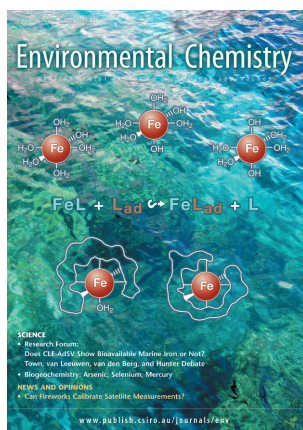


Environmental Chemistry

environmental problems • chemical approaches

CONTENTS



Cover

The electrochemical technique CLE-AdSV is widely used to quantify binding constants of metal complexes. Measurements are made upon addition of an excess of an adsorptive ligand L_{ad} which competes with other ligands L . Iron may be complexed by water and hydroxide (top structures) and water-borne organic material (bottom structures). Have measurements with this technique been misinterpreted? Learn more in the Research Forum featuring papers by Town and van Leeuwen, Hunter, and van den Berg (pp. 80–93).

FOREWORD

The Case of Measuring Marine Iron(III) Complexes

G. E. Batley 79

BOOK REVIEWS

'Principles of Environmental Chemistry', by J. E. Gurrard

W. Maher 138

'Chemometrics in Analytical Spectroscopy', by M. J. Adams

A. Nolan 138



Fireworks inject a number of chemicals into the atmosphere in a brief time and over a small space. This highly localized 'patch' could allow validation of satellite-based measurements against ground measurements, as described by Williams and coworkers (p. 94).

RESEARCH FORUM

Marine Iron Biogeochemistry

HIGHLIGHT

Measuring Marine Iron(III) Complexes by CLE-AdSV

R. M. Town, H. P. van Leeuwen 80

COMMENT

Comment on 'Measuring Marine Iron(III) Complexes by CLE-AdSV'

K. A. Hunter 85

Organic Iron Complexation Is Real, The Theory Is Used Incorrectly. Comment on 'Measuring Marine Iron(III) Complexes by CLE-AdSV'

C. M. G. van den Berg 88

Reply to Comments on 'Measuring Marine Iron(III) Complexes by CLE-AdSV'

R. M. Town, H. P. van Leeuwen 90

RAPID COMMUNICATIONS

Remote Sensing

Firework Emissions for Satellite Validation?

J. Williams, F. Drewnick, S. S. Hings, J. Curtius, G. Eerdekens, T. Klüpfel, T. Wagner 94

Trace Metal Biogeochemistry

Caudal Fin Mercury as a Non-Lethal Predictor of Fish-Muscle Mercury

P. T. Gremillion, J. V. Cizdziel, N. R. Cody 96

RESEARCH PAPERS

Trace Metal Biogeochemistry

Effect of Sulfate on Selenium Uptake and Chemical Speciation in *Convolvulus arvensis* L.

G. Cruz-Jimenez, J. R. Peralta-Videa, G. de la Rosa, G. Meitzner, J. G. Parsons, J. L. Gardea-Torresdey 100

Occurrence and Speciation of Arsenic in Common Australian Coastal Polychaete Species

J. Waring, W. Maher, S. Foster, F. Krikowa 108

Arsenic's Interaction with Humic Acid

P. Warwick, E. Inam, N. Evans 119

Persistent Organic Pollutants

Indirect Oxidation of RDX, HMX, and CL-20 Cyclic Nitramines in Aqueous Solution at Boron-Doped Diamond Electrodes

P. M. L. Bonin, D. Bejan, Z. Radovic-Hrapovic, A. Halasz, J. Hawari, N. J. Bunce 125

Photocatalytic Activity of Neodymium Ion Doped TiO_2 for 2-Mercaptobenzothiazole Degradation under Visible Light Irradiation

F. B. Li, X. Z. Li, K. W. Cheah 130

EARLY ALERT Sign-up at www.publish.csiro.au/journals/env for our electronic early alert and receive the next table of contents **weeks in advance** of the print version.