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P0318	A simple and rapid one-time method to evaluate methane and carbon dioxide content in biogas	D. Bassard, L. Andre, N. Dotal, L. Valentin, M. Nonus, A. Paus, T. Ribeiro
P0319	Early prediction of Biochemical Methane Potential (BMP) based on real-time modelling of Automatic Methane Potential Test System II (AMPTS II) data	S. Strömberg, M. Nistor, J. Liu
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P0321	Optimization of a hydrogen production bioreactor using computational fluid dynamic (CFD) techniques	G. Z. Maurina, L. M. Rosa, L. L. Beal, C. Baldasso, L. Pederiva, A. P. Torres
P0322	Towards Advanced Control for Anaerobic Digesters: Sludge Inventory Optimisation Simulation Study	G. Opong, M. McEwan, E. B. Martin Obe, G. A. Montague

P0323	The MultiSens Concept - lanced-based multiposition monitoring and sampling for an improved flexibility of biogas plant operation	E. Kielhorn, M. Fenske, C. Hälsig, A. Hörig, P. Neubauer, S. Päßler, W. Vonau, S. Junne
P0324	Performance evaluation of mixing systems in a model anaerobic digester	S. C. Low, R. Parthasarathy, P. Slatter, N. Eshtiaghi
P0325	Modeling and control of a pilot anaerobic digestion reactor	F. Haugen, R. Bakke, B. Lie
P0326	The indication of anaerobic acidification progress by ORP	L. Ding, W. J. Lu, M. C. Zhu, Y. X. Zhao
P0327	Anaerobic digestion of sewage sludge: BMP test and macromolecular characterization for IWA ADM1 application	V. Cabbai, M. Ballico, D. Goi
P0328	Dissolved hydrogen concentration as a control parameter for on-line monitoring of an anaerobic degradation process	M. Nistor, E. Wojciuk, J. Liu
P0329	Simulation of anaerobic fixed bed reactors using high Peclet number values	G. T. Correia, W. H. Kwong
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P0331	A comparative study for Biochemical Methane Potential (BMP) test in both manual and automated apparatuses	B. Wang, I. A. Nges, M. Nistor, J. Liu
P0332	Simulation of anaerobic co-digesters performance treating winery waste and waste activated sludge	I. Rodríguez-Verde, S. García-Gen, F. Fiorotto, D. Bolzonella, J. Rodríguez, M. Carballa, J. M. Lema
P0333	Control and automation of anaerobic digestion plants based on real-time measurement of VFA profile: the AD-WISE project	G.M. Silvestre Tormo, L. Cervera Olagüe, J. Knobbe, H. Grüger, M.B. Ruiz Fuertes
P0334	Modelling of pH and biological hydrogen production during glucose dark fermentation	G. Baquerizo, E.I. Garcia-Peña
P0335	Computational fluid dynamics modelling of hydrodynamic flow behaviour inside anaerobic digester tank	J. Climent, S. Chiva, B. Julian-Lopez, N. Portes, C. Ferrer, I. Pastor, J.G. Berlanga Clavijo, J.M. Santos, J.L. Martinez
P0336	Role of Lactate in biogas production and evaluation of its importance in Anaerobic Digestion Model 1(ADM1)	A. Borchert, E. Siefert, P. Satpathy, S. Steinigeweg
P0337	Decision making support for the development of collective biogas plants using a GIS-based approach	T. Bioteau, O. Tretyakov, F. Boret, F. Béline, M. Balynska, F. Laurent, R. Girault
P0338	Modelling and parameter estimation of a two-stage anaerobic digestion system for the treatment of tequila vinasses	C. E. Robles-Rodríguez, V. Alcaraz-Gonzalez, J. P. García-Sandoval, V. González-Álvarez, H. O. Méndez-Acosta

