

INDEX OF VOLUME 21

SUBJECT INDEX

AIR POLLUTION

- Photocatalytic degradation and mineralization of gaseous isopropanol over silver vanadates 1 45-51

WATER AND WASTEWATER

Biological Processes

- Application of biofloculant and nonwoven supporting media for better biological nutrient removal and fouling control in a submerged MBR 1 53-58
- Comparison of assimilable organic carbon removal and bacterial community structures in biological activated carbon process for advanced drinking water treatment plants 1 59-64
- Treatment of engine oil effluent by electrooxidation and aerobic biological degradation 2 109-116
- Repeated batch operation of internal loop airlift bioreactor in degrading phenolics as single and mixed substrate by using predominantly *Pseudomonas* sp. 2 135-140
- Use of two-stage biological process in treating thin film transistor liquid crystal display wastewater of tetramethylammonium hydroxide 3 155-160
- Pollutants removal performance of runoff ecological vegetation 3 161-166
- Bacillus subtilis* spore inactivation in water using photo-assisted Fenton reaction 5 285-290
- Comparative analysis between the biological and electrochemical methods for removal of 4-nitrophenol from aqueous media 5 321-328
- Biosorption of lead and cadmium ions by non-living aquatic macrophyte, *Utricularia aurea* 6 369-374

Physical and Chemical Processes

- Decentralized domestic gray water treatment by using slanted soil chamber system 2 81-87
- Kinetic studies on adsorption of odor-causing substances by activated carbon 2 95-100
- Factors affecting degradation of *o*-Toluidine by Fenton process 2 101-107
- Treatment of engine oil effluent by electrooxidation and aerobic biological degradation 2 109-116
- Enhancing treatment efficiency of wastewater containing aniline by electro-Fenton process 3 141-147
- Photocatalysis of trimethoprim (TRI) in water 3 149-154
- Effect of frequency on the sonolytic degradation

- of carbon tetrachloride 3 167-172
- Tertiary treatment of pharmaceuticals and personal care products by pretreatment and membrane processes 3 173-180
- Electrochemical decolorization process of textile dye in the presence of NaCl at boron doped diamond electrode 5 291-298
- Photocatalytic degradation of phenol and 4-chlorophenol with titania, oxygen and ozone 5 299-305
- Photocatalytic degradation of phenolic compounds contained in the effluent of a dye manufacturing industry 5 307-312
- Physicochemical treatment (coagulation-flocculation-Fenton) of mature leachates from Tuxtla Gutierrez, Chiapas landfill 5 313-319
- Comparative analysis between the biological and electrochemical methods for removal of 4-nitrophenol from aqueous media 5 321-328
- Electrochemical treatment for removing petroleum polycyclic aromatic hydrocarbons (PAHs) from synthetic produced water using a DSA-type anode: Preliminary results 5 329-335
- Azo dyes degradation by electrogenerated ferrate ion using BDD electrodes 5 337-340
- Treatment of lead frame nickel-plating wastewater with newly designed electrodeposition reactor 6 341-345
- Evaluation of disinfection efficiency between sodium hypochlorite and chlorine dioxide on spa water 6 347-351
- Nitrate removal by synthetic nanoscale zero-valent iron in aqueous recirculated reactor 6 353-359
- Nickel removal from aqueous solution in fixed bed using chitosan-coated bentonite 6 361-367
- Factors affecting the photocatalytic oxidation of 2,4-dichlorophenol using modified titanium dioxide $\text{TiO}_2/\text{KAl}(\text{SO}_4)_2$ catalyst under visible light 6 381-387
- Treatment of real wastewater using semi batch (Photo)-Electro-Fenton method 6 389-393
- Study on oxidation kinetics of dissolved 2-methylisoborneol 6 395-400
- Removal of pesticides from wastewater by electrochemical methods—A comparative approach 6 401-406

SOIL AND GROUNDWATER POLLUTION

- Removal of anthracene contaminated soil using micro-emulsified solvent and mixed surfactant 3 181-186
- Effects of soil water characteristic curves on

simulation of nitrate vertical transport in a Thai agricultural soil 3 187-193

RESOURCES AND ENERGY RECOVERY AND REUTILIZATION

Kinetics of hydrogen production from condensed molasses fermentation solubles using sewage sludge in a continuous stirred tank reactor 2 117-121

Characterization and vitrification of fly ashes from incineration of waste of infectious risk cares (WIRC) 3 195-201

