

Poster Program

Poster Session 1

12:20-13:40, 11th September 2017

[P01]	Water demand management in poverty alleviation "Analytical study for the aquatic reality and poverty indicators in Jordan" R. Qutieshat, <i>Balqa Applied University, Jordan</i>
[P02]	Benthic epilithic diatom community structures and their relationship to water chemistry of Swartspruit River, South Africa E.C. Nnabuo-Eguzoie ¹ , H.I. Atagana* ¹ , R.A. Adeleke ¹ , ¹ <i>University of South Africa, South Africa</i> , ² <i>Agricultural Research Council, South Africa</i>
[P03]	Withdrawn
[P04]	Novel forward osmosis water desalination based on direct absorptive nanoparticles M. Amjad* ^{1,2} , G. Raza ¹ , S. Pervaiz ¹ , D. Wen ¹ , ¹ <i>University of Leeds, UK</i> , ² <i>University of Engineering & Technology Lahore, Pakistan</i>
[P05]	Withdrawn
[P06]	Elimination of pathogenic, antibiotic resistant bacteria by advanced wastewater treatment technologies S. Hess, C. Gallert*, <i>University of Applied Science Emden Leer, Germany</i>
[P07]	Resource conservation and welfare impact of implementing agroforestry technologies in Ethiopian highlands K. Gunte*, M. Abebe, M. Ali, <i>Ethiopian Environment and Forest Research Institute, Ethiopia</i>
[P08]	Influence of hydrodynamic induced cavitation on water pollutants A. Schmid, <i>University of Applied Sciences Hof, Germany</i>
[P09]	Kinetics of petroleum oil biodegradation by a consortium of three protozoan isolates (<i>Aspidisca</i> sp., <i>Trachelophyllum</i> sp. and <i>Peranema</i> sp.) L.O. Kachienga*, M.N.B. Momba, <i>Tshwane University of Technology, South Africa</i>
[P10]	The state of Sachets: Ghana's private sector solution to a public infrastructure problem R. Little, <i>Pitzer College, USA</i>
[P11]	Magnetic coagulation and simultaneous nitrification and denitrification integrated system in treatment sewage J.W. Hu*, Y. Yu, Y.R. Zhang, Y.J. Li, <i>Lanzhou University of Technology, China</i>
[P12]	Preliminary results showing the effect of microplastics on the survival of the amphipod <i>G. lognorum</i> following a 10 day exposure R.P. Mofokeng*, D. Glassom, <i>University of KwaZulu-Natal, South Africa</i>
[P13]	Detection, formation, and occurrence of 13 new polar phenolic chlorinated and brominated disinfection byproducts in drinking water Y. Pan* ¹ , Y. Wang ¹ , A. Li ¹ , B. Xu ² , Q. Xiang ¹ , C. Shuang ¹ , P. Shi ¹ , Q. Zhou ¹ , ¹ <i>Nanjing University, China</i> , ² <i>Tongji University, China</i>
[P14]	Geoelectrical modeling of aquifer systems for groundwater resources management in hardrock multifaceted geologic terrain, Southwestern, Nigeria K.A. Mogaji, <i>Federal University of Technology Akure, Nigeria</i>
[P15]	safe drinking water, public management of water, access inequalities, Djibouti City A. "Abdillahi"* ¹ , S. "Ferrari"* ² , ¹ <i>Universite de Djibouti, Djibouti</i> , ² <i>Université de Bordeaux, France</i>
[P16]	The past, present and future of bioflocculants H. Salehizadeh, <i>University of Toronto, Canada</i>
[P17]	Novel magnetic carboxyl modified hypercrosslinked resins for effective removal of zwitterionic PPCPs J. Jin*, C.D. Shuang, Q. Zhou, <i>Nanjing University, China</i>
[P18]	Assessment of water quality and cyanobacteria growth at weir-upstream areas in the Nakdong river K.D. Park* ¹ , D.H. Kang ² , Y.H. So ² , S.M. Lee ³ , I.K. Kim ¹ , ¹ <i>Pukyong National University, Republic of Korea</i> , ² <i>Institute of Geoscience, Republic of Korea</i> , ³ <i>Pukyong National University, Republic of Korea</i>
