



Contents
Volume 23

Editorial	1
Effect of pressure and pH over the removal of disinfection by-products using nanofiltration membranes in discontinuous systems I. Sentana, M. Rodríguez, E. Sentana and D. Prats (Spain).....	3
A novel anionic electro dialysis membrane can be used to remove nitrate and nitrite from wastewater E. Selmane Bel Hadj Hmida, A. Ouejhani (Tunis El Manar, Tunisie), G. Lalléve, J.F. Fauvarque (Paris, France) and M. Dachraoui (Tunis El Manar, Tunisie).....	13
Long chain fatty acids removal in selector tanks: Evidence for insufficient <i>Microthrix parvicella</i> control C. Noutsopoulos, D. Mamais and A. Andreadakis (Athens, Greece)	20
Estimating the bioremediation of green table olive processing wastewater using a selected strain of <i>Aspergillus niger</i> K.-E. Lasaridi, C. Chroni, S. Fortatos, I. Chatzipavlidis and A. Kyriacou (Greece)	26
Effect of temperature on ion exchange equilibrium between AMX membrane and binary systems of Cl ⁻ , NO ₃ ⁻ and SO ₄ ²⁻ ions F. Guesmi, Ch. Hannachi and B. Hamrouni (Manar II, Tunisia).....	32
Fuel cell operated reverse osmosis desalination system M.A. Darwish (Safat, Kuwait).....	39
Preliminary study of calcium silicate hydrate (tobermorite) as crystal material to recovery phosphate from wastewater J.Q. Jiang and L. Wu (Surrey, UK)	49
Inhibition effects of heavy metals (copper, nickel, zinc, lead) on anaerobic sludge M. Sarioglu, S. Akkoyun and T. Bisgin (Sivas, Turkey).....	55
Decolorization of Basic Red 46 and Methylene Blue by anaerobic sludge: Biotic and abiotic processes M. Sarioglu and T. Bisgin (Sivas, Turkey)	61
H ₂ O ₂ /UV-C and Fe ²⁺ /H ₂ O ₂ /UV-C treatment of a commercial naphthalene sulphonate (H-acid) G. Tureli, B.H. GURSOY, T. Olmez-Hanci and I. Arslan-Alaton (Istanbul, Turkey).....	66
Monitoring of microbial storage products and the efficiency of an activated sludge plant performing anoxic phosphorus removal under different operational conditions I. Zafiriadis, A.G. Kapagiannidis and A. Aivasidis (Xanthi, Greece)	73
Determination of nonylphenol ethoxylates in wastewater samples with SPME/GC-MS E.E. Klontza, E.E. Koukouraki and E. Diamadopoulos (Chania-Crete, Greece)	80
Grey water treatment and reuse by using RBC: A kinetic approach A. Baban, S.M. Hocaoglu, E.A. Atasoy, K. Gunes, S. Ayaz (Kocaeli, Turkey) and M. Regelsberger (Gleisdorf, Austria)	89
Arsenate, Cadmium and Lead affect the plant detoxification cascade for organic pollutants P. Schröder, L. Lyubenova and C. Huber (Neuherberg, Federal Republic of Germany)	95
Mechanism of NDMA formation during ferrate or permanganate reactions with aqueous solutions of dimethylamine (DMA) P. Andrzejewski and J. Nawrocki (Poznan, Poland).....	101
Removal of boron from waste waters using HDTMA-modified zeolites P. Demircivi and G. Nasün-Saygili (Istanbul, Turkey)	110
Monitoring emerging chlorination by-products in drinking water using UV-absorbance and fluorescence indexes P. Roccaro and F.G.A. Vagliasindi (Catania, Italy)	118

Potential of on-site vermicomposting of sewage sludge in soil quality improvement G. Masciandaro, V. Bianchi, C. Macci, S. Doni, B. Ceccanti and R. Iannelli (Pisa, Italy)	123
Dewaterability of MBR sludge loaded with tannery wastewater L. d'Antonio and R.M.A. Napoli (Naples, Italy)	129
Combined biological and chemical-physical process for olive mill wastewater treatment A. Chiavola, G. Farabegoli and E. Rolle (Rome, Italy)	135
Aerial infrared thermography in the surface waters contamination monitoring M. Lega and R.M.A. Napoli (Naples, Italy)	141
Effects of intracellular /dissolved ratios of microcystin-LR on its removal by ultrafiltration R. Iannelli, V. Bianchi, A. Carducci, R. Battistini, A. Ceccarini and R. Fuoco (Pisa, Italy).....	152
PAHs contaminated soils remediation by ozone oxidation L. Russo, L. Rizzo and V. Belgiorno (Fisciano (SA), Italy)	161
Fenton oxidation treatment of tannery wastewater and tanning agents: synthetic tannin and nonylphenol ethoxylate based degreasing agent G. Lofrano, S. Meric (Fisciano (SA), Italy), M. Inglese (Naples, Italy), A. Nikolau (Mytilene, Greece) and V. Belgiorno (Fisciano (SA), Italy).....	173
Influence of ultrasound on phenol removal by adsorption on granular activated carbon M. Landi, V. Naddeo and V. Belgiorno (Fisciano (SA), Italy)	181
A catalytic oxidation process of olive oil mill wastewaters using hydrogen peroxide and copper S. De Rosa and A. Siciliano (Arcavacata di Rende (CS), Italy)	187
Chromium removal from tannery wastewater using ground shrimp shells M. Fabbicino and R. Gallo (Naples, Italy)	194
Treatment efficiency and sludge characteristics in conventional and suspended PVA gel beads activated sludge treating Cr (VI) containing wastewater C.A. Papadimitriou (Thessaloniki, Greece), H.K. Karapanagioti (Patra, Greece), P. Samaras (Kozani, Greece) and G.P. Sakellaropoulos (Thessaloniki, Greece)	199
Effect of acclimatization factors on reproducibility of biogas production in anaerobic cultures from electrochemically pre-treated or filtered olive mill wastewater M. Patoni and N. Kalogerakis (Chania, Greece).....	206
Author Index.....	214