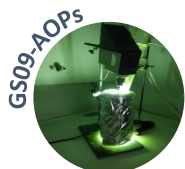




WCCE11 - 11th WORLD CONGRESS OF CHEMICAL ENGINEERING

IACCHE - XXX Inter-American Congress of Chemical Engineering
 CAIQ2023 - XI Argentinian Congress of Chemical Engineering
 CIBIQ2023 - II Ibero-American Congress of Chemical Engineering
 Buenos Aires - Argentina - June 4-8, 2023

"The global chemical engineering working for a better future world"



GS09-Global Symposium on Advanced Oxidation Processes: from radicals to clean water

Monday, June 5th
 Tuesday, June 6th
 Auditorium
 "Francisco Valsecchi"

PROGRAM

ORAL SESSIONS

SESSION 1. AOPs FOR DISINFECTION

Chairs: *Daphne Hermosilla, Universidad Politécnica de Madrid, Spain*
Marta Litter, CONICET, Argentina

Monday, June 5th
 Auditorium
 "Dr. Francisco Valsecchi"

ID2459 KEYNOTE	9:00-9:30	"Development of SODIS technologies for the effective disinfection of drinking water: Microbicidal efficacy, toxicity and long-term use" O'Dowd, K.; Oller, I.; Polo-López, M.I.; García-Gil, A.; Marugán, J.; Hipólito Gómez-Couso, H.; Marasini, R.; McGuigan, K.G.; <u>Pillai, S.C.</u> ATU Sligo (Ireland)
ID2683	9:30-9:45	"Evaluation of indoor disinfection efficiency by photocatalysis and photolysis on air filters" Flores, M.; Passalía, C.; Labas, M.; Brandi, R. UNL-CONICET (Argentina)
ID2843	9:45-10:00	"Membrane bioreactor followed by heterogeneous TiO ₂ and TiO ₂ -rGO photocatalytic processes or solar photo-Fenton oxidation: bacterial reduction and changes in bacterial community structure" Karaolia, P.; Costas, M.; Schwartz, T.; Fatta-Kassinos, D. Nireas-International Water Research Center, University of Cyprus (Cyprus)
ID2363	10:00-10:15	"Low-cost solar disinfection: Advanced Oxidation Processes assisted by mineral atacamite (Cu ₂ Cl(OH) ₃)" Haro, D.; Mola, M.; García-Muñoz, P.; Fresno, F.; <u>Rodríguez-Chueca, J.</u> Universidad Politécnica de Madrid (Spain)
ID1382	10:15-10:30	"Investigation of potential synergistic effect between 3 wavelengths in UV photoreactors for water disinfection" Uppinakudru, A.P.; Pablos, C.; Reynolds, K.; Stanley, S.; <u>Marugán, J.</u> Universidad Rey Juan Carlos (Spain)

KEYNOTE

Chairs: *Daphne Hermosilla, Universidad Politécnica de Madrid, Spain*
Marta Litter, CONICET, Argentina

Monday, June 5th
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ID2007 KEYNOTE	11:00-11:30	"Phosphorus modified Cu-Mg ferrite composites for photocatalytic ozonation of lomefloxacin" Jarusheh, H.; Banat, F.; Abu Haija, M.; <u>Palmisano, G.</u> Khalifa University (United Arab Emirates)
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SESSION 2. ADVANCES IN ELECTROCHEMICAL AOPs

Chairs: *Martin Meichtry, CONICET, Argentina*
Carla di Luca, CONICET, Argentina

Monday, June 5th
 Auditorium
 "Dr. Francisco Valsecchi"

