall apart into chlorine and
bromine atoms, which catalytically destroy ozone. The first step in these **reactions** is the transport of **gas** phase
HCl and HBr molecules through the surface of the liquid **aerosol** and into the acid, where they dissolve and
dissociate. Our experiments show that the entry of HCl and HBr into sulfuric acid is often frustrated by immediate
HCl ...

Fundamentals of Soot Formation in Gas Turbine Combustors   Aug 31, 1998   78 pages

Authors: Meredith B. Colket Iii.; Robert J. Hall; David S. Liscinsky; Mitchell D. Smooke; UNITED TECHNOLOGIES
RESEARCH CENTER EAST HARTFORD CT

... has been used to investigate soot production in the flame. Detailed transport and finite rate chemistry in the
gas phase was coupled with the particle **aerosol** equations in the sectional representation. In comparison to

Full Text | measured data obtained using intrusive and non- intrusive diagnostics, the model ... deficit was attributed to limitations in the PAH growth model. Oxidation of particulates was dominated by **reactions** with hydroxyl radical at superequilibrium levels. Radiation losses significantly effected predicted temperatures.

Laboratory Studies of Al(2)O(3)-NO(x) Aerosols   Sep 30, 1999   13 pages

Authors: Robert Disselkamp; John R. Edwards; Daniel Pilson; Tyrrel W. Smith Jr.; TRW SPACE AND ELECTRONICS GROUP REDONDOBEACH CA

Full Text | ... samples over time. Each **aerosol** was created using the same procedure. First, a reactant **gas** species, NO or NO(2), was added to the chamber and infrared spectra were collected over a 20-minute time interval to characterize heterogeneous **reactions** occurring on the chamber walls. Next, an aluminum oxide **aerosol** was generated by expanding powder into the chamber using nitrogen **gas** at high pressure. ... reported on in this paper enabled a quantitative characterization of both the rate of reactant **gas** uptake and product formation processes to be performed. A quantitative (i.e., ...

Interim Proposal for Molecular Beam Studies of Surfactants in Sulfuric Acid Aerosols: Comparisons Between Hydrocarbon and Fluorocarbon Alcohols   May 1, 2003   6 pages

Authors: Gilbert M. Nathanson; WISCONSIN UNIV-MADISON DEPT OF CHEMISTRY

Full Text | Heterogeneous **reactions** of **gas** phase molecules with aqueous sulfuric acid aerosols play a significant role in ... in the stratosphere. These processes include the acid-catalyzed **reactions** of HCI and HBr with CIONO2 (BrONO2) and ... is to determine the mechanisms and rate-limiting steps of **reactions** of these atmospheric gases with these supercooled sulfuric acid ... the **gas** phase or react in the interfacial or bulk regions of the **aerosol**. In this interim grant period, we have explored the ... uptake and thereby reduce the rates of heterogeneous **reactions** in the acid. These surface-active organic molecules are ...

Use of Surface Chemkin to Model Multiphase Atmospheric Chemistry: Application to Nitrogen Tetroxide Spills   Mar 27, 2000   18 pages

Authors: Brian B. Brady; L. R. Martin; AEROSPACE CORP EL SEGUNDO CA MECHANICSAND MATERIALS TECHNOLOGY CENTER

Full Text | ... chemistry and physics. It can deal with multiple phases having different reaction manifolds in each phase, it deals with **gas**, surface, and bulk **reactions** and mass transfer rates, it keeps track of the phase equilibria with realistic activities, and it can operate in an ... spill in the troposphere. The model is able to predict the formation of a nitric acid/water **aerosol** and to follow the chemistry taking place in both the **gas** and liquid phases as the spill dilutes in the surrounding atmosphere. The model predicts that in ...

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