[P19]	Assessment of the efficiency of water supply system using the revised Gravity Model - The case of South Korea N. Kim ¹ , D.G. Kwak* ² , ¹ <i>Seoul National University, Republic of Korea</i> , ² <i>POSCO E&C, Republic of Korea</i>
[P20]	The enhancements of the growth and microbiological diversity of tomato by negative pressure irrigation X. Gao*, X.J. Zhao, S.X. Zhang, X.P. Wu, R.L. Zhang, C.A. Lu, H.Y. Long, <i>Chinese Academy of Agricultural Sciences, China</i>
[P21]	Responds of photosynthetic characteristics and water use efficiency of cucumber to soil water content X. Wu*, H. Long, S. Li, R. Zhang, C. Lu, <i>CAAS, China</i>

[P22]	Withdrawn
[P23]	Leachate from fruit and vegetable waste compost: can it be used as fertilizer? C.J. Beauchamp*, P.M. Sall, H. Antoun, F-P. Chalifour, <i>Universite Laval, Canada</i>
[P24]	Diagnosing water security in the rural North with an environmental security framework H.J.F. Penn* ¹ , P.A. Loring ² , W.E. Schanbel ³ , ¹ <i>University of Calgary, Canada</i> , ² <i>University of Saskatchewan, Canada</i> , ³ <i>University of Alaska Fairbanks, USA</i>
[P25]	Withdrawn
[P26]	Photo-EBPR: A novel low cost system to remove phosphorus using light instead of air V.C.F. Carvalho, E.B. Freitas, P.J. Silva, J.C. Fradinho, A. Ohemen, M.A.M. Reis*, <i>Universidade NOVA de Lisboa, Portugal</i>
[P27]	Characterisation of heavy metal pollutants in drinking water in China J. Sun ¹ , L. Yang ¹ , S. Adegbite* ¹ , J. Oladejo ¹ , O. Awakan ² , ¹ <i>The University of Nottingham Ningbo, China</i> , ² <i>Landmark University, Nigeria</i>
[P28]	Implementation of Smart Water Grid and its economic analysis - The case of Yeongjong Island in Korea D.G. Kwak* ¹ , N. Kim ² , W.T. Kim ¹ , Y.J. Kim ¹ , H.W. Nam ¹ , ¹ <i>POSCO E&C, Republic of Korea</i> , ² <i>Seoul National University, Republic of Korea</i>
[P29]	Private investment model of water facilities for establishing efficient water welfare - The case of integrated water purification plants in Pohang City, Korea D.G. Kwak* ¹ , N. Kim ² , Y.S. Shim ¹ , W.T. Kim ¹ , ¹ <i>POSCO E&C, Republic of Korea</i> , ² <i>Seoul National University, Republic of Korea</i>
[P30]	Identifying Health Effects of Exposure to Dioxane Using Omic Approaches in Mice J.D. Cheng ¹ , P. Shi ¹ , J.F. Qiu* ² , ¹ <i>Nanjing University, China</i> , ² <i>Nanjing Medical University, China</i>
[P31]	Issues of the On-farm Root Vegetables Wash Water Quality, Efficiency of the Wastewater Treatment, and Possibilities of the Water Recycling in the Washing Process N. Sabiene*, M. Dapkienė, A. Radzevicius, <i>Aleksandras Stulginskis University, Lithuania</i>
[P32]	Ozone induced biodegradability enhancement and color removal of complex textile wastewater S.N. Malik* ^{1,3} , P.C. Ghosh ³ , A.N. vaidya ¹ , V. Waindeskar ² , S.N. Mudliar ¹ , ¹ <i>Indian Institute of Technology Bombay, India</i> , ² <i>CSIR-NEERI, Nagpur, India</i> , ³ <i>Ozone Research & Application India Pvt Ltd, Nagpur, India</i>
[P33]	Acidogenesis of leather pickling wastewater: Extreme salinity effects on process performance C.S.S. Oliveira, J. Cassidy, A. Cogoni, B. Oliveira, C. Henriques, G. Carvalho, M.A.M. Reis*, <i>UCIBIO, Portugal</i>
[P34]	Development of advanced biological technology for simultaneous nitrification, denitrification and phosphorus removal T. Tao*, S. Chang, P. Wu, <i>University of Guelph, Canada</i>
[P35]	Study on groundwater system identification based on hydrological signals processing technique B. Zhu*, C.Y. Yin, W.W. Si, <i>Guilin University of Technology, China</i>
