

## Artículos 2013

AUTORES	TITULO	FUENTE
Baquerizo, G; Chaneac, A; Arellano-García, L; Gonzalez-Sanchez, A; Revah, S	<u>Biological Removal of High Loads of Thiosulfate Using a Tricking Filter Under Alkaline Conditions</u>	MINE WATER AND THE ENVIRONMENT
Casasola-Rodriguez, B; de Velasquez, MTO; Luqueno-Martinez, VG; Monje-Ramirez, I	<u>Quantification of Helicobacter pylori in the viable but nonculturable state by quantitative PCR in water disinfected with ozone</u>	WATER SCIENCE AND TECHNOLOGY
Castro, Alejandrina; Acevedo-Berruecos, Diana; Urbietta, Javier; Iturbe, Rosario; Delgado-Rodriguez, Omar	Geochemical and geoelectric characterization of a site contaminated by hydrocarbons in the state of Puebla, Mexico	BOLETIN DE LA SOCIEDAD GEOLOGICA MEXICANA
Cobos-Becerra, YL; Gonzalez-Martinez, S	Influence of air flow rate and backwashing on the hydraulic behaviour of a submerged filter	WATER SCIENCE AND TECHNOLOGY
Garcia-Sanchez, L; Garzon-Zuniga, MA; Buelna, G; Moeller-Chavez, GE; Noyola, A; Avilez-Flores, M; Estrada-Arriaga, EB	<u>Occurrence of tylosin in swine wastewater in Mexico</u>	WATER SCIENCE AND TECHNOLOGY
Guereca, LP; Torres, N; Noyola, A	<u>Carbon Footprint as a basis for a cleaner research institute in Mexico</u>	JOURNAL OF CLEANER PRODUCTION
Jimenez-Cisneros, B	Improving the air quality in Mexico City through reusing wastewater for environmental restoration	MILESTONES IN WATER REUSE: THE BEST SUCCESS STORIES
Karpova, T; Pekonen, P; Gramstad, R; Ojstedt, U; Laborda, S; Heinonen-Tanski, H; Chavez, A; Jimenez, B	<u>Performic acid for advanced wastewater disinfection</u>	WATER SCIENCE AND TECHNOLOGY
Landa-Cansigno, O; Duran-Alvarez, JC; Jimenez-Cisneros, B	<u>Retention of Escherichia coli, Giardia lamblia cysts and Ascaris lumbricoides eggs in agricultural soils irrigated by untreated wastewater</u>	JOURNAL OF ENVIRONMENTAL MANAGEMENT
Melo-Guimaraes, A; Torner-Morales, FJ; Duran-Alvarez, JC; Jimenez-Cisneros, BE	<u>Removal and fate of emerging contaminants combining biological, flocculation and membrane treatments</u>	WATER SCIENCE AND TECHNOLOGY
Mercado-Borrayo, BM; Schouwenaars, R; Gonzalez-Chavez, JL; Ramirez-Zamora, RM	<u>Multi-analytical assessment of iron and steel slag characteristics to estimate the removal of metalloids from contaminated water</u>	JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING
Montes, Raquel T.; Navarro, Ines; Dominguez, Ramon; Jimenez, Blanca	Changes in the self-purification capacity of the Magdalena River due to climate change	TECNOLOGIA Y CIENCIAS DEL AGUA
Morales, AA; Schouwenaars, R; Pfeiffer, H; Ramirez-Zamora, RM	<u>Inactivation of Ascaris eggs in water using hydrogen peroxide and a Fenton type nanocatalyst (FeOx/C) synthesized by a novel hybrid production process</u>	JOURNAL OF WATER AND HEALTH
Navarrete, Said; Jimenez, Blanca; Navarro, Ines; Dominguez, Ramon	Assessment of risk due to extreme rainfall for the Xochimilco aquifer	TECNOLOGIA Y CIENCIAS DEL AGUA, 4 (3):103-123; JUL-AUG 2013

