

 **Contents**
Volume 51/19–21

*Selected papers presented at the 2012 Qingdao International Desalination Conference
June 26–29, 2012, Qingdao, China*

Gelling and phase inversion preparation for $\text{Al}_2\text{O}_3/\text{PVDF}$ hybrid membrane H. Dong, K. Xiao, X. Li and S. Guo (Guangzhou, China)	3677
Preparation of PVDF/ Al_2O_3 hybrid membrane via the sol–gel process and characterization of the hybrid membrane H. Dong, K.-j. Xiao, X.-l. Li, Y. Ren and S.-y. Guo (Guangzhou, China)	3685
Effect of anaerobic time on biological nitrogen removal in a modified SBR J. Li (Hangzhou), T. Tao (Wuhan), X.-b. Li (Nantong), L.-m. Wang (Hangzhou) and H. Zheng (Guiyang, China)	3691
Studies on the adsorption behavior of methyl orange from dye wastewater onto activated clay Q. Ma (Taiyuan), F. Shen (Xi'an), X. Lu, W. Bao (Taiyuan) and H. Ma (Xi'an, China)	3700
Design and operation of Jibei water plant in Ji Yang county W. Daoji, Y. Xiaobin, T. Fengxun, T. Zhongyong and L. Congwei (Jinan, China)	3710
Process design of water treatment plant on groundwater with high hardness in Yucheng W. Daoji, T. Zhongyong, W. Lin, T. Fengxun, H. Qingxiang and Y. Xiaobin (Jinan, China)	3715
Separation behavior of NF membrane for dye/salt mixtures L. Ji, Y. Zhang, E. Liu, Y. Zhang and C. Xiao (Tianjin, China)	3721
The research on thermal and economic performance of solar desalination system with evacuated tube collectors X. Liu, W. Chen, S. Shen, M. Gu and G. Cao (Dalian, China)	3728
The research on thermal and economic performance of solar desalination system with salinity-gradient solar pond X. Liu, G. Cao, S. Shen, M. Gu and C. Li (Dalian, China)	3735
Analysis and evaluation of various energy technologies in seawater desalination Y. Liu (Beijing), Y. Guo (Lanzhou) and Q. Wei (Beijing, China)	3743
Biosorption of citric acid–cadmium complex by imprinted chitosan polymer P. Liang, D. Wang, H. Qi, X. Liu and Y. Xu (Qingdao, China)	3754
Preparation of polysulfone ultrafiltration membranes modified by silver particles X. Zhang, B. Shi and X. Liu (Harbin, China)	3762
Enrichment of <i>Citrus reticulata Blanco</i> essential oil from oily wastewater by ultrafiltration membranes B. Li, Z.F. Han, G.P. Cao, J. Shen and L.W. Guo (Nanjing, China)	3768
Effects of amphiphilic additive Pluronic F127 on performance of poly (ether sulfone) ultrafiltration membrane C. Liu, Y. Yun, N. Wu, Y. Hua and C. Li (Beijing, China)	3776
Fabrication and properties of polyvinyl chloride hollow fiber membranes plastified by dioctyl phthalate H. Liu, C. Xiao and X. Hu (Tianjin, China)	3786
Household-based combined process for the emergent treatment of groundwater micropollutants Z.-s. Liu (Harbin), J. Yin, X.-y. Zhang (Changchun) and Y.-h. Pu (Harbin, China)	3794
Preparation of PVDF/ Al_2O_3 hybrid membrane via alkaline modification and chemical coupling process H. Dong, K. Xiao, X. Li, Z. Wang and S. Guo (Guangzhou, China)	3800
Hydrophilic modification of HDPE microfiltration membrane by corona-induced graft polymerization H. Guo, C. Geng, Z. Qin and C. Chen (Beijing, China)	3810
Preparation and properties of PVDF/PPTA blend membranes J. Dong, D. Liu, Y. Zhang and C. Wang (Tianjin, China)	3814
Comparison between MBR and A/O processes treating saline wastewater J. Li, D. Yu and P. Zhang (Qingdao, China)	3821