[P36]	Recalcitrance and Feasibility Study of using Biochar in In-situ Chemical Oxidation Process for Degradation of Naphthenic Acids P. Devi*, U. Das, A.K. Dalai, <i>University of Saskatchewan, Canada</i>
[P37]	Modeling of solar still and temperature profiles in solar stills using ansys-cfd F. Ameen*, J. A. Stagner, D. S-K. Ting, <i>University of Windsor, Canada</i>
[P38]	Set up on numerical model of quantify total supply water and the volume of soil desalination under NPI J.J. Zhang* ^{1,2} , Y.F. Huang ¹ , H.Y. Long ² , X. An ¹ , Z.X. Sun ¹ , ¹ <i>China Agricultural University; China</i> , ² <i>Chinese Academy of Agricultural Sciences, Beijing, China</i>
[P39]	Oxidative degradation of toluene using liquid sodium ferrate(VI) and solid potassium ferrate(VI): Effect of pH and molar ratio in aqueous phase D. Majid* ¹ , I.K. Kim ² , ¹ <i>Pukyong National University, Republic of Korea</i> , ² <i>Pukyong National University, Republic of Korea</i>
[P40]	Estimation of land use and infiltration : Dhaka city S.M.M. Hoque*, M.M. Rahman, <i>Bangladesh University of Engineering and Technology, Bangladesh</i>
[P41]	A direct approach to the estimate of gray water footprint of cattle grazing in karst environment: key indicators from the Terminio Mount (southern Italy) E. Marzano* ^{1,3} , V. Allocca ² , M. Tramontano ¹ , ¹ <i>University of Naples Parthenope, Italy</i> , ² <i>University of Naples Federico II, Italy</i> , ³ <i>CESIfo, Germany</i>
[P42]	Performance evaluation of dissolved air flotation process in the drinking water treatment plant W. Jung*, J.S. An, J.Y. Park, H.J. Oh, <i>Korea Institute of Civil Engineering and Building Technology, Republic of Korea</i>
[P43]	Iron, Zinc and Copper Chelation Activity of <i>Phragmites australis</i> stems extracts. A. Sellal*, A. Bouzidi, <i>Setif 1 university, Algeria</i>
[P44]	Environmental Impacts of Milk Production: A Breed Wise Life Cycle Assessment Approach, Karnal, India D. Pandey*, S. Sirohi, S.V. Singh, <i>National Dairy Research Institute, India</i>

[P45]	What impact of family farms irrigated development on water resources? Experimental plan to assess rice-fish farming basins in Guinea M. Keita ¹ , S. Slimani ² , M. Oswald ² , B. Laignel ¹ , R. Petit-Roulet ^{*1} , ¹ <i>Institut Supérieur des Mines et Géologie de Boké (ISMGB), Guinea</i> , ² <i>ISTOM, France</i> , ³ <i>University of Rouen, France</i>
[P46]	Suppression mechanisms of hydrogen peroxide on <i>Microcystis aeruginosa</i> growth and the recovery patterns T. Zhou*, Y. Tao, X. Zhang, <i>Graduate school at Shenzhen, Tsinghua University, China</i>
[P47]	Abundance and diversity of ammonia-oxidizing archaea in Dasha river S.F. Han*, W.B. Jin, A.E. Abomohra, J.H. Lv, R.J. Tu, H.Y. Chen, <i>Harbin Institute of Technology Shenzhen Graduate School, China</i>
[P48]	Enhancement of lipid extraction from <i>Chlorella pyrenoidosa</i> by using pulse electric field pretreatment S.F. Han*, W.B. Jin, Q. Yang, R.J. Tu, A.E. Abomohra, H.Y. Chen, X.Y. Bian, <i>Harbin Institute of Technology Shenzhen Graduate School,, China</i>
[P49]	Exploring sewage degrading bacteria and its promoting effect on oil-producing microalgae R.J. Tu*, W.B. Jin, A.E. Abomohra, S.D. Guo, S.F. Han, H.Y. Chen, F.Z. Zeng, Z.L. Shan, <i>Harbin Institute of Technology Shenzhen Graduate School,, China</i>
[P50]	Growth enhancement of microalgae cultivated in closed raceway pond using light pipe R.J. Tu*, W.B. Jin, A.E. Abomohra, X.J. Hu, S.F. Han, H.Y. Chen, F.Z. Zeng, Z.L. Shan, <i>Harbin Institute of Technology Shenzhen Graduate School,, China</i>
[P51]	The emerging H₂PO₄-based titanium(IV) phosphate ion-exchanger M. Trublet*, D. Rusanova, O.N. Antzutkin, <i>Luleå University of Technology, Sweden</i>