ID1344 KEYNOTE	14:00-14:30	"Pd decorated graphite electrodes for PFOA electrooxidation" <u>García-Costa, A.L.</u> ; Savall, A.; Zazo, J.A.; Groenen-Serrano, K.; Casas, J.A. Universidad Autónoma de Madrid (Spain)
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ID2513	14:30-14:45	“Evaluación de PCDD/Fs durante la electro-oxidación de disoluciones acuosas contaminadas con fármacos usados para tratar el COVID-19” <u>Schröder, S.</u> ; Ortiz, I.; San Román, M.-F. <i>Universidad de Cantabria (Spain)</i>
ID2600	14:45-15:00	“Paracetamol removal by photo-Fenton catalyzed by pillared clays” <u>Hurtado, L.</u> ; Romero, R.; Mendoza, A.; Avilés, O.; Brewer, S.; Donkor, K.; Gómez-Espinosa, R.M.; Natividad, R. <i>Universidad Iberoamericana Ciudad de México (Mexico)</i>
ID1734	15:00-15:15	“Electrochemical degradation of amoxicillin using IrO ₂ -Ta ₂ O ₅ Ti anodes and carbon cathodes” Yáñez-Ángeles, M.J.; Bacame-Valenzuela, F.J.; Reyes-Vidal, Y.; <u>Bustos, E.</u> <i>Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)</i>
ID1737	15:15-15:30	“Electrochemical degradation of amoxicillin using an electrochemical reactor at pilot-level” Castro, J.A.; López, J.T.; Cárdenas, J.; Rivera, F.F.; <u>Bustos, E.</u> <i>Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)</i>

SESSION 3. OZONE-BASED AOPs

**Chairs: Martin Meichtry, CONICET, Argentina
Reyna Natividad, University Autónoma de México, Mexico**

**Monday, June 5th
Auditorium
“Dr. Francisco Valsecchi”**

ID2621	16:30-16:45	“Evaluation of ozone performance as a control agent for foodborne microorganisms” Manzo, R.M.; Anghilante, M.; Machtey, M.; Russell-White, K.; Lancelle, M.V.; Ciabattari, J.; Risso, J.M.; <u>Lovato, M.E.</u> <i>Instituto de Desarrollo Tecnológico para la Industria Química (UNL-CONICET) (Argentina)</i>
ID2123	16:45-17:00	“Abatement of several bisphenol analogues through ozone, hydroxyl radical and UV radiation” <u>Porcar-Santos, O.</u> ; Cruz-Alcalde, A.; Sans, C. <i>Universitat de Barcelona (Spain)</i>
ID2781	17:00-17:15	“Green production of a bimetallic catalyst Fe-Cu to improve the ozonation of dyed water” <u>Roa-Morales, G.</u> ; Reyes-Pérez, J.A.; Amaya-Chávez, A.; Balderas-Hernández, P. <i>Universidad autónoma del Estado de México (Mexico)</i>
ID1822	17:15-17:30	“Reflector design for the optimization of photoactivated processes” <u>Martín-Sómer, M.</u> ; Moreira, J.; Santos, C.; Gomes A.I.; Marugán J.; Vilar V.J.P. <i>Universidad Rey Juan Carlos (Spain)</i>

SESSION 4. PHOTO-ASSISTED AOPs

**Chairs: Alicia L. Garcia-Costa, Univ. Autónoma de Madrid, Spain
David Contreras, University of Concepción, Chile**

**Monday, June 5th
Auditorium
“Dr. Francisco Valsecchi”**

ID2173	18:30-18:45	“La _{1-x} Ti _x FeO ₃ dual catalyst with combined photocatalytic and photo-CWPO catalytic activity under visible light for water treatment” <u>García-Muñoz, P.</u> ; Fresno, F.; Robert, D.; Keller N. <i>Universidad Politécnica de Madrid (Spain)</i>
ID1449	18:45-19:00	“Hydrogen peroxide dosage strategy for Paracetamol degradation in a ferrioxalate assisted photo-Fenton process” <u>Giménez, B.</u> ; Duarte, S.; Alfano, O.; Conte, L.; Schenone, A. <i>Instituto de Desarrollo Tecnológico para la Industria Química (CONICET-UNL) (Argentina)</i>
ID2706	19:00-19:15	“Microcystin-LR removal by UV/H ₂ O ₂ photolysis: Degradation kinetics and reaction mechanisms” <u>Acevedo-Morantes, M.T.</u> ; Loaiza-González, J.; Casas, J.A.; Peñuela-Mesa, G.; Colina-Márquez, J. <i>Universidad de Cartagena (Colombia)</i>
ID2505	19:15-19:30	“Bisphenol A removal by photochemical processes” Olea, O.; Brewer, S.; Donkor, K.; Amado-Piña, D.; <u>Natividad, R.</u> <i>Autonomous University of the State of Mexico (Mexico)</i>
ID2064	19:30-19:45	“Shrinking-core model for the photo-Fenton oxidation of polystyrene nanoplastics in water” di <u>Luca, C.</u> ; Garcia, J.; Ortiz, D.; Munoz, M.; de Pedro, Z.M.; Casas, J.A. <i>Universidad Autónoma de Madrid (Spain)</i>