Solvent extraction of phenol with cumene from wastewater J. Liu, J. Xie, Z. Ren and W. Zhang (Beijing, China)	3826
Optimization of the operating parameters for online ultrasonic on controlling membrane fouling in SMBR D. Li, M. Li, Y. Wang and C. Gong (Beijing, China)	3832
Study of supernatant of SBR in dead-end microfiltration L. Shi (Beijing), Y. Ma (Urumqi), Y. Cui, Z. Wang, W. Dong, J. Chu, Y. Lyu and Y. Song (Beijing, China)	3840
Purification of <i>Ginkgo biloba</i> flavonoids by UF membrane technology M. Zhu, Y. Yun and W. Xiang (Beijing, China)	3847
Preparation of PVDF/PVC composite membrane for wastewater purification Q. Zhang, S. Zhang, Y. Zhang, X. Hu and Y. Chen (Tianjin, China)	3854
Study on pretreatment of seawater electrolysis for desalination Q. Zhang, S. Yi, S. Wang, R. Shi, X. Li and H. Ma (Tianjin, China)	3858
Theoretical and experimental study of Au(III)-containing wastewater treatment using magnetotactic bacteria S. Huiping (Taiyuan), L. Xingang (Tianjin), C. Huagang and C. Fangqin (Taiyuan, China).....	3864
Preparation of high performance nanofiltration membrane by different dihydric alcohol in aqueous phase L. Wen and W. Wang (Tianjin, China)	3871
Impact of operating conditions on the flux changing rate during dead-end microfiltration process W. Dong (Beijing), X. Wang (Urumqi), X. Ye, Z. Wang and X. Zhang (Beijing, China)	3878
Adsorption of tartaric acid-cadmium complex by imprinted chitosan biopolymer X. Lan, P. Liang (Qingdao) and Y. Yang (Jinan, China)	3883
TiO ₂ -Au composite for efficient UV photocatalytic reduction of Cr(VI) X. Liu, T. Lv, Y. Liu, L. Pan and Z. Sun (Shanghai, China)	3889
Evaluation of ultrafiltration membranes with the multimedia filter/ultrafiltration/reverse osmosis/ NH ₃ -N remover system to treat surface water Y. Yun, C. Liu, Z. Zhang, J. Ji (Beijing) and Q. Wang (Xi'an, China).....	3896
Effects of pore-forming additives on structures and properties of PVDF/Fe ³⁺ /Cu ²⁺ hollow fiber membranes Y. Zhang, R. Lin, M. Yuan and X. Yue (Jilin, China)	3903
Preparation and properties of Fe ³⁺ /PVDF-PMMA catalytic membrane Y. Zhang, M. Yuan, R. Lin and X. Yue (Jilin, China)	3909
Preparation and adsorption performance of molecularly imprinted polymers for Kaempferol Z. Zhang, Y. Yun and C. Li (Beijing, China)	3914
Analyses of molecular weight distribution of organic matters with pre-oxidation and PAC-UF pretreatment before seawater reverse osmosis D. An, M. Chen and Y. Shen (Shanghai, China)	3920
Study on vacuum membrane distillation of PP hollow fiber membranes used in concentrated seawater from low-pressure reverse osmosis F. Shao, L. Ni, Y. Zhang, Y. Chen, Z. Liu and Z. Cao (Tianjin, China)	3925
Iodide adsorption from aqueous solutions by bis(trimethoxysilylpropyl)amine polycondensate/silver chloride composites H. Zhang, Y. Hu, X. Ye, H. Liu, Q. Li, M. Guo and Z. Wu (Xining, China)	3930
Effect of on-line ultrasound on the properties of activated sludge mixed liquor and the controlling of membrane fouling in SMBR M. Li, Y. Wang and C. Gong (Beijing, China)	3938
Preparation and characterization of poly(tetrafluoroethylene-cohexafluoropropylene) (FEP) hollow fiber membranes for desalination Q.-L. Huang, C. Xiao, Z.-Q. Miao (Tianjin), X. Feng (Ontario, Canada) and X.-Y. Hu (Tianjin, China)	3948
Competitive adsorption of Li, K, Rb, and Cs ions onto three ion-exchange resins T. Guo, S. Wang, X. Ye, H. Liu, X. Gao, Q. Li, M. Guo and Z. Wu (Xining, China)	3954
Study on preparation and performance characteristics of polyvinyl chloride-co-vinyl acetate-modified membranes on the nonwoven fabrics W. Li, J. Zhang, Y. Xiao, Z. Wang, L. Shi, W. Yang, L. Cheng and N. Chen (Beijing, China).	3960