[P52]	Modeling of electrochemical-activated persulfate process on sulfamethoxazole with CCD and ANN L.L. Zhang* ^{1,2} , W. Ding ^{1,2} , J.T. Qiu ³ , ¹ <i>University of Science and Technology Beijing, China</i> , ² <i>Beijing Key Laboratory of Resource-oriented Treatment of Industrial Pollutants, China</i> , ³ <i>Tsinghua University, China</i>
[P53]	Visible-light-assisted peroxymonosulfate activation and novel mechanism for degradation of contaminants over g-C₃N₄ coordinating with iron (II) phthalocyanine catalyst W. Wu, X. Xu*, L. Lu, C. Chen, <i>Zhejiang Sci-Tech University, China</i>
[P54]	Water system unreliability and diarrhea incidence among children in Guatemala J. Trudeau ¹ , A. Aksan* ² , W.F. Vasquez ² , ¹ <i>Sacred Heart University, USA</i> , ² <i>Fairfield University, USA</i>
[P55]	Assessing the potential contribution of alternative water supply systems to water security in two water-stressed cities: Lilongwe (Malawi) and Sharm El-Sheikh (Egypt) O. Jussah ¹ , M. Orabi ¹ , J. Sušnik ¹ , F. Bichai* ^{1,2} , C. Zevenbergen ¹ , ¹ <i>UNESCO-IHE Institute for Water Education, The Netherlands</i> , ² <i>Polytechnic School of Montreal, Canada</i>
[P56]	Development of a novel water quality predictive model based on social and environmental variables G. Calvo-Brenes*, J. Mora-Molina, F. Araya-Rodriguez, <i>Instituto Tecnológico de Costa Rica, Costa Rica</i>
[P57]	Microalgae based treatment for wastewater and biomass conversion into aviation fuel J.K. Bwapwa, <i>Mangosuthu University of Technology, South Africa</i>
[P58]	Effect of temperature on the transport of concentrated domestic slurry A.K. Thota Radhakrishnan* ¹ , J.B. van Lier ¹ , F.H.L.R. Clemens ^{1,2} , ¹ <i>Delft University of Technology, The Netherlands</i> , ² <i>Deltares, The Netherlands</i>
[P59]	Optimizing the synthesis of metal-organic frameworks for effective adsorption of Pt(IV) from acidic solution using central composite design S. Lin*, Y. Yun, <i>Chonbuk National University, Republic of Korea</i>
[P60]	Urbanization, rural and urban water systems: zoning legislation of lands nearby metropolitan roads, and basin to deliver water for a population c. 500k S. Lancas* ¹ , W. Barrella ¹ , V. Gomes ¹ , ¹ <i>Universidade de Sao Paulo, Brazil</i> , ² <i>UNISANTA, Brazil</i> , ³ <i>CENTRO Paula Souza, Brazil</i>
[P61]	Reuse of Activated Sludge as Water Retention Substrate for Combating Desertification Y.H. Liu* ^{1,2} , W.H.O. Wai ¹ , H. Chua ² , ¹ <i>The Hong Kong Polytechnic University, Hong Kong</i> , ² <i>Technological and Higher Education Institute of Hong Kong, Hong Kong</i>
[P62]	Rainwater harvesting system for solution of water supply problems in island and rural area: a case study in Kido island. S. Baek*, H. Park, T-I. Kim, M. Han, <i>Seoul National University, Republic of Korea</i>
[P63]	Assessing expected microcystin removal in drinking water to support treatment decisions S. Singh*, M.I. Van Dyke, P.M. Huck, <i>University of Waterloo, Canada</i>
[P64]	Improving Water and Health Quality through Sustainable Sanitation Exercise: An Overview H.K. Ramaraju*, B.T. Shivendra, <i>Visveswaraya Technological University, India</i>
[P65]	The impact of climate variability on drought management: evidence from Japanese river basins K. Tembata*, K. Takeuchi, <i>Kobe University, Japan</i>

Poster Session 2
12:10-13:40, 12th September 2017

[P66]	Microbial Deactivation Using Filter Paper Embedded With Fe³⁺-Modified Montmorillonite L. Li ^{*1} , C. Qin ² , K. Xia ² , ¹ Cornell University, USA, ² Virginia Polytechnic Institute and State University, USA
