



Contents Volume 84

Part A: Risk Assessment and Management

- Important aspects of behaviour of organic energetic compounds: a review
A.K. Sikder, G. Maddala, J.P. Agrawal and H. Singh (Pune, India) 1

Part B: Environmental Technologies

- Electrocoagulation (EC) — science and applications
M. Yousuf, A. Mollah, R. Schennach, J.R. Parga and D.L. Coker (Beaumont, TX, USA) 29
- On the pyrolysis kinetics of scrap automotive tires
J.H. Chen (Taipei, Taiwan), K.S. Chen and L.Y. Tong (Kaohsiung, Taiwan) 43
- Chemical oxidation of methylene blue using a Fenton-like reaction
K. Dutta, S. Mukhopadhyay, S. Bhattacharjee and B. Chaudhuri (Calcutta, India) 57
- Irreversible precipitation of mercury and lead
M.M. Matlock, B.S. Howerton and D.A. Atwood (Lexington, KY, USA) 73
- The removal of heavy metals from aqueous solutions by sawdust adsorption — removal of lead and comparison of its adsorption with copper
B. Yu, Y. Zhang, A. Shukla (Houston, TX, USA), S.S. Shukla and K.L. Dorris (Beaumont, TX, USA) 83
- A refinement of the biofilm formation method for waste forms stability evaluation
M.A. Idachaba, K. Nyavor, N.O. Egiebor (Tuskegee, AL, USA) and R.D. Rogers (Idaho Falls, ID, USA) 95
- Degradation of dye solution by an activated carbon fiber electrode electrolysis system
Z. Shen (Beijing, PR China), W. Wang, J. Jia, J. Ye, X. Feng (Shanghai, PR China) and A. Peng (Beijing, PR China) 107

Part A: Risk Assessment and Management

- Synthesis and characterisation of 4-picrylamino-2,6-dinitrotoluene (PADNT): a new insensitive explosive
Mehilal, R.B. Salunke, A.K. Sikder and J.P. Agrawal (Pune, India) 117
- Analysis of fire and explosion hazards of some hydrocarbon–air mixtures
Y. Lizhong, F. Weicheng, Z. Xiaodong and W. Qing'an (Anhui Province, PR China) 123

Part B: Environmental Technologies

- Adsorption of chlorinated hydrocarbon vapors onto soil in the presence of water
M.C. Tekrony and R.C. Ahlert (Piscataway, NJ, USA) 135
- Sensitivity of leachate and fine contents on electrical resistivity variations of sandy soils
G.L. Yoon (Ansan, South Korea) and J.B. Park (Seoul, South Korea) 147
- Release of Cr(III) from Cr(III) picolinate upon metabolic activation
S.A. Kareus, C. Kelley (Flagstaff, AZ, USA), H.S. Walton and P.R. Sinclair (White River Junction, VT, USA) 163
- Polycyclic aromatic hydrocarbon (PAH) emissions from a coal-fired pilot FBC system
K. Liu, W. Han, W.-P. Pan and J.T. Riley (Bowling Green, KY, USA) 175

A review of structure-based biodegradation estimation methods J.W. Raymond, T.N. Rogers, D.R. Shonnard and A.A. Kline (Michigan, MI, USA)	189
Adsorption of hydrazoic acid from aqueous solution by macroreticular resin S.H. Lin and C.P. Huang (Chungli, Taiwan)	217
A combined treatment approach using Fenton's reagent and zero valent iron for the removal of arsenic from drinking water Krishna M.V.B., K. Chandrasekaran, D. Karunasagar and J. Arunachalam (Hyderabad, India)	229
The absorption kinetics of NO in NaClO ₂ /NaOH solutions H. Chu, T.-W. Chien and B.-W. Twu (Tainan, Taiwan)	241
Microorganism selection and biosurfactant production in a continuously and periodically operated bio-slurry reactor D.P. Cassidy and A.J. Hudak (Kalamazoo, MI, USA)	253
A procedure for production of adapted bacteria to degrade chlorinated aromatics C. Seignez (Lausanne, Switzerland), A. Vuillemin (La Barre, France), N. Adler and P. Peringer (Lausanne, Switzerland)	265
Assessment of electrokinetic removal of heavy metals from soils by sequential extraction analysis K.R. Reddy (Chicago, IL, USA), C.Y. Xu (Columbus, OH, USA) and S. Chinthamreddy (Chicago, IL, USA)	279
Removal of contaminant metals from fine grained soils, using agglomeration, chloride solutions and pile leaching techniques S. Tampouris, N. Papassiopi and I. Paspaliaris (Athens, Greece).	297
<i>Book reviews</i>	321
<i>Instructions to Authors</i>	325
<i>Author Index Volume 84</i>	331
<i>Subject Index Volume 84</i>	333
<i>Contents Volume 84</i>	335