10.1071/ENv6n4toc

Environmental Chemistry
environmental problems • chemical approaches

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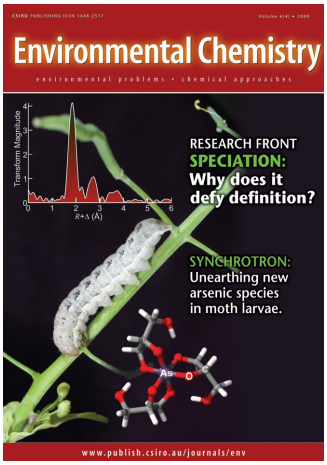
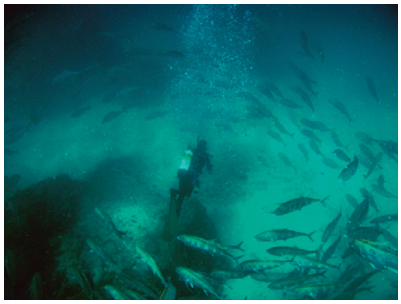


Cover

The goal of *Environmental Chemistry* is to become the journal of choice among environmental scientists reporting speciation. The Research Front in this issue (see Editorial, pp. 273–274) presents a number of different approaches to identifying and quantifying chemical species in various compartments in the environment. The cover depicts a bertha armyworm moth and the unusual oxidised arsenic species it excreted. Pickering et al. identified the compound using synchrotron-generated X-ray spectroscopy (see pp. 298–304).



"Four decades of research on metal speciation and bioavailability have failed to answer the 'big questions' of the ecological consequences of metal stress" writes Janet Hering in her Opinion Essay on metal speciation and bioavailability (see pp. 290–293). An opportunity exists, however, in the 'omics' approach – the application of genomic tools to ecological questions presents the possibility of providing sufficient information to identify a quantitative signature of metal stress in, for example, the marine ecological environment.

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