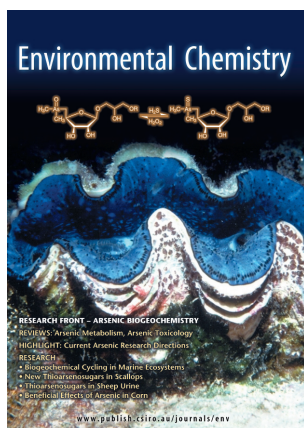


Environmental Chemistry

environmental problems • chemical approaches

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We do not yet fully understand all the biogeochemical cycles of arsenic and the specific toxic effects, if any, different compounds have on our health. Arsenic metabolism by seaweed-eating sheep, the benefits of arsenic for corn roots, speciation of arsenic in a marine ecosystem and reports of newly discovered arsenic compounds produced by living organisms are all topics in the Research Front (pp. 139–197).

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Arsenic is a known carcinogen in humans. As well as contaminating the drinking water of tens of millions of people worldwide, arsenic can exist in many chemical forms. It is critical that we develop methods to measure arsenic speciation accurately and reliably, as reviewed by Ng (p. 146).

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