

# Air Pollution – Research Articles



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**Chemistry Review** is a commercial magazine (Hodder Education) aimed at post-16 students and their teachers. Most secondary school libraries should have back copies.

You may be interested in these short articles:

Tim Harrison, Dudley Shallcross, Anwar Khan, Alison Trew. **Air quality and data mining.** Chemistry Review, 31(1), pp2-4, September 2021.

Tim Harrison, Dudley Shallcross, Anwar Khan, Alison Trew. **How did lockdown affect air quality?** Chemistry Review, 31(1), pp26-28, September 2021.

You may also be interested in the following short articles, written by climate researchers at the University of Bristol, which also include questions (with answers) for those wishing to use them as a comprehension task.

Title	Author(s)	Topics
<a href="#"><u>Dimethylsulfide (DMS) in the Troposphere</u></a>	Prof Dudley Shallcross	free radicals, climate change, oxidation, volatile organic compounds, natural products
<a href="#"><u>Reconstructing Past Climates Using Molecular Fossils</u></a>	Dr Gordon Inglis	molecular fossils, climate change, biomarkers
<a href="#"><u>Leaf Cutter Ants, Farmed Fungus and Ozone Depletion</u></a>	Prof Dudley Shallcross and Dr Anwar Khan	halogenoalkanes, climate change, ozone depletion, GCMS, analysis
<a href="#"><u>How are aircraft affecting our atmosphere?</u></a>	Amy Foulds	contrails, climate change, NO <sub>x</sub> , free radicals
<a href="#"><u>Climate Change and Industrial Sources of Fluorinated Hydrocarbons</u></a>	Eleni Michalopoulou	Emissions, global warming potential, rare earths, aluminium smelting, semiconductor industry
<a href="#"><u>Tracking India's consumption of ozone-depleting substances</u></a>	Dr Daniel Say	Montreal Protocol, climate change, India, halocarbons, ozone-depletion, CFC, HCFC, HFC
<a href="#"><u>Removal of Trifluoroacetic Acid from the Atmosphere by Criegee Intermediates</u></a>	Dr Rabi Chhantyal Pun	Climate change, Criegee, free radicals, computational chemistry, CFCs
<a href="#"><u>Spectroscopy and Photochemistry of</u></a>	Dr Barbara Marchetti	Climate change, Criegee, free radicals, ozonolysis,



[Atmospherically Relevant  
Oxidants: Criegee Intermediates](#)

laser, electromagnetic  
spectrum, TOF

[Perfluorooctanoic acid and how  
anthropogenic pollutants  
contaminate remote  
environments](#)

Rayne Holland

Pollution transport, PFCAs,  
free radicals, oceans

[Policing the Atmosphere: Tracking  
Greenhouse Gas Emissions](#)

Dr. Daniel Say

Greenhouse gases,  
climate change,  
modelling, Paris  
agreement

[Cows, Hydrogen Isotopes, and  
Climate Change](#)

Susannah Smith

Ruminants, fatty acids,  
isotopes, climate change