SESSION 5. ADVANCES IN PHOTOCATALYSIS

**Chairs: José A. Casas, Univ. Autónoma de Madrid, Spain
Alicia L. Garcia-Costa, Univ. Autónoma de Madrid, Spain**

**Tuesday, June 6th
Auditorium
“Dr. Francisco Valsecchi”**

ID2704 KEYNOTE	9:00-9:30	“Photocatalytic activity of TiO ₂ films over commercial 3D printing polymers” Passalía, C.; <u>Flores, M.</u> ; Dopazo, M.; Labas, M.; Brandi, R. <i>UNL-CONICET (Argentina)</i>
ID2622	9:30-9:45	“Degradation of 4-chlorophenol by photocatalysis with carbon self-doped and iron co-doped TiO ₂ films: radiation absorption properties and performance evaluation in a microreactor” Ochoa Rodríguez, P.A.; Martin, M.V.; Eusebi, A.L.; Eimer, G.A.; Elías, V.R.; <u>Satuf, M.L.</u> <i>Centro de Investigación y Tecnología Química (CITEQ-UTN-CONICET) (Argentina)</i>
ID2540	9:45-10:00	“Heterojunctions of metal oxides of the TiO ₂ /SnO ₂ type: influence of photocatalyst properties on activity” <u>Geovânia, C.A.</u> ; Igor Matheus, A.S.; Mario, R.M.; Simoni, M.P.M. <i>Universidade de São Paulo (Brazil)</i>

ID2137	10:00-10:15	“Tailoring photocatalytic materials for solar-driven oxidation/reduction of contaminants of emerging concern” De la Rosa, F.M.; Popovic, M.; Kovacic, M.; <u>Kusic, H.</u> ; Loncaric Bozic, A. <i>University of Zagreb (Croatia)</i>
ID2690	10:15-10:30	“The selective oxidation of veratryl alcohol towards veratraldehyde production by using BiOI/Bi ₄ Ti ₃ O ₁₂ photocatalyst under simulated sunlight” <u>Murillo-Sierra, J.C.</u> ; Briceño, D.; Romero, R.; Melin, V.; Henriquez, A.; Contreras, D. <i>Universidad de Concepción (Chile)</i>
SESSION 6. COMBINED AOPs		Tuesday, June 6th Auditorium 2
Chairs: Daphne Hermosilla, Universidad Politécnica de Madrid, Spain Marta Litter, CONICET, Argentina		
ID2792 KEYNOTE	14:00-14:30	“Evaluation of a combined process for the removal of emerging pollutants (Sunscreens) using advanced oxidation and ozone” <u>Balderas, P.</u> ; Ayala, S.V.; Roa, G.; Ibañez, J.; Barrera, C.E. <i>UAEMex (Mexico)</i>
ID1936	14:30-14:45	“Operating strategies for combined advanced oxidation processes” Napoleone, S.; Fleite, S.; Doumic, L.; <u>Ayude, M.A.</u> ; Cassanello, M. <i>ITAPROQ–CONICET/FCEyN-UBA (Argentina)</i>
ID1948	14:45-15:00	“AOP’s for cytostatic compounds removal in hospital wastewater” Corpa, C.; Monte, M.C.; <u>Blanco, A.</u> <i>Universidad Complutense de Madrid (Spain)</i>
ID3049	15:00-15:15	“On-site application of continuous non thermal plasma/ photocatalysis process for livestock building air treatment: Chemical pollutants and odors elimination” <u>Bouzaza, A.</u> ; Saoud, W.A.; Belkessa, N.; Assadi, A.A. <i>Ecole Nationale Supérieure de Chimie de Rennes (France)</i>
ID2856	15:15-15:30	“Degradation studies of bisphenol S (BPS) in the presence of persulfate activated by ultrasound: Effect of operating parameters in aqueous medium” Khalid, N.K.; Devadasan, D.; Rayaroth, M.P.; Aravind, U.K.; <u>Aravindakumar, C.T.</u> <i>Mahatma Gandhi University (India)</i>

