



Contents Volume 92

Special Issue: Integrated Remediation

<i>Preface</i>	ix
Analysis of the steam injection at the Visalia Superfund Project with fully compositional nonisothermal finite difference simulations M.I. Kuhlman (Houston, TX, USA)	1
Membrane-based hybrid processes for high water recovery and selective inorganic pollutant separation S.M.C. Ritchie and D. Bhattacharyya (Lexington, KY, USA)	21
Comparing the performance of various advanced oxidation processes for treatment of acetone contaminated water R. Hernandez, M. Zappi (Starkville, MS, USA), J. Colucci (Puerto Rico, USA) and R. Jones (Vicksburg, MS, USA)	33
Dechlorination of PCBs, CAHs, herbicides and pesticides neat and in soils at 25 °C using Na/NH ₃ C.U. Pittman Jr. and J. He (Mississippi State, MS, USA)	51
Reduction of suspended solids following hydroclassification of metal-contaminated soils C.W. Williford Jr. (Oxford, MS, USA), R. Mark Bricka (Vicksburg, MS, USA) and C.C. Foster (Oxford, MS, USA)	63
Anaerobic treatment of pinkwater in a fluidized bed reactor containing GAC S.W. Maloney, N.R. Adrian (Champaign, IL, USA), R.F. Hickey and R.L. Heine (Lansing, MI, USA)	77
Effects of <i>n</i> -hexadecane and PM-100 clay on trichloroethylene degradation by <i>Burkholderia cepacia</i> W. Todd French, L.R. Brown, D.N. Downer (Mississippi State, MS, USA), H.L. Fredrickson and C.L. Teeter (Vicksburg, MS, USA)	89
Effect of food-grade surfactant on bioremediation of explosives-contaminated soil R. Boopathy (Thibodaux, LA, USA)	103
Part A: Risk Assessment and Management	
Explosibility boundaries for fly ash/pulverized fuel mixtures A.G. Dastidar and P.R. Amyotte (Halifax, Canada)	115
Part B: Environmental Technologies	
Effectiveness of commercial reagents for heavy metal removal from water with new insights for future chelate designs M.M. Matlock, K.R. Henke and D.A. Atwood (Lexington, KY, USA)	129
Effects of ferrous iron and molecular oxygen on chromium(VI) redox kinetics in the presence of aquifer solids I. Hwang (Seoul, South Korea), B. Batchelor (College Station, TX, USA), M.A. Schlautman (Clemson, SC, USA and Pendleton, SC, USA) and R. Wang (Copper Cliff, Canada)	143
Removal of mercury(II) from aqueous solutions and chlor-alkali industry effluent by steam activated and sulphurised activated carbons prepared from bagasse pith: kinetics and equilibrium studies K. Anoop Krishnan and T.S. Anirudhan (Trivandrum, India)	161

Studies on adsorptive removal of Co(II), Cr(III) and Ni(II) by IRN77 cation-exchange resin S. Rengaraj, K.-H. Yeon, S.-Y. Kang, J.-U. Lee, K.-W. Kim and S.-H. Moon (Kwangju, South Korea)	185
Stabilization/solidification (S/S) of mercury-containing wastes using reactivated carbon and Portland cement J. Zhang and P.L. Bishop (Cincinnati, OH, USA)	199
Book reviews	213
Instructions to Authors	217
Part A: Risk Assessment and Management	
A “worst case” methodology for obtaining a rough but rapid indication of the societal risk from a major accident hazard installation I.L. Hirst and D.A. Carter (Merseyside, UK)	223
Part B: Environmental Technologies	
Nitric oxide adsorption and desorption on alumina supported palladium C.-B. Wang, T.-F. Yeh and H.-K. Lin (Taoyuan, Taiwan)	241
Removal and recovery of lead using nonliving biomass of marine algae R. Jalali, H. Ghafourian, Y. Asef, S.J. Davarpanah and S. Sepehr (Tehran, Iran)	253
Use of cellulose-based wastes for adsorption of dyes from aqueous solutions G. Annadurai (Taipei, Taiwan), R.-S. Juang (Chung-Li, Taiwan) and D.-J. Lee (Taipei, Taiwan)	263
Adsorption and removal of arsenic(V) from drinking water by aluminum-loaded Shirasu-zeolite Y.-h. Xu, T. Nakajima and A. Ohki (Kagoshima, Japan)	275
Improvement of metakaolin on radioactive Sr and Cs immobilization of alkali-activated slag matrix Q. Guangren, L. Yuxiang, Y. Facheng and S. Rongming (Mianyang, PR China)	289
Oxidative pyrolysis of organic ion exchange resins in the presence of metal oxide catalysts R.-S. Juang and T.-S. Lee (Chung-Li, Taiwan)	301
Heavy metal removal from water by sorption using surfactant-modified montmorillonite S.-H. Lin and R.-S. Juang (Chung-Li, Taiwan)	315
 <i>Author Index Volume 92</i>	327
 <i>Subject Index Volume 92</i>	329
 <i>Contents Volume 92</i>	331