[P67]	Socio economical impact of seawater intrusion in coastal aquifers of Indus River Deltaic N. Khan ^{*1} , A. Inam ¹ , I. Shahzad ² , I. Zia ¹ , ¹ National Institute of Oceanography, Pakistan, ² COMSATS Institute of Information Technology, Pakistan
[P68]	LFER modelling of adsorptive removal of pharmaceuticals by activated charcoal from aqueous solution Y.F. Zhao [*] , C.W. Cho, Y.S. Yun, <i>Chonbuk National University, Republic of Korea</i>
[P69]	A Comparison Between Various Functions Of An Artificial Neural Network For Forecasting The Use Of The Spatial Modeling Of Groundwater Levels H. kamangar ^{*1} , B. Sorkhilalehloo ² , ¹ Science and Research Branch Azad University of IRAN, Iran, ² The National Plant Gene bank of Iran, Iran
[P70]	Fate of tricyclic antidepressants in wastewater treatment plant J.W. Choi [*] , Y.F. Zhao, C.W. Cho, Y.S. Yun, <i>Chonbuk National University, Republic of Korea</i>
[P71]	Lipid production of immobilized microalgae in greywater treatment system Y.K. Wong [*] , Y.H. Ho, <i>The Open University of Hong Kong, Hong Kong</i>
[P72]	Withdrawn
[P73]	Understanding groundwater stress by developing a local impact assessment method R.N. Gejl ^{*1,2} , P.L. Bjerg ¹ , J. Rasmussen ² , M. Rygaard ¹ , ¹ DTU, Denmark, ² HOFOR, Denmark
[P74]	By-product reuse in drinking water softening: influence of operating conditions on calcium carbonate pellet characteristics C. Tang ^{*1,3} , P.S. Rosshaug ² , J.B. Kristensen ³ , M. Rygaard ¹ , H.J. Albrechtsen ¹ , ¹ Technical University of Denmark, Denmark, ² HOFOR Greater Copenhagen Utility, Denmark, ³ NIRAS, Denmark
[P75]	An Assessment Of Nickel Contamination In Ground Water And Agricultural Soil Through Textile Effluents Y. Sharma, K. "Kaur" [*] , <i>Guru Kashi University Talwandi Sabo, India</i>
[P76]	Operation evaluation of high-adaptive hybrid system for rainwater-low concentrated graywater to enhance the self-sufficiency D.G. Kwak [*] , T. Kim, I. Shim, M. Han, <i>Seoul National University, Republic of Korea</i>
[P77]	An analysis of runoff control potential for LID combination design of retention and infiltration in developing area using XPSWMM D.G. Kwak [*] , H. Kim, N. Kim, M.Y. Han, <i>Seoul National University, Republic of Korea</i>
[P78]	Development of standard model for Smart Water Grid by inland location type: The case study of D city in Korea D.G. Kwak [*] , W. Kim, Y. Kim, H. Nam, <i>POSCO E&C, Republic of Korea</i>
[P79]	A locational adjustment model for Smart Water Grid system application for the oasis-type city case D.G. Kwak [*] , Y. Kim, W. Kim, H. Nam, <i>POSCO E&C, Republic of Korea</i>
[P80]	Growth, lipid production and nutrient removal capability of heterotrophic <i>Scenedesmus</i> sp. LX1: effects of organic carbon, inorganic and organic nitrogen, metal ions Y.T. He, S.Y. Wang, Y. Hong [*] , <i>Beijing Key Lab for Source Control Technology of Water Pollution, Beijing Forestry University, China</i>
[P81]	Lowlands hydraulic developments: an evolution at the heart of the agricultural expansion in forest-savanna mosaic in Guinea R. Petit-Roulet [*] , M. Oswald, <i>ISTOM, France</i>
[P82]	Cost-effective hydroxyapatite crystallization-filtration process to remove phosphorus from wastewater using gypsum by-product H.Y. Chang ^{*1} , H.M. Lim ² , S.K. Kim ^{1,2} , W.J. Kim ^{1,2} , ¹ University of Science and Technology, Republic of Korea, ² Korea Institute of Civil Engineering and Building Technology, Republic of Korea