Orta de Velasquez, M. T.; Monje-Ramirez, I.; Munoz Paredes, J. F.	<u>Effect of Ozone in UF-Membrane Flux and Dissolved Organic Matter of Secondary Effluent</u>	OZONE-SCIENCE & ENGINEERING
Arreola-Vargas, J; Celis, LB; Buitron, G; Razo-Flores, E; Alatraste-Mondragon, F	Hydrogen production from acid and enzymatic oat straw hydrolysates in an anaerobic sequencing batch reactor: Performance and microbial population analysis	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
Buitron, G; Cervantes-Astorga, C	<u>Performance Evaluation of a Low-Cost Microbial Fuel Cell Using Municipal Wastewater</u>	WATER AIR AND SOIL POLLUTION
Cercado, B; Chazaro-Ruiz, LF; Ruiz, V; Lopez-Prieto, ID; Buitron, G; Razo-Flores, E	<u>Biotic and abiotic characterization of bioanodes formed on oxidized carbon electrodes as a basis to predict their performance</u>	BIOSENSORS & BIOELECTRONICS
Perez-Alfaro, JE; Buitron, G; Gomez, J; Texier, AC; Cuervo-Lopez, FM	<u>Kinetic and Physiological Evaluation of Ammonium and Nitrite Oxidation Processes in Presence of 2-Chlorophenol</u>	APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY
Prato-Garcia, D; Buitron, G	<u>Improvement of the robustness of solar photo-Fenton processes using chemometric techniques for the decolorization of azo dye mixtures</u>	JOURNAL OF ENVIRONMENTAL MANAGEMENT
Prato-Garcia, D; Cervantes, FJ; Buitron, G	<u>Azo dye decolorization assisted by chemical and biogenic sulfide</u>	JOURNAL OF HAZARDOUS MATERIALS

## Artículos 2014

AUTORES	TITULO	FUENTE
Cobos-Becerra, Yazmin L; Gonzalez-Martinez, Simon	<u>Residence time distribution determination in a submerged filter with and without aeration using a tracer</u>	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY
Bahr, Melanie; Diaz, Ignacio; Dominguez, Antonio; Gonzalez Sanchez, Armando; Munoz, Raul	Microalgal-Biotechnology As a Platform for an Integral Biogas Upgrading and Nutrient Removal from Anaerobic Effluents	ENVIRONMENTAL SCIENCE & TECHNOLOGY
Buitron, G; Prato-Garcia, D; Zhang, A	Biohydrogen production from tequila vinasses using a fixed bed reactor	WATER SCIENCE AND TECHNOLOGY
Buitron, German; Moreno-Andrade, Ivan	<u>Performance of a Single-Chamber Microbial Fuel Cell Degrading Phenol: Effect of Phenol Concentration and External Resistance</u>	APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY
Duran-Alvarez, JC; Prado, B; Ferroud, A; Juayerk, N; Jimenez-Cisneros, B	<u>Sorption, desorption and displacement of ibuprofen, estrone, and 17 beta estradiol in wastewater irrigated and rainfed agricultural soils</u>	SCIENCE OF THE TOTAL ENVIRONMENT
Duran-Alvarez, Juan C.; Sanchez, Yamani; Prado, Blanca; Jimenez, B.	<u>The transport of three emerging pollutants through an agricultural soil irrigated with untreated wastewater</u>	JOURNAL OF WATER REUSE AND DESALINATION
Escobar-Megchun, SI; Najera-Aguilar, HA; Gonzalez-Hilerio, M; Gutierrez-Jimenez, J; Gutierrez-Hernandez, RF; Rojas-Valencia, MN	Application of the Fenton process in the elimination of helminth eggs	JOURNAL OF WATER AND HEALTH
Espejel-Ayala, F.; Chora Corella, R.; Morales Perez, A.; Perez-Hernandez, R.; Ramirez-Zamora, R. M.	<u>Carbon dioxide capture utilizing zeolites synthesized with paper sludge and scrap-glass</u>	WASTE MANAGEMENT & RESEARCH