POSTER SESSION

Tuesday, June 6th (COFFEE AREA) 10:30-11:00 h & 16:00 -16:30 h

ID1274	“Goethite and magnetite modified whit fluorine supported onto biochar to adsorptive-photocatalytic removal of diclofenac and ibuprofen under simulated sunlight irradiation” Alvear-Daza, J.J.; Rengifo-Herrera, J.A.; <u>Pizzio, L.R.</u> <i>National University of La Plata (Argentina)</i>
ID1279	“De-emulsification of bilge water by cupro-Fenton reaction” <u>Inchaurredo, N.S.</u> ; Corti-Monzón, G.; Caracciolo, P.C.; Murialdo S.E. <i>INTEMA/CONICET (Argentina)</i>
ID1294	“Parametric mathematical modelling of 2-chlorophenol electro-oxidation using a flow-by electrochemical reactor equipped with BDD electrodes” Ramos-Hernández, G., <u>Regalado-Méndez, A.</u> ; Natividad, R.; Vizcarrete-Vásquez, D.A.; Cordero, M.E.; Zárate, L.G.; Robles-Gómez, E.E.; Peralta-Reyes, E. <i>Universidad del Mar (Mexico)</i>
ID1320	“Synergetic combination of nano zero-valent iron, ultrasound and carboxylic acids for the removal of aqueous Cr(VI)” Cancelada, L.; <u>Meichtry, J.M.</u> ; Destailats, H.; Litter, M.I. <i>CNEA-CONICET (Argentina)</i>
ID1359	“Aplicación de la ozonización catalítica con catalizadores de TiO ₂ /GAC para el control de los subproductos de desinfección en procesos de potabilización” <u>Ferreiro, C.</u> ; Maña, J.A. <i>CEATA INGENIERIA, S.L. (Spain)</i>
ID1385	“Degradation of diclofenac by UV-B and UV-C LED driven AOPs processes” Pizzichetti, A.R.P.; Pablos, C.; Reynolds, K.; Moore, E.; Stanley, S.; <u>Marugán, J.</u> <i>Universidad Rey Juan Carlos (Spain)</i>
ID1499	“Photoassisted advanced reduction processes for nitrate removal from drinking water” <u>Hahn, V.A.</u> ; Garcia-Costa, A.; Casas, J.A. <i>Universidad Autónoma de Madrid (Spain)</i>
ID1732	“Electrocoagulation coupled to electro-oxidation for the electrochemical treatment of hemodialysis wastewater” González-Nava, V.J.; Bacame-Valenzuela, F.J.; Reyes-Vidal, Y.; Sepúlveda-Guzmán, S.; Manríquez, J.; <u>Bustos, E.</u> <i>Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)</i>