A review of TDR applications for in situ monitoring of bioreactor landfills 4 211-218

Investigation of polycyclic aromatic hydrocarbons (PAHs) content in bottom ashes from some Japanese waste incinerators and simple estimation of their fate in landfill 4 219-227

Influence of air injection on the stabilization of landfill adopting the aerobic-anaerobic method 4 229-237

The potential of nitrogen assimilation in aerated municipal solid waste landfills 4 239-245

Recovery of copper from a wastewater for preparation of Cu@C nanoparticles 4 279-282

Sonoleaching: Development of a rapid determination of Pb from stabilized waste using ultrasound assisted leaching 6 375-380

ENVIRONMENTAL PLANNING AND MANAGEMENT

Development of carbon dioxide capture and storage technology — Taiwan Power Company

perspective 1 1-8

Perspective on clean carbon as sustainable energy in Taiwan 1 9-20

Carbon capture and sequestration technology development in ITRI 1 21-28

PCDD/F emissions from gasoline and diesel fueled vehicles 1 29-36

Aging-induced changes in properties of motor-cycle catalytic converters 1 37-43

Optimization of Tunisian wastewater treatment plant - The Kelibia case 1 65-72

Establishing an assessment system for constructed wetlands 1 73-79

Deposition and formation of THMs in water supply system 2 89-94

Strategy for effective hauling service to optimize the development of biomass energy in a smallholder livestock area 2 123-133

Environmental synergies of Kaohsiung ESTP in Taiwan 3 203-208

Monitoring and assessment of landfill stability using simultaneous thermal analysis 4 247-252

Monitoring moisture movement within municipal solid waste in enhanced leachate recirculation landfill using resistivity imaging 4 253-258

Exploring the use of micro-focus computed tomography for a better conceptual understanding of structure in landfilled waste in the context of post-closure management for landfills 4 259-268