Espejel-Ayala, F; Schouwenaars, R; Duran-Moreno, A; Ramirez-Zamora, RM	<u>Use of drinking water sludge in the production process of zeolites</u>	RESEARCH ON CHEMICAL INTERMEDIATES
Flores-Serrano, RM; Iturbe-Arguelles, R; Perez-Casimiro, G; Ramirez-Gonzalez, A; Flores-Guido, JS; Kantun-Balam, JM	<u>Ecological risk assessment for small omnivorous mammals exposed to polycyclic aromatic hydrocarbons: A case study in northeastern Mexico</u>	SCIENCE OF THE TOTAL ENVIRONMENT
Garcia-Jares, C; Becerril-Bravo, E; Sanchez-Prado, L; Lamas, JP; Dagnac, T; Llompert, M	<u>Analysis of different high production volume chemicals and their chlorination by-products in waters by ultrasound-assisted emulsification-microextraction</u>	INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY
Gonzalez Sanchez, Armando; Flores Marquez, Trinidad Eliseo; Revah, Sergio; Morgan Sagastume, Juan Manuel	<u>Enrichment and cultivation of a sulfide-oxidizing bacteria consortium for its deploying in full-scale biogas desulfurization</u>	BIOMASS & BIOENERGY
Gonzalez-Sanchez, Armando; Arellano-Garcia, Luis; Bonilla-Blancas, Wenceslao; Baquerizo, Guillermo; Hernandez, Sergio; Gabriel, David; Revah, Sergio	<u>Kinetic Characterization by Respirometry of Volatile Organic Compound-Degrading Biofilms from Gas-Phase Biological Filters</u>	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH
Haro, ME; Navarro, I; Thompson, R; Jimenez, B	<u>Estimation of the water footprint of sugarcane in Mexico: is ethanol production an environmentally feasible fuel option?</u>	JOURNAL OF WATER AND CLIMATE CHANGE
Hernandez-Mendoza, CE; Buitron, G	<u>Suppression of methanogenic activity in anaerobic granular biomass for hydrogen production</u>	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY
Jimenez, J.; Cisneros-Ortiz, M. E.; Guardia-Puebla, Y.; Morgan-Sagastume, J. M.; Noyola, A.	<u>Optimization of the thermophilic anaerobic co-digestion of pig manure, agriculture waste and inorganic additive through specific methanogenic activity</u>	WATER SCIENCE AND TECHNOLOGY
Jimenez, J.; Guardia-Puebla, Y.; Romero-Romero, O.; Cisneros-Ortiz, M. E.; Guerra, G.; Morgan-Sagastume, J.M.; Noyola, A.	<u>Methanogenic activity optimization using the response surface methodology, during the anaerobic co-digestion of agriculture and industrial wastes. Microbial community diversity</u>	BIOMASS & BIOENERGY
Komolafe, Oladapo; Orta, Sharon B. Velasquez; Monje-Ramirez, Ignacio; Yanez Noguez, Isaura; Harvey, Adam P.; Orta Ledesma, Maria T.	Biodiesel production from indigenous microalgae grown in wastewater	BIORESOURCE TECHNOLOGY
Mazari-Hiriart, Marisa; Perez-Ortiz, Gustavo; Teresa Orta-Ledesma, Maria; Armas-Vargas, Felipe; Tapia, Marco A.; Solano-Ortiz, Rosa; Silva, Miguel A.; Yanez-Noguez, Isaura; Lopez-Vidal, Yolanda; Diaz-Avalos, Carlos	<u>Final Opportunity to Rehabilitate an Urban River as a Water Source for Mexico City</u>	PLOS ONE
Mercado-Borrayo, B. M.; Schouwenaars, R.; Litter, M. I.; Ramirez-Zamora, R. M.	<u>Adsorption of Boron by Metallurgical Slag and Iron Nanoparticles</u>	ADSORPTION SCIENCE & TECHNOLOGY