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P0404	Effect of different seed sources on UASB reactor performance treating chicken manure at ambient temperature	C. Yangin-Gomec, F. Yilmaz, C. Gulumser
P0405	The use of limestone as a buffer agent for the anaerobic digestion of rapidly acidifying wastewaters	M. L. Serejo, G. F. Souza, E. L. Formagini, M. A. Boncz, P. L. Paulo
P0406	Using carbon dioxide to increase biogas production in anaerobic digestion	Y. Bajón Fernández, E. McAdam, A. Soares, P. Vale, E. Cartmell
P0407	Anaerobic disintegration of agro-industrial organic waste. Reliability of parameters identification	A. Rodríguez-Abalde, Z. J. Zonta, B. Fernández, X. Flotats
P0408	Using a radioactive ¹⁴ C tracer for the determination of methanogenesis pathway in food waste anaerobic digesters	Y. Jiang, C. J. Banks, Y. Zhang, S. Heaven
P0409	Compositional changes in swine manure fibers treated with aqueous ammonia soaking (AAS) resulting in increased methane potential	E. Jurado, M. A.T. Hansen, H. N. Gavala, I. V. Skiadas
P0410	Characterization of the anaerobic digestion of proteins containing animal by-products, using simultaneous batch experiments	X. Flotats, B. Fernández, J. Palatsi
P0411	Effect of mixing speed on lab-scale anaerobic digester stability and biogas production	R. Sindall, J. Bridgeman, C. Carliell-Marquet
P0412	Methanogenic synergisms research during co-digestion of agro-industrial residues by mixture designs methodology	D. Bassard, M. Nonus, A. Paus, E. Delacour, M. Viaut, T. Ribeiro
P0413	Effect of trace elements supplementation on the mesophilic anaerobic digestion of food waste in continuous conditions	V. Facchin, L. Zanetti, F. Cecchi, D. Bolzonella
P0414	Identification of proteins produced during anaerobic degradation of glucose in bench scale UASB reactors	J. A. Zorel, S. F. Aquino, W. Castro-Borges, S.Q. Silva
P0415	Use of specific methanogenic activity test for evaluation of wastewater bioinsecticide treatability	D. L. Kist, V. Trevisan, D. A. Silveira, M. C. A. Silva, L. O. Monteggia
P0416	A new tool to predict the methane potential of solid organic waste co-digestion	M. Esteban-Gutiérrez, E. Aymerich
P0417	Experiment design for the anaerobic co-digestion of liquid dairy manure and cheese whey in batch tests	N. Muñoz, C. Rico, J. L. Rico, J. Fernández, J. Renedo
P0418	Micro nutrients in anaerobic digestion of acetate; focusing on Cobalt (Co ²⁺)	G. Ditalelo, F. Ishaq, C. Carliell-Marquet
P0419	Trace element supplementation in wastewater sludge digesters and electricity production	F. Ishaq, C. Carliell-Marquet, P. Vale
P0420	Influencing factors on mechanical strength of anaerobic granules	Y. H. Liu, L. Zhao, S. C. Yang, Y. L. He
P0421	Statistical and experimental approaches for fast prediction of the anaerobic biogas potential (ABP) using biochemical properties of heterogeneous materials	A. A. Mansour, A. Ponthieux, J. A. Cacho Rivero
P0422	Answering the Case for Optimum Mesophilic Reaction Temperature	E. C. Ogbonna, R. Ali

P0423	Fast Prediction of Biochemical Methane Potential of Varied Matrices by Near Infra-Red Spectroscopy	A. Boulanger, A. Ponthieux, C. Laroche, M. Lesteur, S. Preys, S. Roussel, R. Treguer, M. Poitrenaud, J.A. Cacho Rivero
P0424	An innovative method to evaluate biogas process performance by studying daily biogas kinetics in semi-continuously fed reactors	E. Nordell, J. Moestedt, L. Wiberg
