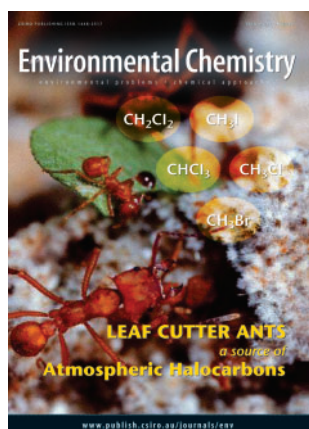




# Environmental Chemistry

environmental problems • chemical approaches



## Cover

In recent years, ozone-depleting gases with biogenic sources have become important relative to the large reductions in anthropogenic emissions in response to the Montreal Protocol. The global budgets of the biogenic halocarbons are unbalanced with known sinks outweighing sources, suggesting that additional natural sources are required to balance the budgets. In M. I. Mead et al. (pp. 5–10), an investigation has been carried out to determine the importance of leaf cutter ants as a missing source of the biogenic halocarbons, which will reduce the discrepancy of the global budget of the halocarbons.



Until recently there was little consideration that regional or global problems might result from the release of chemical substances to the environment. Ian Rae, in his Opinion Essay, discusses the impact of these chemicals on the environment from his perspective following his roles on various committees with the Montreal Protocol, and with the Stockholm Convention on POPs. See pp. 1–4.

## OPINION

Something in the air: connections between global warming, ozone depletion, POPs and particulates

*I. D. Rae*

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## RAPID COMMUNICATIONS

Leaf cutter ants: a possible missing source of biogenic halocarbons

*M. I. Mead, M. A. H. Khan, G. Nickless, B. R. Greally, D. Tainton, T. Pitman and D. E. Shallcross*

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Methyl and ethyl nitrate saturation anomalies in the Southern Ocean (36–65°S, 30–70°W)

*C. Hughes, A. L. Chuck, S. M. Turner and P. S. Liss*

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Trace metal dynamic speciation studied by scanned stripping chronopotentiometry (SSCP)

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Sequestration and retention of uranium(VI) in the presence of hydroxylapatite under dynamic geochemical conditions

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Distributions and fluxes of contaminant metals in the North Sea: comparisons between field measurements and model simulations using NOSTRADAMUS

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Fluoride removal from aqueous solution by Ca-pretreated macrophyte biomass

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Aluminoborosilicate waste glass dissolution under alkaline conditions at 40°C: implications for a chemical affinity-based rate equation

*E. M. Pierce, E. L. Richards, A. M. Davis, L. R. Reed and E. A. Rodriguez*

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