Orta de Velasquez, M. T.; Velazquez Pedroza, K.; Yanez-Noguez, I.; Monje-Ramirez, I.; Campos-Reales-Pineda, A. E.	<u>Effects on macronutrient contents in soil-plant irrigated with different quality waters and wastewaters</u>	JOURNAL OF WATER REUSE AND DESALINATION
Reeve, Dominic E.; Pedrozo-Acuna, Adrian; Spivack, Mark	Beach memory and ensemble prediction of shoreline evolution near a groyne	COASTAL ENGINEERING
Rojas-Valencia, Maria-Neftali; Espejel-Ayala, Fabricio; Rosa-Maria Ramirez-Zamora, Sergio Marin Y.	Synthesis of Zeolites Using Paper Industry Sludge as Raw Material	JOURNAL OF RESIDUALS SCIENCE & TECHNOLOGY
Velasquez-Orta, S. B.; Garcia-Estrada, R.; Monje-Ramirez, I.; Harvey, A.; Orta Ledesma, M. T.	<u>Microalgae harvesting using ozoflotation: Effect on lipid and FAME recoveries</u>	BIOMASS & BIOENERGY
Arellano-Badillo, VM; Moreno-Andrade, I; Buitron, G	<u>Effect of the Organic Matter to Ammonia Ratio on Aerobic Granulation during 4-Chlorophenol Degradation in a Sequencing Batch Reactor</u>	CLEAN-SOIL AIR WATER
Buitron, German; Kumar, Gopalakrishnan; Martinez-Arce, Andres; Moreno, Gloria	<u>Hydrogen and methane production via a two-stage processes (H-2-SBR + CH4-UASB) using tequila vinasses</u>	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
Buitron, German; Moreno-Andrade, Ivan; Arellano-Badillo, Victor M.; Ramirez-Amaya, Victor	<u>Membrane biofouling mechanism in an aerobic granular reactor degrading 4-chlorophenol</u>	WATER SCIENCE AND TECHNOLOGY
Cea-Barcia, Glenda; Buitron, German; Moreno, Gloria; Kumar, Gopalakrishnan	<u>A cost-effective strategy for the bio-prospecting of mixed microalgae with high carbohydrate content: Diversity fluctuations in different growth media</u>	BIORESOURCE TECHNOLOGY
Hernandez-Mendoza, Christian E.; Moreno-Andrade, Ivan; Buitron, German	<u>Comparison of hydrogen-producing bacterial communities adapted in continuous and discontinuous reactors</u>	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
Kumar, Gopalakrishnan; Lin, Chiu-Yue	Biogenic Hydrogen Conversion of De-Oiled Jatropha Waste via Anaerobic Sequencing Batch Reactor Operation: Process Performance, Microbial Insights, and CO2 Reduction Efficiency	SCIENTIFIC WORLD JOURNAL
Moreno-Andrade, Ivan; Kumar, Gopalakrishnan; Buitron, German	<u>Effect of Starvation upon Activity of Microorganisms Degrading 4-Chlorophenol</u>	JOURNAL OF THE CHINESE CHEMICAL SOCIETY
Moreno-Andrade, Ivan; Moreno, Gloria; Kumar, Gopalakrishnan; Buitron, German	<u>Biodegradation of Toilet Wastewaters Generated in Aircrafts</u>	JOURNAL OF THE CHINESE CHEMICAL SOCIETY
Olsson, G; Carlsson, B; Comas, J; Copp, J; Gernaey, KV; Ingildsen, P; Jeppsson, U; Kim, C; Rieger, L; Rodriguez-Roda, I; Steyer, JP; Takacs, I; Vanrolleghem, PA; Vargas, A; Yuan, Z; Amand, L	Instrumentation, control and automation in wastewater - from London 1973 to Narbonne 2013	WATER SCIENCE AND TECHNOLOGY
Ruiz, Vianey; Ilhan, Zehra Esra; Kang, Dae-Wook; Krajmalnik-Brown, Rosa; Buitron, German	<u>The source of inoculum plays a defining role in the development of MEC microbial consortia fed with acetic and propionic acid mixtures</u>	JOURNAL OF BIOTECHNOLOGY
Torres Zuniga, Ixbalank; Wouwer, Alain Vande	Optimization of VARICOL SMB processes using hybrid modeling and nonlinear programming	COMPUTERS & CHEMICAL ENGINEERING
Vargas, A.; Moreno, J. A.; Vande Wouwer, A.	<u>A weighted variable gain super-twisting observer for the estimation of kinetic rates in biological systems</u>	JOURNAL OF PROCESS CONTROL

Vargas, Alejandro; Montano, Liliana; Amaya, Rodolfo	<u>Enhanced polyhydroxyalkanoate production from organic wastes via process control</u>	BIORESOURCE TECHNOLOGY
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## Artículos 2015