P0425	The importance of complex nutrient solution in Biochemical Methane Potential tests to achieve more reliable results	S. Nilsson Påledal, J. Moestedt, E. Nordell
P0426	Development of a quick method for detection of specific activity in anaerobic fermenters by Impedance Analysis	P. Patnaik, P. Stopp, D. Weichgrebe, K.H. Rosenwinkel
P0427	The speciation and dynamics of Fe, Ni and Co supplemented to stillage-fed semi continuous stirred tank biogas reactors	S. Shakeri Yekta, A. Lindmark, A. Björn, B.H. Svensson
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P0429	A. S. Goffi, A. C. Ribeiro, E. C Baettker, C. Kreutz, K. Q. Carvalho, F. H. Passig	A. dos S. Goffi, A. C. Ribeiro, E. C Baettker, C. Kreutz, K. Q. Carvalho, F. H. Passig
P0430	Excitation-Emission Matrix Fluorescence of an UASB-activated sludge treatment system	S. Ventura-Cruz, M. Esparza-Soto
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P0432	Characteristics on the hydrodynamic behaviour on Anaerobic-aerobic fixed bed reactor	A. S. Goffi, J. O. Costa, E. C. Baettker, C. Kreutz, K. Q. Carvalho, F. H. Passig
P0433	Generalised acid-base calculation method for aqueous systems	R. González-Cabaleiro, J. M. Lema, J. Rodríguez
P0434	Results of an Italian Interlaboratory Study on Biochemical Methane Potential	I. Porqueddu, E. Ficara, L. Alibardi, D. Bona, A. Brina, P. S. Calabrò, E. Casaletta, C. Cavinato, D. Daffonchio, G. De Gioannis, C. Fabbri, V. Facchin, S. Marini, G. Menin, L. Petta, F. Pirozzi, A. Primante, M. A. Rosato, B. Ruffino, E. Trulli, F. Malpei
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P0503	Effect of long-chain fatty acids (LCFA) on the prevalence and viability of hydrogenotrophic methanogens	D.Z. Sousa, A.F. Salvador, J. Ramos, A.P. Guedes, S. Barbosa, A.J.M. Stams, M.M. Alves, M.A.Pereira
P0504	Application of organic flocculants and coagulants for enhanced primary treatment and its effect on primary sludge digestion	G. Kooijman, M. K. De Kreuk, J. B. Van Lier
P0505	Immobilization of the redox mediator riboflavin onto cellulose for anaerobic degradation of azo dyes	L. R. Martins, B. E. L. Baêta, S.F. Aquino, L.V.A. Gurgel, L.F. Gil
P0506	Effect of hydraulic retention time, recirculation and co-substrate concentration on anaerobic BTEX removal	P. I. M. Firmino, R. S. Farias, P. M. Carneiro, A. N. Barros, M. C. Costa, E. Rodríguez, A. C. Lopes, A. B. dos Santos
P0507	Integrated anaerobic and aerobic biological reactors for the removal of 2,4,6-trichlorophenol from water	S. Sanchis, V. M. Monsalvo, D. Puyol, J. J. Rodriguez, A. F. Mohedano
P0508	Anaerobic biodegradation of aniline under different electron accepting conditions	P. K. Mondal, L. Pereira, M. Alves
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P0510	BTEX removal in anaerobic bioreactors under methanogenic, denitrifying and sulfidogenic conditions	P. M. Carneiro, P. I. M. Firmino, R. S. Farias, A. N. Barros, M. C. Costa, E. Rodríguez, A. C. Lopes, A. B. dos Santos
P0511	Anaerobic Digestion Tolerance to Ammonia after the Biothelys® Thermal Treatment	F. Vedrenne, V. Gonzalez, D. Nawawi-Lansade, J. A. Cacho Rivero
P0512	Long term tolerance of chicken manure mesophilic methane fermentation to high ammonia load and inhibited reactor recovery	Q. Niu, W. Qiao, T. Hojo, Y. Y. Li
