

## Contents Volume 56

Equilibrium analysis of the affect of temperature, moisture and sodium content on heavy metal emissions from municipal solid waste incinerators S.K. Durlak, P. Biswas and J. Shi (Cincinnati, OH, USA) . . . . .	1
An NMR, XRD and EDS study of solidification/stabilization of chromium with Portland cement and C <sub>3</sub> S C.-K. Lin, J.-N. Chen and C.-C. Lin (Hsinchu, Taiwan) . . . . .	21
Sorption of cadmium and other heavy metals by pine bark S. Al-Asheh and Z. Duvnjak (Ottawa, Ontario, Canada) . . . . .	35
Toxicity of and metals in coal combustion ash leachate M. Karupiah and G. Gupta (Princess Anne, MD, USA) . . . . .	53
Field experiments with dispersion of pressure liquefied ammonia M. Nielsen, S. Ott, H.E. Jørgensen (Roskilde, Denmark), R. Bengtsson (Landskrona, Sweden), K. Nyrén, S. Winter (Umeå, Sweden), D. Ride and C. Jones (Salisbury, UK) . . . . .	59
Formation of explosive compounds in acid-contaminated leaded rubber gloves. Part I: theoretical analysis B. Mishra, A.G. Raraz, D.L. Olson and W.A. Averill (Golden, CO, USA) . . . . .	107
A scheme of hazardous chemical identification for transportation incidents L. Chen (Shanghai, China), D. Jiang and J. Xia (Hong Kong, Hong Kong) . . . . .	117
The formation of explosive chlorine–nitrogen compounds during the processes of precious metals separation M. Knothe (Freiberg, Germany) and W. Hasenpusch (Frankfurt, Germany) . . . . .	137
Evaluation of the debris throw from the 1992 explosion in the Steingletscher installation in Switzerland P.O. Kummer (Zollikoberg, Switzerland) . . . . .	149
Phytofiltration of hazardous metal ions by alfalfa: a study of calcium and magnesium interferences J.L. Gardea-Torresdey, K.J. Tiemann, J.H. Gonzalez and O. Rodriguez (El Paso, TX, USA) . . . . .	169
Increases of lead and chromium in drinking water from using cement–mortar-lined pipes: initial modeling and assessment Q. Guo (Piscataway, NJ, USA) . . . . .	181
<i>Book reviews</i> . . . . .	215
<i>Discussions</i> . . . . .	219
<i>Announcement</i> . . . . .	223
<i>Erratum</i> . . . . .	225
Studies on the evaporation of crude oil and petroleum products: I. the relationship between evaporation rate and time M.F. Fingas (Quebec, Canada) . . . . .	227
Experimental study of the pressure and temperature dependence on the upper flammability limit of methane/air mixtures B. Vanderstraeten, D. Tuerlinckx, J. Berghmans (Leuven-Heverlee, Belgium), S. Vliegen, E. Van't Oost and B. Smit (Geleen, Netherlands) . . . . .	237

Hydrothermal decomposition and oxidation of <i>p</i> -nitroaniline in supercritical water D.S. Lee, K.S. Park, Y.W. Nam (Seoul, South Korea), Y.-C. Kim (Daejeon, South Korea) and C.H. Lee (Kongju, South Korea) . . . . .	247
A dynamic model for the electrokinetic removal of copper from a polluted soil A.B. Ribeiro and J.T. Mexia (Monte da Caparica, Portugal) . . . . .	257
Development and test of an evaluation protocol for heavy gas dispersion models N.J. Duijm (Roskilde, Denmark), B. Carissimo (Chatou, France), A. Mercer (Sheffield, UK), C. Bartholome (Brussels, Belgium) and H. Giesbrecht (Ludwigshafen, Germany) . . . . .	273
Treating contaminated sediment with a two-stage base-catalyzed decomposition (BCD) process: bench-scale evaluation A.S.C. Chen, A.R. Gavaskar, B.C. Alleman (Columbus, OH, USA), A. Massa (Upper Montclair, NJ, USA), D. Timberlake (Cincinnati, OH, USA) and E.H. Drescher (Columbus, OH, USA) . . . . .	287
A new simple method for monitoring permeation through clothing materials of dibutyl sulphide, a chemical warfare agent simulant V. Vojković, V. Allegretti Živčić, B. Tamhina and D. Škare (Zagreb, Croatia) . . . . .	307
Ion velocity in soil solution during electrokinetic remediation F. Baraud, S. Tellier and M. Astruc (PAU, France) . . . . .	315
<i>Book review</i> . . . . .	333
<i>Author index</i> . . . . .	335
<i>Subject index</i> . . . . .	337
<i>Volume contents</i> . . . . .	339