



Contents Volume 312

Influence of in-situ NaClO backwashing on the biological performance and membrane fouling behavior in a granule-based SNAD-MBR process Zhaozhao Wang, Dameng Lian, Haoshu Zhu, Lina Yan, Simin Li (China)	1
Analysis and evaluation of circulated water gap membrane distillation process for water desalination S.M. Alawad, A.E. Khalifa, D. Lawal, A.H. Al Hariri, M. Antar, W. Falath (Saudi Arabia)	14
Green synthesis of iron-ore flat sheet membrane and physicochemical characterization R. Chihi (Tunisia), P. Ugarte, M. Menendez (Spain), L. Mansour (Saudi Arabia), F. Ayari (Tunisia)	28
Effect of the SBA-15 N-functionalization on the adsorption of organic contaminants A. Derylo-Marczewska, M. Zienkiewicz-Strzalka, K. Kusmierek, K. Skrzypczynska, A. Swiatkowski (Poland)	39
Treatment of laundry wastewater by constructed wetlands with <i>Eichhornia crassipes</i> L.A. Hernández Vásquez, F. Prieto García, A. Alvarado Lassman, C. Romo Gómez, E. Aquino Torres, G. Hernández Salinas, E.J. Ramírez Rivera, O.A. Acevedo Sandoval, S. Reyes Rosas (Mexico)	50
Analysis of the impact of ultrasonic disintegration on changes in the physico-chemical and biological properties of municipal wastewater E. Hawrylik, E. Szatyłowicz (Poland)	55
Microplastics in bottled water and bottled soft drinks W. Nocoń, K. Moraczewska-Majkut, E. Wiśniowska (Poland)	64
Removal of toxic heavy metal ion from tannery effluent by using <i>Fusarium subglutinans</i> and <i>Hylocere usundatus</i> A. Latha, R. Ganesan, G. Venkatesan, P. Baraneedharan (India)	70
Improvement of photocatalysis using ZnO/zeolite nanocomposites for contaminant removal in aqueous media F. Servín de Dios, E. Ramírez Morales, M.C. Arellano Cortaza, G. Pérez Hernández, E.V. Miranda Mandujano, E.M. López Alejandro, L. Rojas Blanco (Mexico)	79
Optimization of a lithium assay method in oil fields brines by using experimental design methodology and its validation by the accuracy profile approach K. Djebali (Tunisia), A. Somrani (Saudi Arabia), N. Dabbech, M. Borni, G. Hamdaoui (Tunisia), R. Zarrougui (Canada), A.H. Hamzaoui (Tunisia)	89
Equilibrium and kinetic studies on adsorption of hexavalent chromium from aqueous solutions using solid-state iron exchange bentonite N. Abnous, M. Ghorbanpour, K. Shayesteh (Iran)	100
Application of binary statistical model for the environmental risk assessment of metal contamination through aquatic organisms S. Ferroudj, S. Boucetta, Z. Doukha, S. Kharfouchi, M.K. Aouati, W. Benchalel (Algeria)	108
Removal of amoxicillin and lead from aqueous solutions using immobilized nanoparticles: green synthesis, characterization, and kinetic study H.S. Hadi, Z.T. Abd Ali (Iraq)	119
Selective antimonite removal from water by montmorillonite-immobilized nanoscale zero-valent iron Jinfeng Jiang, Shaokui Zheng, Bingyu Li, Xuan Fan, Hanjun Zhu, Ming Lei (China)	132
Adsorptive removal of boron from aqueous solutions using peels of jering seeds (<i>Archidendron pauciflorum</i>): isotherm, kinetic and thermodynamic studies F. Al-Badaii, R.A. Hassan (Malaysia, Yemen), N.A. Abdul Jalil, A. Abdul Halim (Malaysia)	139
Exceptional adsorption properties of amino-carboxylic acid chelating fibers for calcium, magnesium, and strontium ions Da-Xin Liu, Gang Xu, Zhao-Wen Chen, Li Wang, Ming-Hong Wu (China)	158

Enhanced adsorption of sulfonated lignite with hierarchical porous-structure of MgAl-layered double hydroxide Bingbing Bai, Chenye Yang, Chen Huang, Tao Yu, Gang Chen, Ying Tang (China)	166
Study on the process and mechanism of chloride ion adsorption by ultra-high lime aluminum method Pengyu Zhang, Limin Sun, Wenyang Li, Haomeng Guo, Ruian Gao, Yong Guan, Liming Feng (China)	177
Synthesis and characterization of a novel hybrid film based on polyvinyl chloride/modified clays/photosensitizers. Application to pollutants photodegradation Z. Zeffouni, B. Cheknane, F. Zermane, S. Hanini, L. Aoudjit, S. Igoud (Algeria)	187
Simultaneous degradation of some pharmaceuticals by anodic oxidation in different supporting electrolytes S. Ghasemi, F. Nabizadeh Chianeh (Iran)	198
DBD plasma reactor for the treatment of crystalline violet simulated dye wastewater Hai-xia Li, Ying Wu, Qing-qing He, Ling Li, Jingjing Xie, Chiyuan Wei, Qianhong Gao (China)	207
Screening of various hybrid composite materials for removal of extremely toxic acid yellow dye from wastewater R. Shaheen, M.A. Hanif, S. Ali, R.W.K. Qadri (Pakistan)	218
Optimization of operational parameters in photocatalytic degradation of methylene blue using zeolitic imidazolate framework-11 nanostructure F. Houshyar, M. Mehdipour Ghazi, N. Keramati (Iran)	234
Adsorption kinetic, equilibrium and thermodynamics studies for the removal of acid blue 25 from wastewater by using modified sugarcane bagasse H. Sarwar (Pakistan), N. Elboughdiri (Saudi Arabia, Tunisia), S. Zafar (Pakistan), M.I. Khan, A. Shanableh (UAE), J. Suleman, S. Manzoor (Pakistan), A. Mahjoubi, S. Barkaoui, A. Midouni (Tunisia)	247
Author Index	258