AUTORES	TITULO	FUENTE
Barrios, JA; Becerril, E; De Leon, C; Barrera-Diaz, C; Jimenez, B	<u>Electrooxidation treatment for removal of emerging pollutants in wastewater sludge</u>	FUEL
Campuzano, Rosalinda; Gonzalez-Martinez, Simon	<u>Extraction of soluble substances from organic solid municipal waste to increase methane production</u>	BIORESOURCE TECHNOLOGY
Cobos-Becerra, YL; Gonzalez-Martinez, S	<u>Influence of the organic loading rate on the hydraulic behaviour and the azo-dye removal in an anaerobic filter</u>	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY
de Los Cobos-Vasconcelos, D., García-Cruz, E.L., Franco-Morgado, M., González-Sánchez, A.	<u>Short-term evaluation of the photosynthetic activity of an alkaliphilic microalgae consortium in a novel tubular closed photobioreactor</u>	JOURNAL OF APPLIED PHYCOLOGY
Gueereca, Leonor Patricia; Sosa, Ricardo Ochoa; Gilbert, Haley E.; Reynaga, Nydia Suppen	<u>Life cycle assessment in Mexico: overview of development and implementation</u>	INTERNATIONAL JOURNAL OF LIFE CYCLE ASSESSMENT
Herrera-Robledo, M., Noyola, A.	<u>The evolution of pore-blocking during the ultrafiltration of anaerobic effluent-like mixtures</u>	SEPARATION AND PURIFICATION TECHNOLOGY
Huete-Pérez, J.A., Alvarez, P.J.J., Schnoor, J.L., Rittmann, B.E., Clayton, A., Acosta, M.L., Bicudo, C.E.M., K. Arroyo, M.T., Brett, M.T., Campos, V.M., Chaimovich, H., Jimenez-Cisneros, B., Covich, A., Lacerda, L.D., Maes, J.-M., Miranda, J.C., Montenegro-Guillén, S., Ortega-Hegg, M., Urquhart, G.R., Vammen, K., Zambrano, L.	Scientists raise alarms about fast tracking of transoceanic canal through Nicaragua	ENVIRONMENTAL SCIENCE AND TECHNOLOGY
Jimenez, J.; Guardia-Puebla, Y.; Cisneros-Ortiz, M. E.; Morgan-Sagastume, J. M.; Guerra, G.; Noyola, A.	<u>Optimization of the specific methanogenic activity during the anaerobic co-digestion of pig manure and rice straw, using industrial clay residues as inorganic additive</u>	CHEMICAL ENGINEERING JOURNAL
Vargas, A. V.; Zenon, E.; Oswald, U.; Islas, J. M.; Gueereca, L. P.; Manzini, F. L.	<u>Life cycle assessment: A case study of two wind turbines used in Mexico</u>	APPLIED THERMAL ENGINEERING
Bakonyi, P.; Nemestothy, N.; Lanko, J.; Rivera, I.; Buitron, G.; Belafi-Bako, K.	<u>Simultaneous biohydrogen production and purification in a double-membrane bioreactor system</u>	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
Benavides, M., Mailier, J., Hantson, A.-L., Muñoz, G., Vargas, A., Impe, J.V., Wouwer, A.V.	<u>Design and test of a low-cost RGB sensor for online measurement of microalgae concentration within a photo-bioreactor</u>	SENSORS (SWITZERLAND)

Castillo-Hernández, A., Mar-Alvarez, I., Moreno-Andrade, I.	<u>Start-up and operation of continuous stirred-tank reactor for biohydrogen production from restaurant organic solid waste</u>	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
Moreno-Andrade, I., Carrillo-Reyes, J., Santiago, S.G., Bujanos-Adame, M.C.	<u>Biohydrogen from food waste in a discontinuous process: Effect of HRT and microbial community analysis</u>	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY
Moreno-Andrade, Ivan; Moreno, Gloria; Kumar, Gopalakrishnan; Buitron, German	Biohydrogen production from industrial wastewaters	WATER SCIENCE AND TECHNOLOGY
Torres Zuniga, Ixbalank; Vargas, Alejandro; Latrille, Eric; Buitron, German	<u>Robust observation strategy to estimate the substrate concentration in the influent of a fermentative bioreactor for hydrogen production</u>	CHEMICAL ENGINEERING SCIENCE