Landfill improvements in economically developing countries 4 269-277

AUTHOR INDEX

- Abielaala, Loubna **3**, 195-201
 Anotai, Jin **2**, 101-107; **3**, 141-147
 Aouad, Hakima **3**, 195-201
 Babu, Balakrishnan Ramesh **2**, 109-116; **6**, 401-406
 Bandala, Erick R. **5**, 285-290, 321-328, 337-340
 Basiouny, Mohamed E. **2**, 89-94
 Bello Mendoza, Ricardo **5**, 313-319
 Bellotindos, Luzvisminda M. **6**, 375-380
 Bezerra Rocha, Jéssica H. **5**, 291-298
 Böhm, Katharina **4**, 247-252
 Caicedo, Diana Milena **4**, 259-268
 Chai, Xiaoli **4**, 229-237
 Chang, Chia-Yuan **3**, 149-154
 Chang, Ching-Yuan **1**, 45-51
 Chang, Fang-Chih **4**, 279-282
 Chang, Hui-Ting **1**, 73-79
 Chang, Jing-Song **3**, 149-154
 Chang, Jo-Shu **2**, 117-121
 Chang-Chien, Guo-Ping **1**, 29-36
 Chao, Yu-Chieh **3**, 155-160
 Chen, Bo-Kuang **3**, 155-160
 Chen, Chien-Wei **2**, 101-107
 Chen, Chin-Chao **2**, 117-121
 Chen, Chuh-Shun **6**, 341-345
 Chen, Jeng-Chung **2**, 123-133
 Chen, Jih-Sheng **2**, 95-100
 Chen, Jiing-Lin **1**, 1-8
 Chen, Sheng **1**, 1-8
 Chen, Shui-Jen **1**, 29-36
 Chen, Yan-Liang **2**, 123-133
 Chen, Yen-Chuan **3**, 203-208
 Chen, Yi-Chi **1**, 37-43
 Cheng, Sheng-Shung **3**, 155-160
 Chi, Fung-Hwa **3**, 181-186
 Chiao, Chung-Hui **1**, 1-8
 Chiu, Chi-Ming **3**, 203-208
 Chiu, Yu-Min **4**, 279-282
 Chotpantarat, Srilert **3**, 187-193
 Chuang, Shiunn-Cheng **1**, 29-36
 Chyou, Yau-Pin **1**, 9-20
 Cruz, Raquel **5**, 307-312
 da Silva, Djalma Ribeiro **5**, 291-298, 329-335
 Dalida, Maria Lourdes P. **6**, 361-367, 375-380
 Dugger, David **4**, 253-258
 Ebie, Yoshitaka **2**, 81-87
 Elsheikh, Mahmoud A-Elshafy **2**, 89-94
 Fellner, Johann **4**, 209, 239-245
 Furumai, Hiroaki **1**, 59-64
 Futralan, Cybelle Morales **6**, 361-367
 García-Alamilla, Ricardo **5**, 299-305
 Guo, Wenshan **1**, 53-58
 Gutiérrez Hernandez, Rubén Fernando **5**, 313-319
 Guzmán-Mar, Jorge L. **5**, 307-312, 337-340
 Hayet, Cherif **1**, 65-72
 Hédi, Shayeb **1**, 65-72
 Hernández-Ramírez, Aracely **5**, 283, 307-312, 337-340
 Hinojosa Reyes, Laura **5**, 307-312
 Ho, Dang **3**, 149-154
 Hossain, MD. Sahadat **4**, 253-258
 Hsia, Hui-Ping **3**, 155-160
 Hsien, Kuo-Jung **6**, 361-367
 Hsu, Ching-Shan **6**, 347-351
 Hsu, Heng-Wen **1**, 1-8, 21-28
 Hsu, Jia-Chin **6**, 353-359
 Hu, Alvin Yen-Jung **1**, 53-58
 Hu, Robert Yie-Zu **1**, 21-28
 Huang, Chao-Ming **1**, 45-51
 Huang, Chien-Hua **4**, 279-282
 Huang, Kuo-Lin **1**, 29-36
 Huang, Lin-Shiang **1**, 45-51
 Huang, Ting-Lin **3**, 161-166
 Huang, Wei-Ze **6**, 347-351
 Huang, Winn-Jung **2**, 95-100
 Huang, Yao-Hui **6**, 341-345, 389-393
 Huang, Yu-Jen **6**, 341-345, 389-393
 Im, Jong-Kwon **3**, 167-172
 Inamori, Yuhei **2**, 81-87
 Jeng, Fu-Tien **1**, 37-43
 Jiao, Gangzhen **4**, 229-237
 Kaewsarn, Pairat **6**, 369-374
 Kan, Chi-Chuan **6**, 361-367
 Kandasamy, Jaya **3**, 149-154
 Kang, Hsu-Ya **4**, 279-282
 Kasuga, Ikuro **1**, 59-64
 Kemler, Vance **4**, 253-258
 Khim, Jeehyeong **3**, 167-172
 Kiji, Masato **2**, 81-87
 Kim, Seong-Keun **3**, 167-172
 Komiyama, Teppei **4**, 229-237
 Kondo, Takashi **2**, 81-87
 Kurisu, Futoshi **1**, 59-64
 Lai, Ying-Ying **3**, 203-208
 Lan, Chi-Ren **1**, 1-8
 Laner, David **4**, 239-245
 Lay, Chyi-How **2**, 117-121
 Lee, Kun-Hsien **1**, 37-43
 Leu, Min-Her **3**, 181-186
 Li, Loretta Y. **4**, 211-218
 Li, Raymond S. **4**, 211-218
 Li, Wu-Jeng **6**, 395-400
 Li, Yi-Hua **3**, 203-208
 Li, Yi-Shan **1**, 45-51
 Liao, Chi-Wen **1**, 21-28
 Liao, Chih-Hsiang **6**, 353-359
 Limpakanwech, Chutinun **3**, 187-193
 Lin, Angela Yu-Chen **3**, 173-180
 Lin, Cheng-Fang **3**, 173-180
 Lin, Han-Lin **3**, 155-160
 Lin, Tzu-Ping **2**, 95-100
 Listowski, Andrzej **1**, 53-58
 Liu, Guixiang **4**, 229-237
 Liu, I-Hung **1**, 45-51
 Liu, Tzu-Yar **3**, 203-208
 Lu, Ming-Chun **2**, 101-107; **3**, 141-147; **6**, 375-380, 381-387
 Manandhar, Dinesh Raj **4**, 269-277
 Manzur, Shahed Rezwana **4**, 253-258
 Martínez-Huitle, Carlos A. **5**, 291-298, 321-328, 329-335
 Masomboon, Nalinrut **2**, 101-107
 Matsuo, Takayuki **4**, 219-227
 Matsuto, Toshihiko **4**, 219-227