ID1741	<p>“Electrochemical degradation of toluene using TiO₂ nanotubes” Bolaños-Romero, K.V.; Sandoval-González, A.; Oza, G.; Manríquez, J.; <u>Bustos, E.</u> <i>Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)</i></p>
ID1823	<p>“Photoreactor design for removal of CECs in water by UVC-H₂O₂ process” <u>Martín-Sómer, M.</u>; Casado, C.; Marugán, J. <i>Universidad Rey Juan Carlos (Spain)</i></p>
ID1890	<p>“CuO/Al₂O₃ spheres for Fenton-type heterogeneous oxidation of an industrial effluent of chemomechanical pulping” Ivorra, F.D.; <u>Massa, P.A.</u> <i>INTEMA - UNMDP (Argentina)</i></p>
ID2065	<p>“Removal of polystyrene nanoparticles from water by photo-fenton oxidation” García, J.; di Luca, C.; Ortiz, D.; <u>Munoz, M.</u>; Carbajo, J.; de Pedro Z.M.; Casas J.A. <i>Universidad Autónoma de Madrid (Spain)</i></p>
ID2085	<p>“Comparison between electrocoagulation, electrochemical Fenton and Fenton processes for the treatment of dyes” Vera, N.; Enrico, A.; <u>Ferrero, A.</u>; Di Fraia, G.; Sánchez, P.; Marchisio, B.; De Seta, E.G.; Reina, F.D.; Halac, E.B.; Meichtry, J.M. <i>UDB-Química, FRBA-UTN (Argentina)</i></p>
ID2090	<p>“Green synthesized Fe nanoparticles as heterogeneous Fenton catalysts for the degradation of textile dyes” <u>Ferrero, A.</u>; Meichtry, J.M.; De Seta, G.E.; García, F.E.; Senn, A.; Litter, M.I. <i>FRBA-UTN (Argentina)</i></p>
ID2100	<p>“Effect of synthesis protocols in the photo-Fenton activity of Zinc Ferrites for the degradation of Acetaminophen: Photo-Fenton activity of Zinc Ferrites” Thomas, N.; Nair, K.M.; Jimenez, K.; Hermsilla, D.; Gasco, A.; <u>Pillai, S.C.</u> <i>ATU Sligo (Ireland)</i></p>
ID2130	<p>“A simple and effective treatment for the safe discharge of concentrated disinfectant solutions” <u>Doumic, L.D.</u>; Rodríguez, G.; Capano, A.; Ferro Orozco, A.M.; Ayude, M.A. <i>INTEMA (CONICET/UNMDP) (Argentina)</i></p>
ID2140	<p>“Evaluation of the endocrine-disrupting effect of Bisphenol A and analogues: impact of AOPs treatments” <u>Porcar-Santos, O.</u>; Navarro-Martín, L.; Cruz-Alcalde, A.; Casado, M.; Lima, T.; Gual, M.; Sans, C. <i>Universitat de Barcelona (Spain)</i></p>
ID2174	<p>“Photocatalytic activation of peroxymonosulfate using ilmenite (FeTiO₃) as catalyst for Enterococcus sp. inactivation in synthetic wastewater” <u>García-Muñoz, P.</u>; López-Maxías, C.; Guerra-Rodríguez, S.; Carbajo, J.; Casas, J.; Rodríguez-Chueca, J. <i>Universidad Politécnica de Madrid (Spain)</i></p>
ID2198	<p>“Cr(VI) removal with green iron-based nanoparticles” <u>López, I.E.</u>; Neis, E.R.; Scipioni, G.P.; Traid, H.D.; Vera, M.L.; Litter, M.I. <i>Instituto de Materiales de Misiones (IMAM, CONICET - UNaM) (Argentina)</i></p>
ID2338	<p>“Assessing the effect of the type of organic matter source on the properties of biochar-supported iron oxides catalysts and their performance in the photo-Fenton degradation of bio-recalcitrant contaminants in water” Jin, L.; Gasco, A.; Jiménez, K.; de los Ríos, C.; Bahamonde, A.; <u>Hermsilla, D.</u> <i>Universidad Politécnica de Madrid (Spain)</i></p>
ID2372	<p>“Eliminación de nanoplasticos mediante ozonización catalítica” <u>Nieto-Sandoval, J.</u>; Sans, C. <i>Universitat de Barcelona (Spain)</i></p>
ID2390	<p>“Potential applications of plasma activated water” <u>Quintana Terriza, J.L.</u>; García Muñoz, P.; Fernández, C.; Rodríguez Chueca, J. <i>Universidad Politécnica de Madrid (Spain)</i></p>
ID2392	<p>“Environmental impacts of intensification on UV-C light driven AOP systems for the removal of contaminants of emerging concern” <u>Rivero, M.J.</u>; Pelayo, D.; Hernandez-Pellon, A.; Santos, G.; Ortiz, I. <i>Universidad de Cantabria (Spain)</i></p>
ID2394	<p>“Sustainable production of pure silica from rice husk waste for preparation of ordered nanostructured mesoporous silica” Carraro, P.M.; Cuello, N.I.; <u>Benzaquén T. B.</u>; Eimer G. A. <i>CITEQ (UTN-CONICET) (Argentina)</i></p>
ID2420	<p>“New photocatalysts: titanium sponges coated with TiO₂ nanotubes” Dwojak, A.N.; <u>Vera, M.L.</u>; Traid, H.D.; Bucharsky, E.C.; Schell, K.G.; Schvezov, C.E.; Litter, M.I. <i>Instituto de Materiales de Misiones, IMAM (CONICET-UNaM) (Argentina)</i></p>
ID2440	<p>“Preliminary results of photocatalytic Cr(VI) reduction using TiO₂ films grown by cathodic arc deposition: effect of the film thickness and the N-doping” Kleiman, A.; <u>Meichtry, J.M.</u>; Xaubet, M.; Grondona, D.; Litter, M.I.; Márquez, A. <i>Universidad de Buenos Aires (Argentina)</i></p>
ID2485	<p>“Degradation of 2-chlorophenol with different radiation sources, using modified mesoporous titania” <u>Ochoa Rodríguez, P.A.</u>; Vaschetto, E.G.; Eimer, G.A.; Elías, V.R. <i>CITeQ (UTN CONICET) (Argentina)</i></p>

