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**Atmospheric
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Despite their extremely small size, submicron atmospheric aerosols are critical pollutants with climate change, air quality, and human health implications. Of these particles, secondary organic ...

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Emissions from human activity modify biogenic secondary organic aerosol formation

Scientists have mapped wind "rivers" in Earth's atmosphere that are responsible for transporting huge quantities of aerosols around the planet. Particles that travel through these atmospheric rivers ...

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New study maps out

Earth's global

atmospheric rivers

Satellite images show

how quickly clouds

respond to aerosols

emitted by ships,

helping inform climate

modeling.

Ship tracks show

how aerosols affect

clouds fast and slow

If there's one thing

humans hate, it's

exercising willpower.

Whether its abstaining

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from unhealthy foods,
going to bed early, or
using less energy and
reducing greenhouse
gas ...

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**Blocking Out The
Sun: Viable Climate
Countermeasure Or
Absolute Madness?**

Updated maps show
how U.S. temperatures
and rainfall patterns
are shifting - and
reveal some clues
about the future.

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The atmospheric aerosol has profound ...

States and other industrial nations. The

optical properties of the aerosol affect local and regional visibility and Earth's radiation balance, hence global

...

Chapter 13:

Atmospheric Aerosol

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Aerosols
Dynamics

This book builds on Salby's previous book, Fundamentals of Atmospheric Physics. The scope has been expanded into climate, with the presentation ... do research on the important open questions about ...

**Physics of the
Atmosphere and
Climate**

Submicron
atmospheric aerosols

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Aerosols

exert a highly uncertain effect on radiative ... Here we integrate observations and modeling to better characterize the physical and chemical properties and climate ...

Evolution of Organic Aerosols in the Atmosphere

The station is uniquely positioned—literally—to provide invaluable insight into

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“Cleanest Air in Europe” Contributes to Climate Change Research

Ice core data from Greenland shows why air pollution is reducing slower than sulfur emissions reductions.

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As cloud droplets become less acidic, the chemical reaction that turns sulfur dioxide into ...

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Ice core data show why, despite lower sulfur emissions in US and Western Europe, air pollution is dropping more slowly

Effects on cloud reflectivity caused by the production of atmospheric aerosol

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**Aerosol-cloud-
climate cooling
overestimated by
ship-track data**

Some climate experts say drastic times call for drastic measures. But would these geoengineering plans help or hurt the planet?

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Carbon capture and "dimming" the sun: Climate geoengineering poses technical and ethical dilemmas

Aerosols - tiny droplets of liquid suspended in the air - have interesting chemical and physical properties. They can be made naturally from sea spray and some biological processes, but they

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Aerosols have three different liquid phases

Could we slow down global warming by creating an aerosol reflector to deflect ... thinning cirrus clouds high in the atmosphere.) "While climate models have become quite advanced in predicting ...

Can we reflect
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Aerosols

sunlight to fight

climate change?

Scientists eye

aerosol shield for

Earth.

Extra greenhouse
gases in the

atmosphere trap more

... The most bandied-

about block-the-sun

climate Band-Aid goes

by the jargon-heavy

name of "stratospheric

aerosol intervention,"

and it ...

Is blocking out the

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**sun a good solution
to the climate crisis?**

Aerosol products used in the home now emit more harmful volatile organic compound (VOC) air pollution than all the vehicles in the UK, new research shows. A new study by the University of York and the ...

**Household aerosols
now release more
harmful smog
chemicals than all**

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UK vehicles

They produced the largest input of wildfire smoke to the

stratosphere observed in the satellite era, and had measurable effects on the atmosphere of

... stratospheric aerosols is crucial to ...

Giant Australian bushfire injected 1 million tons of smoke in the atmosphere

And consistent with

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what climate models have shown for decades, greenhouse gases and suspended pollution particles in the atmosphere, called aerosols, from the burning of fossil fuels are ...

NASA measures direct evidence humans are causing climate change

The current work in the Davidovits laboratory is focused on the study

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chemical and optical properties of atmospheric aerosols including soot aerosols. Such aerosols have been shown to have important ...

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In this study, we designed a sensitivity test using the half number concentration of sulfate in the nucleation calculation process to study the

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