Prediction of impacts of fabrication conditions on the filtration performance of homemade VC-co-VAc-OH microfiltration membrane by Support Vector Machine (SVM) X. Xi, Z. Wang, J. Zhang, Y. Zhou, N. Chen, L. Shi, D. Wenyue, L. Cheng and W. Yang (Beijing, China)	3970
Preparation and properties of polysulfone/polyacrylonitrile blend membrane and its modification with hydrolysis X. Zhang, C. Xiao and X. Hu (Tianjin, China)	3979
Carbon nanotube and carbon nanofiber composite films grown on different graphite substrate for capacitive deionization Y. Liu, H. Li, C. Nie, L. Pan and Z. Sun (Shanghai, China)	3988
<i>Selected papers presented at the Nonpoint Source (NPS) Workshops at the Third International Conference on Rainwater Harvesting & Management, Goseong, Korea, 20–24 May 2012 and the Korea-China World Expo Exhibition Plan, Beijing Normal University, Beijing, China, 4–7 July 2012</i>	
Uncertainty in flow and water quality measurement data:	
A case study in the Daning River watershed in the Three Gorges Reservoir region, China Z. Shen, Q. Huang, Q. Liao, L. Chen, R. Liu and H. Xie (Beijing, China)	3995
Determination of the number of storm events representing the pollutant mean concentration in urban runoff M.C. Maniquiz-Redillas, J.M.R. Mercado and L.-H. Kim (Cheonan, Korea)	4002
Quantitative assessment and source apportionment of metal pollution in soil along Chao River Y. Li, H. Gao, L. Mo, Y. Kong (Beijing) and I. Lou (Macau SAR, China)	4010
Optimal resource utilization and ecological restoration of aquatic zones in the coal mining subsidence areas of the Huabei Plain in Anhui Province, China K. Xie, Y. Zhang (Xuzhou), Q. Yi and J. Yan (Huainan, China)	4019
Post-treatment schemes of the outflow from hydrocyclone treating paved-road stormwater runoff J. Yu (Nanjing, China), H. Yu (Guangzhou, China), Y. Chen, J. Cheng and Y. Kim (Seosan, Korea)	4028
Adaptability of wastewater wetland models in estimating nutrient removal in a stormwater wetland on dry days H.B. Guerra, K. Park, S. Niu and Y. Kim (Seosan, Korea)	4035
Treatment of parking lot runoff by a tree box filter F.K.F. Geronimo, M.C. Maniquiz-Redillas and L.-H. Kim (Cheonan, Korea)	4044
Removal of phosphite and sulfate from electroless nickel–phosphorus plating bath with hydrotalcite for the management of watershed Y. Kamimoto, R. Ichino (Nagoya, Japan), Y. Kiso (Aichi, Japan), T. Hosotani (Tokyo, Japan), K.-H. Kwon, K.-S. Min (Daegu, Korea) and Y.-J. Jung (Busan, Korea)	4050
Waste sludge reduction with a pilot-scale membrane bioreactor for point source pollution management Y. Kamimoto, T. Ozaki, K. Makino (Aichi, Japan), S. Ohchi (Kyoto, Japan), R. Ichino, Y. Kiso (Aichi, Japan), K.-H. Kwon, K.-S. Min (Daegu, Korea), J.-H. Choi and Y.-J. Jung (Busan, Korea)	4056
Application of coagulation process for the treatment of combined sewer overflows (CSOs) J.C. Jeon, K.H. Kwon (Daegu), L.H. Kim (Chungnamdo), J.H. Kim (Gwangju), Y.J. Jung (Busan) and K.S. Min (Daegu, Korea)	4063
Advanced total phosphorus removal approach: system design and combined sewer overflows (CSOs) sludge application H. Guo, S. Oh (Gwangju, Korea), S.M. Cha (Manoa, USA), S.W. Lee, A. Alaud-din, S. Wang and J.H. Kim (Gwangju, Korea)	4072
Performance comparison of two hybrid stormwater treatment systems having different filter media configuration F.K.F. Geronimo, M.C. Maniquiz-Redillas and L.-H. Kim (Chungnamdo, Korea)	4081
Monitoring of land use change impact on stormwater runoff and pollutant loading estimation in Yongin watershed Korea S. Memon, M.C. Paule, S.-J. Park, B.-Y. Lee, S. Kang, R. Umer and C.-H. Lee (Yongin, Korea)	4088
Evaluation of the different filter media in vertical flow stormwater wetland Y. Chen, J. Cheng, S. Niu and Y. Kim (Chungnam, Korea)	4097