ID2495	<p>“Comparison of synthesis methodologies to prepare more sustainable and stable catalysts for their application in agrochemical degradation processes. A metal speciation study” <u>Vaschetto, E.G.</u>; Ochoa Rodríguez, P.A.; Carraro, P.M.; Pérez-Pariente, J.; Eimer, G.A. <i>CITeQ (UTN CONICET) (Argentina)</i></p>
ID2583	<p>“Stable emulsion sepiolite-titania hybrid catalysts for pesticides-containing wastewater photodegradation” Palomo, E.; López-Esteban, S.; Pecharromán, C.; Esteban-Cubillo, A.; <u>Hermosilla, D.</u>; Gascó, A.; Bahamonde, A. <i>Universidad Politécnica de Madrid (Spain)</i></p>
ID2602	<p>“Oxidative depolymerization of Kraft lignin by self-amplified Fenton reaction” Méndez C.; Melín, V.; Romero, R.; <u>Contreras, D.</u> <i>Universidad de Concepción (Chile)</i></p>
ID2607	<p>“A reactor with a packed bed anode assembly for studying electro-oxidation processes” <u>Silva Barni, M.F.</u>; Rodríguez, C.; Procaccini, R.; Ayude, M.A. <i>INTEMA, UNMDP (Argentina)</i></p>
ID2623	<p>“Aplicación del modelado molecular en ingeniería química: Evaluación de la cinética de degradación de la amoxicilina mediante el P.O.A. foto Fenton” <u>Carrillo Hernández, M.A.</u>; Hideki Hirota, W. <i>Universidad Nacional Mayor de San Marcos (Peru)</i></p>
ID2635	<p>“Radiation modeling and degradation kinetics of a contaminant of emerging concern in packed-bed photocatalytic reactors” Manassero, A.; Alfano, O.M.; <u>Satuf, M.L.</u> <i>INTEC (Universidad Nacional del Litoral – CONICET) (Argentina)</i></p>
ID2696	<p>“Photo-Fenton-like process with visible LEDs as radiation source for the removal of micropollutants in water” Basin, V.; Torrano, A.; Pérez, C.; Durand, S.; Salinas, H.; <u>De León, A.</u> <i>Universidad de la República (Uruguay)</i></p>
ID2702	<p>“Porous titanium dioxide doped with Ag and Fe prepared by plasma electrolytic oxidation. Photocatalytic enhancement of Cr(VI) reduction” <u>Traid, H.D.</u>; Vera, M.L.; Zampieri, G.E.; Litter, M.I. <i>Instituto de Materiales de Misiones, Universidad Nacional de Misiones - CONICET (Argentina)</i></p>
ID2707	<p>“Proposal for the insertion of advanced oxidation processes in wastewater treatment plants” <u>Serrano-Campos, P.I.</u>; Ramírez-Sánchez, J.; Maldonado, S.; Rodríguez-Peña, M.; Balderas-Hernández, P.; Roa-Morales, G. <i>Universidad Autónoma del Estado de México (Mexico)</i></p>
ID2708	<p>“Operational variables of technological interest in the application of the Fenton process to leachate treatment” <u>Traid, H.D.</u>; Vera, M.L.; Silva, C.G.; Dwojak, A.N.; López, I.E.; Litter, M.I. <i>Instituto de Materiales de Misiones, Universidad Nacional de Misiones - CONICET (Argentina)</i></p>
ID2735	<p>“The mineralization of metformin by heterogeneous photo-Fenton: heterogeneous photo-Fenton” <u>Amado-Piña, D.</u>; Romero, R.; Natividad, R. <i>Centro Conjunto en Química Sustentable UAEMEX-UNAM (Mexico)</i></p>
ID2771	<p>“Degradation of metronidazole in a batch reactor system employing BDD electrodes” <u>Maldonado, S.</u>; Roa, G.; Natividad, R.; Balderas, P.; Barrera, C.; Amado, D. <i>Universidad Autónoma de Estado de México (Mexico)</i></p>
ID2931	<p>“Arsenic photo-assisted oxidation and sequential adsorption using natural iron minerals” García-Costa, A. L.; <u>Casas, J.A.</u> <i>Universidad Autónoma de Madrid (Spain)</i></p>



Coordinators

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