[P83]	Nanobubble synergistically enhanced photo-removal of organic pollutants under UV irradiation L. Wang ^{*1} , X.J. Miao ¹ , G. Pan ^{1,2} , ¹ Chinese Academy of Sciences, China, ² Nottingham Trent University, UK
[P84]	Modeling Changes in Agricultural Water Requirement and Land Use in Brazil R.A. Flach, <i>Hamburg University, Germany</i>
[P85]	Bioregeneration of powdered activated carbon loaded with pharmaceutical I. Vergili ¹ , F. Akgün ¹ , Y. Kaya ¹ , Z.B. Gönder ¹ , O. Aktas ² , G. Yilmaz ^{*1} , ¹ Istanbul University, Turkey, ² Istanbul Medeniyet University, Turkey
[P86]	Floating photocatalysts for solar treatment of naphthenic acid fraction organics in oil sands process-affected water T. Leshuk ^{*1,2} , H. Krishnakumar ^{1,2} , D. de Oliveira Livera ¹ , A. Tripp ¹ , K.M. Peru ³ , J.V. Headley ³ , F. Gu ^{1,2} , ¹ University of Waterloo, Waterloo, Canada, ² Waterloo Institute for Nanotechnology, Canada, ³ Water Science and Technology Directorate, Canada

[P87]	Development of novel nanomaterial photocatalysts for the removal of selenium from wastewater A.B. Holmes ^{*1,2} , F.X. Gu ^{1,2} , ¹ University of Waterloo, Canada, ² Waterloo Institute for Nanotechnology, Canada
[P88]	Immobilized photocatalysts - innovative enough for sustainable decentralized water treatment? N. Otto*, T.P. Vu, A. Vogel, F. Kern, U. Menzel, <i>University of Stuttgart, Germany</i>
[P89]	Metagenomic investigation on effects of organic loading rates in anaerobic membrane bioreactors with rotary disks and floating media M.J. Lee ^{*1} , H. Kim ² , K.G. Song ² , J. Park ¹ , ¹ Yonsei University, Republic of Korea, ² Korea Institute of Science and Technology, Republic of Korea
[P90]	Evaluation Of The Sustainability Of Use The Resource Hidric In The Mining Exploitation In Colombia By Means Of Life Cycle Assessment. N. Cano Londoño*, H. Velásquez Arredondo, C. Orozco Loiza, A. Romero Perez, C. Hasenstaba, <i>Universidad Nacional de Colombia, Colombia</i>
[P91]	Operational performance and protein source sludge increment in a combined biological adsorption-MBR- Sulfur/iron autotrophic denitrification process S. Wang ^{1,2} , K. Zheng ¹ , Y. Zhi ¹ , Y. Shi ¹ , J. Li ^{*1,2} , ¹ Jiangnan University, China, ² Jiangsu Key Laboratory of Anaerobic Biotechnology, China, ³ Jiangsu College of Water Treatment Technology and Material Collaborative Innovation Center, China
[P92]	Visible-light sensitive TiO₂-Fe₂O₃ and TiO₂-TiO₂ ordered hierarchical photocatalytic structures for COD mineralization application M.J. Gao ^{*1,2} , Y.X. Li ³ , X.D. Wang ² , M. Guo ⁴ , M. Zhang ⁴ , ¹ Chinese Academy of Sciences, China, ² Peking University, China, ³ Xi'an University of Architecture and Technology, China, ⁴ University of Science and Technology Beijing, China
[P93]	Exploring the use of industry waste in the synthesis of Fe(III) oxide nanohybrid for arsenic removal A. Kumar*, H. Joshi, A. Kumar, <i>IIT Roorkee, India</i>
[P94]	Mechanisms of sludge degradation in a two-stage biological hydrolysis process Y. Liu*, S. Chang, <i>University of Guelph, Canada</i>
[P95]	Groundwater Water Value and Sustainability B.C. Soldera ^{*1} , E. de Oliveira ^{1,2} , ¹ Universidade Estadual Paulista "Júlio de Mesquita Filho"UNESP/IGCE, Brazil, ² Company Hidroplan, Brazil
[P96]	How to achieve identify low-carbon and resource-efficient pathways for the Netherlands in 2050: a simple system dynamics model V. Linderhof*, N. Polman, K. Dekkers, <i>Wageningen University and Research, The Netherlands</i>
[P97]	Comparative study of cantaloupe peels and cement kiln dust in removal of lead from aqueous solutions A. El-Refaey ^{*1} , S. Mohammad ¹ , ¹ Alexandria University, Egypt, ² Agriculture Research Center, Egypt
