



An experimental comparative study on different configurations of basin solar still H. Ensafisoroor (Wuhan, China), M. Khamooshi, F. Egelioglu and K. Parham (Famagusta, Turkey).....	1901
Guidelines for hydraulic analysis of treatment plants equipped with ultrafiltration and reverse osmosis membranes A. Alidai and I.W.M. Pothof (Delft, The Netherlands)	1917
Development of ceramic membranes from low-cost clays for the separation of oil–water emulsion K. Suresh and G. Pugazhenthii (Guwahati, India).....	1927
Research on hydrophilicity and hydrophobicity of adsorption of NOM on metal oxide/water interface Yanqing Zhang, Meng Li, Si Wu and Qian Zhang (Wuhan, China)	1940
Zeolite-induced catalytic ozonation of p-aminobenzenesulfonic acid in a bubbling reactor S. Zhang (Tianjin), D. Wang (Dalian), P.P. Fan (Tianjin) and L. Zhou (Hefei, China)	1949
Electrospun nanofibrous composite membranes of chitosan/polyvinyl alcohol-polyacrylonitrile: preparation, characterization, and performance F. Hejazi and S.M. Mousavi (Mashhad, Iran)	1959
Accumulated impact of operating conditions on the specific cake resistance in dead-end microfiltration mode Zhan Wang, Ximing Zhang (Beijing), Xu Wang (Urumqi) and Yawen Lyu (Beijing, China)	1967
Inhibition of calcium carbonate and sulfate scales by a non-phosphorus terpolymer AA-APEY-AMPS Yunyun Bu, Yuming Zhou, Qingzhao Yao, Yiyi Chen (Nanjing), Wei Sun and Wendao Wu (Changzhou, China)	1977
Separation of surfactants from water by granular activated carbon/ultrafiltration hybrid process M. Zahoor (Chakdara Dir, Pakistan)	1988
Hybrid materials in the remediation of arsenic contaminated waters: a physico-chemical study Thanhmingliana, D. Tiwari (Aizawl, India) and S.-M. Lee (Gangneung, Korea)	1995
Optimization of lead (II) sorption potential using developed activated carbon from tamarind wood with chemical activation by zinc chloride J.N. Sahu (Kharagpur), J. Acharya (Silchar), B.K. Sahoo and B.C. Meikap (Kharagpur, India)	2006
Selective adsorption of lead (II) ions by a manganese dioxides-loaded adsorption resin Ying Xiong (Shenzhen), Xuemei Lu (Beijing) and Huchun Tao (Shenzhen, China).....	2018
Biosorption of Pb(II) from aqueous solution by spent black tea leaves and separation by flotation A.A. Mohammed, F.I. Abed and T.J. Al-Musawi (Baghdad, Iraq)	2028
Distribution of Pb(II) in the chemical fractions of activated sludge during sorption Guowei Zhang, Dongfang Liu, Xiancai Song, Xianrong Meng, Matthew Frigon, Jianbo Lu and Kexun Li (Tianjin, China)	2040
Investigation of Cu(II) removal by cobalt-doped iron oxide captured in PVA-alginate beads E.T. Wong, K.H. Chan, M. Irfan and A. Idris (Johor Bahru, Malaysia)	2052
Removal of Cu ²⁺ from the aqueous solution by tartrate-intercalated layered double hydroxide Yanming Shen, Xiaolei Zhao, Xi Zhang, Shifeng Li, Dongbin Liu and Lihui Fan (Shenyang, China)	2064
Electrochemical destruction of polyvinyl alcohol mediated by electrogenerated Ce(IV) in aqueous solution Kai-Yu Huang (Yunlin), Wei-Lung Chou (Taichung), Chih-Ta Wang (Tainan) and Chi-Min Shu (Yunlin, Taiwan)	2073
Synthesis and characterization of YVO ₄ :Eu ³⁺ nanoparticles: kinetics and isotherm studies for the removal of Cd ²⁺ metal ion Mu. Naushad, A.A. Ansari, Z.A. ALOthman (Riyadh, Saudi Arabia) and J. Mittal (Bhopal, India)	2081
Adsorption of phenol onto garlic peel: optimization, kinetics, isotherm, and thermodynamic studies P. Muthamilselvi (Chennai), R. Karthikeyan (Kovilvenni) and B.S.M. Kumar (Chennai, India)	2089
Sonocatalytic degradation of phenol catalyzed by nano-sized zero valent Cu and Ni F.Z. Yehia, Gh. Eshaq, A.M. Rabie, A.H. Mady and A.E. ElMetwally (Cairo, Egypt)	2104