- Méndez-Rojas, Miguel A. **5**, 285-290
Mendoza, Herman D. **6**, 375-380, 381-387
Mesnaoui, Mohamed **3**, 195-201
Moctezuma, Edgar **5**, 299-305
Moktar, Hamdi **1**, 65-72
Murugan, Natarajan Vadivel **2**, 109-116
Musso, Jean A. **3**, 195-201
Nájera Aguilar, Hugo Alejandro **5**, 313-319
Nakayama, Hirofumi **4**, 229-237
Ng, Kok-Kwang **3**, 173-180
Ngo, Huu-Hao **1**, 53-58; **3**, 149-154
Nie, Xiao-Bao **3**, 161-166
Ning, Shu-Kuang **2**, 123-133
Öman, Cecilia B. **4**, 269-277
Ouyang, Shoung **1**, 21-28
Pakshirajan, Kannan **2**, 135-140
Pascua, Chelo **6**, 361-367
Penmethsa, Kiran Kumar **4**, 253-258
Peralta, Genandrialine L. **6**, 375-380
Peralta-Hernández, Juan Manuel **5**, 283, 307-312, 321-328, 337-340
Pérez, Roberto **5**, 285-290
Powrie, William **4**, 259-268
Priambodo, Ricky **6**, 389-393
Quiroz, Marco A. **5**, 285-290, 291-298, 321-328, 337-340
Reanprayoon, Pradub **6**, 369-374
Regina Souza, Kátia **5**, 291-298
Reyna, Silvia **5**, 321-328
Richards, David **4**, 259-268
Rojas Valencia, Maria Neftalí **5**, 313-319
Rollon, Analiza P. **6**, 381-387
Saha, Prabirkumar **2**, 135-140
Sairiam, Sermpong **3**, 141-147
Sanchez-Salas, Jose Luis **5**, 285-290, 321-328
Saravanan, Karuppiyah Raravanan **2**, 109-116
Saravanan, Pichiah **2**, 135-140
Sasi, Savarimuthu **2**, 109-116
Sato, Masahiro **4**, 219-227
Seeni Meera, Kamal Mohamed **6**, 401-406
Sen, Biswarup **2**, 117-121
Shih, Yu-Jen **6**, 389-393
Shimaoka, Takayuki **4**, 229-237
Shiu, Guei-Chin **3**, 181-186
Shon, Ho-Kyong **3**, 149-154
Siripattanakul, Sumana **3**, 187-193
Siriwong, Wattasit **3**, 187-193
Smidt, Ena **4**, 247-252
Son, Hyun-Seok **3**, 167-172
Soonglersongpha, Suwat **1**, 59-64
Souza Duarte, Juliana Patricia **5**, 329-335
Suely Fernandes, Nedja **5**, 291-298
Sugiura, Norio **2**, 81-87
Sutthirat, Chakkaphan **3**, 187-193
Tintner, Johannes **4**, 247-252
Tojo, Yasumasa **4**, 219-227
Tolosa, Nolan C. **6**, 381-387
Tong, Lun-Tao **1**, 21-28
Tsai, Jen-Hsiung **1**, 29-36
Tsao, Chun-Wen **3**, 181-186
Tung, Shu-Chu **6**, 395-400
Vázquez Sánchez, Rubén Alejandro **5**, 313-319
Velez Lee, Angel Eduardo **5**, 285-290
Venkatesan, Perumal **6**, 401-406
Vigneswaran, Saravanamuthu **3**, 149-154
Villanueva-Rodríguez, Minerva **5**, 337-340
Wan, Meng-Wei **6**, 361-367
Wang, Bao-Shan **3**, 161-166
Wang, H. Paul **4**, 279-282
Wang, Hsin-Yi **6**, 347-351
Wang, Lin-Chi **1**, 29-36
Watson, Geoff **4**, 259-268
Wei, Yu-Lun **6**, 353-359
Wu, Jou-Hsien **2**, 117-121
Wu, Tien-Chi **3**, 203-208
Wu, Zhenqi **1**, 53-58
Xu, Jing **3**, 161-166
Xu, Kaiqin **2**, 81-87
Yang, Gen-Hao **3**, 155-160
Yang, Lei **1**, 73-79
Yang, Ya-Fei **3**, 155-160
Yeh, Shin-Cheng **1**, 73-79
Yen, Jui-Hsi **3**, 203-208
Yoonaiwong, Wattanachai **6**, 369-374
Youssef, Touhami **1**, 65-72
Yu, Tsung-Hsien **3**, 173-180
Zermeño, Brenda B. **5**, 299-305
Zhao, Youcai **4**, 229-237
Zoh, Kyung-Duk **3**, 167-172