[P98]	Anaerobic oxidation of methane coupled to denitrification in a membrane-biofilm reactor J. Lee ^{*1} , W. Alrashed ¹ , J. Park ² , H-S. Lee ¹ , ¹ University of Waterloo, Canada, ² Yonsei University, Republic of Korea
[P99]	Application of Natural Polymer to the Direct Filtration System: an Optimum Solution H. Fadel, <i>Misr Higher Institute for Engineering and Technology, Egypt</i>
[P100]	Drinking water quality from lakes in Sicily, Italy. The first risk evaluation for the drinking waters safety. P. Zuccarello ^{1,3} , G. Oliveri Conti ^{*1} , A. Cristaldi ^{1,3} , C. Copat ¹ , M. Manganelli ² , M. Stefanelli ⁴ , E. Testai ² , M. Ferrante ¹ , ¹ Environmental and Food Hygiene Laboratories (LIAA) of Department "G.F. Ingrassia" of University of Catania., Italy, ² Dipartimento di Ambiente e Connessa Prevenzione Primaria, Istituto Superiore di Sanità, Italy, ³ Geological and Environmental Science of University of Catania., Italy, ⁴ INPS, Rome, Italy
[P101]	Cellulose Nanocrystal Incorporated Nanocomposite Hydrogels for Water Treatment Applications N. Mohammed ¹ , N. Grishkewich ^{*1} , R.M. Berry ^{1,2} , K.C. Tam ¹ , ¹ University of Waterloo, Canada, ² Cellulforce Inc., Canada
[P102]	Evaluation of wastewater treatment systems in the San Pedro-Mezquital basin M.G. Vicencio ^{*1} , A. Rios-Garcia ² , M.E. Perez-Lopez ¹ , L.A. Ordaz-Diaz ³ , M.A. Martinez-Prado ² , ¹ Instituto Politecnico Nacional, Mexico, ² Instituto Tecnológico de Durango, Mexico, ³ Universidad Politecnica de Durango, Mexico
[P103]	Relating Extreme Temperature and Precipitation to Improve IDF Curve Estimates for Ontario in Response to Climate Change H. Desai*, R. Soulis, C. Adams, Q. Jilong, S. Memarian, <i>University of Waterloo, Canada</i>
[P104]	Optimization plan for the use of detergents in a section of one rural cheese factory M.I. Morales-Rodriguez ^{*1} , M.E. Perez-Lopez ¹ , M.A. Martinez-Prado ² , M.M.M. Teutli-Leon ¹ , ¹ Instituto Politecnico Nacional, Mexico, ² Instituto Tecnológico de Durango, Mexico, ³ Benemerita Universidad Autonoma de Puebla, Mexico
[P105]	Water quality and its relation with presents microalgae in the rivers Durango and El Tunal, Durango, Mexico M.E. Perez-Lopez*, A. Loreda-Trevino, M.G. Sanchez-Martinez, M.G. Vicencio-de la Rosa, <i>Instituto Politecnico Nacional, Mexico</i>

[P106]	Determination of Water Quality Index and Suitability of an Urban Water Body in Central Part of Bangalore, Karnataka, South India H.K. Ramaraju*, G. Venkatesha, <i>Visveswaraya Technological University, India</i>
[P107]	Examining the Life-Cycle Environmental Impacts of Multi-Stage Flash Desalination: A Case Study in the State of Qatar M. Mannan*, S.G. Al-Ghamdi, <i>Hamad Bin Khalifa University (HBKU), Qatar</i>
[P108]	Improving Water and Health Quality through Sustainable Sanitation Exercise: An Overview H.K. Ramaraju*, B.T. Shivendra, <i>Visveswaraya Technological University, India</i>
[P109]	Assessment of some aspects of provisioning sewerage treatment systems in urban agglomerations of Ganga river basin S. Shukla* ^{1,2} , V. Tare ² , ¹ <i>Shri Ramswaroop Memorial University, India</i> , ² <i>IIT Kanpur, India</i>
[P110]	Physico-chemical characterization of EPS-based biomaterial recovered from anammox granular waste sludge T. Lotti ¹ , E. Carretti ² , D. Berti ² , C. Lubello ² , F. Malpei ¹ , Y. Lin* ¹ , ¹ <i>Politecnico di Milano, Italy</i> , ² <i>University of Florence, Italy</i>
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