The precipitation of fluoride, calcium and magnesium minerals from Egyptian Mediterranean Sea coast in relation to discharged waters G.F. El-Said, N.A. Shaltout, A.A. Moneer, M.M. El-Sadaawy and A.M.H. Morsy (Alexandria, Egypt)	2113
Removal of fluoride from well water by modified iron oxides in a column system J.J. García-Sánchez, M. Solache-Ríos (Mexico), M.T. Alarcón-Herrera (Chihuahua) and V. Martínez-Miranda (Toluca, Mexico)	2125
Rapid and efficient removal of boron from deep sea water using synthesized polymer resin A. Tiwari, K.M. Choi, S.M. Lee (Gangneung, Korea) and D. Tiwari (Aizawl, India)	2134
Analysis and selection of powdered zeolite dosing point in enhanced coagulation–sedimentation for treating micro ammonia polluted raw water Zhen Liang Liao, Hao Chen, Bai Rong Zhu and Huai Zheng Li (Shanghai, China)	2142
Molecular simulations and critical pH studies for the interactions between 2-phosphonobutane-1,2,4-tricarboxylic acid and calcite surfaces in circular cooling water systems Jiaomei Jiang, Jianping Zhao and Yanhua Xu (Nanjing, China)	2152
Decolorization of ethyl orange azo dye by oxidation process with acidified chloramine-T: spectrophotometric, kinetic and mechanistic approaches A.S. Manjunatha, Puttaswamy (Bangalore, India)	2159
Synergetic degradation of Acid Orange 7 by fly ash under ultrasonic irradiation Guoting Li (Zhengzhou), Weigao Zhao (Tianjin), Binbin Wang (Zhengzhou), Qiyuan Gu (Beijing, China) and Xiwang Zhang (Clayton, Australia)	2167
Metagenomic sequencing of activated sludge filamentous bacteria community using the Ion Torrent platform Congyuan Cao, Inchio Lou, Chen Huang and Ming-Yuen Lee (Macau SAR, China)	2175
Can rapid pressure decrease induced by supercavitation efficiently eradicate <i>Legionella pneumophila</i> bacteria? A. Šarc, M. Oder and M. Dular (Ljubljana, Slovenia)	2184
Effects of KOH activation on surface area, porosity and desalination performance of coconut carbon electrodes B. Khalid, Qinghan Meng, R. Akram and Bing Cao (Beijing, China)	2195
Two-regime kinetic study and parameter optimization of degradation of 3,4-dichloroaniline using TI–N/S catalyst under visible light P. Ellappan and L.R. Miranda (Chennai, India)	2203

Selected papers presented at AdaptToClimate conference 27–28 March 2014, Nicosia, Cyprus

Editorial – AdaptToClimate conference, 27–28 March 2014, Nicosia, Cyprus K. Moustakas and D. Malamis (Athens, Greece)	2217
Review of the current EU framework on adaptation to climate change and assessment of the relative adaptation framework in Cyprus C. Papadaskalopoulou, M. Kasidoni, V. Panaretou, K. Moustakas (Athens, Greece), T. Mesimeris (Nicosia, Cyprus) and M. Loizidou (Athens, Greece)	2219
Water footprint assessment considering climate change effects on future agricultural production in Mediterranean region M.P. Papadopoulou, D. Charchousi, V.K. Tsoukala (Zografou), C. Giannakopoulos and M. Petrakis (Palaia Penteli, Greece)	2232
Vulnerability of water systems: a comprehensive framework for its assessment and identification of adaptation strategies P.-M. Stathatou, E. Kampragou, H. Grigoropoulou, D. Assimacopoulos, C. Karavitis (Athens, Greece), M.F.A. Porto (São Paulo, Brazil), J. Gironás (Santiago, Chile), M. Vanegas (San Pedro Garza Garcia, Mexico) and S. Reyna (Cordoba, Argentina)	2243
Assessment of climate change impact in the hydrological regime of River Pinios Basin, central Greece A. Panagopoulos, G. Arampatzis, E. Tziritis, V. Pisinaras (Sindos, Greece), F. Herrmann, R. Kunkel and F. Wendland (Juelich, Germany)	2256
Monetizing the impacts of climate change on river uses towards effective adaptation strategies D. Andreopoulos (Bolzano, Italy), D. Damigos (Athens, Greece), F. Comiti and C. Fischer (Bolzano, Italy)	2268
Water supply management in Cyprus under climate uncertainty P. Thrasyvoulou, K. Patsalosavvis and A. Zafirakou (Thessaloniki, Greece)	2279
Non-conventional water resources research in semi-arid countries of the Middle East H. Djuma, A. Bruggeman, M. Eliades and M.A. Lange (Aglantza, Cyprus)	2290

An overview on desalination and sustainability: renewable energy-driven desalination and brine management D. Xevgenos, K. Moustakas, D. Malamis and M. Loizidou (Athens, Greece)	2304
On the challenge of developing wastewater treatment processes: capacitive deionization E. García-Quismondo, C. Santos, J. Palma (Mostoles, Spain) and M.A. Anderson (Mostoles, Spain and Madison, WI, USA)	2315
Evaluation of a solar powered distillation unit as a mitigation to water scarcity and climate change in Cyprus M.C. Georgiou, A.M. Bonanos (Nicosia, Cyprus) and J.G. Georgiadis (Nicosia, Cyprus and Urbana, IL, USA)	2325
Adaptation measures for the food and beverage industry to the impact of climate change on water availability K. Valta, K. Moustakas, A. Sotiropoulos, D. Malamis and K.J. Haralambous (Athens, Greece)	2336
Effect of climate change in WWTPs with a focus on MBR infrastructure A.K. Tolkou and A.I. Zouboulis (Thessaloniki, Greece)	2344
Seasonal variation in microbiological and physicochemical characteristics of municipal wastewater in Al-Sharqiya province, Egypt (case study) S. Mahgoub (Zagazig, Egypt), P. Samaras (Sindos, Thessaloniki, Greece), H. Abdelbasit and H. Abdelfattah (Zagazig, Egypt)	2355
Author Index.....	2365