Analysis of the characteristics of non-point pollutant runoff applied LID techniques in industrial area T.S. Shon, M.E. Kim, J.S. Joo, D.J. Jo and H.S. Shin (Busan, Korea).....	4107
Forecasting algal bloom (chl-a) on the basis of coupled wavelet transform and artificial neural networks at a large lake M.E. Kim, T.S. Shon and H.S. Shin (Busan, Korea)	4118
Application of a gravel wetland system for treatment of parking lot runoff J. Choi, M.C. Maniquiz-Redillas, S. Lee, J.M.R. Mercado and L.-H. Kim (Chungnam-do, Korea).....	4129
Characterizing particle size distribution of nonpoint source pollutants in an agricultural area S.M. Cha (Honolulu, USA), S.W. Lee, Y. Park and J.H. Kim (Gwangju, Korea)	4138
Characteristics of heavy metals in soil in infiltration splash blocks and rain gardens for management of roof runoff from apartment buildings K.-h. Hyun and J.-m. Lee (Daejeon-Si, Korea).....	4146

***Selected papers presented at the Sixth Dubrovnik Conference on Sustainable Development of Energy,
Water and Environment Systems (SDEWES 2011), 25–29 September 2011, Dubrovnik, Croatia***

Editorial

T. Kupusovic and I. Silajdzic (Sarajevo, Bosnia and Herzegovina)	4155
Retention of mycoestrogens with industrial nanofiltration modules M. Dudziak (Gliwice, Poland)	4157
Ecotoxicological evaluation of wastewater in a municipal WWTP in Lisbon area (Portugal) E. Mendonc (Amadora), A. Picado, S.M. Paixa, L. Silva, M. Barbosa (Lisboa), and M.A. Cunha (Amadora, Portugal).....	4162
Implementation of the European Union's Nitrates Directive in Turkey U. Yetis, H. Yukseler (Ankara, Turkey), S. Valatka (Vilnius, Lithuania), S. Girgin (Ankara, Turkey), D. Semeniene (Vilnius, Lithuania), M. Kerestecioglu (Kongens Lyngby, Denmark) and M. Jacobsen (Sofia, Bulgaria)	4171
Analysis on energy–water nexus by Sankey diagram: the case of Beijing G. Hu, X. Ou, Q. Zhang (Beijing, China) and V.J. Karplus (Cambridge, MA, USA)	4183
Waterpraxis as a tool supporting protection of water in the Sulejow Reservoir A. Ziemińska-Stolarska, I. Zbicinski, M. Imbierowicz and J. Skrzypski (Łódź, Poland)	4194
Exergy as a guide to allocate environmental costs for implementing the Water Framework Directive in the Ebro River J. Uche, A. Martínez and B. Carrasquer (Zaragoza, Spain)	4207
Ecological footprint as a tool for integrated coastal zone management S. Kessopoulou and D. Papatheochari (Volos, Greece).....	4218
Model-based evaluations of operating parameters on CANON process in a membrane-aerated biofilm reactor L. Vafajoo and M. Pazoki (Tehran, Iran)	4228
Dew, fog and rain water collectors in a village of S-Morocco (Idouasskssou) O. Clus (Clapiers), I. Lekouch, M. Muselli, I. Milimouk-Melnytchouk and D. Beysens (Paris, France).....	4235
Transboundary water resources management: A multidisciplinary approach T. Kupusovic (Sarajevo, Bosnia and Herzegovina)	4239
Author Index.....	4241