P0513	Growing concentrations of phenol increasingly modify microbial communities' dynamics and performances' stability of anaerobic digesters	O. Chapleur, R. Civade, C. Hoyos-Hernandez, L. Mazéas, T. Bouchez
P0514	Anaerobic degradation of alkylbenzene linear sulphonate from commercial laundry wastewater in a fluidized bed reactor	J. K. Braga, F. Motteran, I. K. Sakamoto, E. L. Silva, M. B. A. Varesche
P0515	Bioaugmentation of an acetate-oxidising anaerobic consortium in up-flow sludge blanket reactor subjected to high ammonia loads	I. A. Fotidis, D. B. Karakashev, I. Angelidaki
P0516	Investigating Routine Bioaugmentation for Improved Anaerobic Digestion of a Cellulosic Waste	A. D. Martín-Ryals, L. C. Schideman
P0517	The effects of Fe ₂ O ₃ and Ag nanoparticles on waste activated sludge anaerobic digestion	E. Kökdemir Ünşar, N. A. Perendeci
P0518	Anaerobic biodegradation of 13C6-phenol: Analysis of bacteria population involved in two different degradation kinetics	C. Hoyos-Hernandez, I. Limam, E. Desmond, T. Bouchez, L. Mazeas
P0519	Anaerobic co-digestion synergistically affects micropollutant degradation and methane production in municipal digesters	J. Kusowski, M. Seib, P. McNamara, S. Graziano, D. H. Zitomer
P0520	Factors enhancing the anaerobic degradation of LAS	L. F. C. Souza, S. Gavazza, L.Florencio, M. T. Kato
P0521	The role of co-substrates in powder detergent removal and microbial diversity in anaerobic fluidized bed reactor	F. V. Ferreira, T. Z. Macedo, I. K. Sakamoto, E. L. Silva, M. B. A. Varesche
P0522	Evaluation of the potential inhibitor Ceftiofur, Oxytetracycline, Penicillin G and Florfenicol, during hydrolytic acidogenic and methanogenic stage	D. C. Rodríguez Loaiza, A. Londoño, G. Peñuela

P0523	Removal of anionic surfactant in laundry wastewater in EGSB reactor: effect of biomass adaptation	T. P. Delforno, A. G. L. de Moura, D.Y. Okada, M. B. A. Varesche
P0524	Evaluating polychlorinated biphenyl degradation in the presence of anaerobic microbial consortium in different conditions	B.C. Gomes, M.A.T. Adorno, M.R.L. Silva, M.B.A. Varesche
P0525	Biodegradation and detoxification of Acid Blue 74: Study of an alternative secondary treatment to improve the enzymatic decolourization	J. E. Méndez, F. Ramírez, M. M. Solís, A. Solís, A. S. Sobrino, O. Loera
P0527	BIOMAN “Economically efficient biogas production from manure fibres and straw”	H. Uellendahl, L. Ottosen, B. Ruiz, C. Kragelund
P0529	Removal of anionic surfactant in sequencing batch reactor operated in denitrifying conditions using river’s sediments as inoculum	I.C.S. Duarte, P. França, P.F. Prado, D.Y. Okada, M.B.A. Varesche
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P0532	Further evidence of biodegradability of the POP chlordecone under methanogenic conditions	H. Macarie, Y. Labrousse, I. Sastre-Conde, S. Bristeau, C. Mouvet
P0533	Monitoring of two EGSB reactors under applied loads of oxytetracycline and florfenicol	Y. A. Londoño, D. C. Rodríguez, G. Peñuela Mesa
P0534	Remainder chronic toxicity from organic biodegradation compounds contained in Kraft pulp mills effluents	M. Jarpa, D. Lopez, O. Rozas, C. Baeza, H. D. Mansilla, G. Vidal
P0535	Multivariate Experimental Designs for Optimizing Anaerobic Azo Dye Degradation	D. R. S. Lima, B. E. L. Baêta, S. Q. Silva, G. A. Sousa, S. F. Aquino
P0536	Effect of Ester Compounds on Biogas Production: Inhibitors or Booster?	Heriyanti, R. Wikandari, R. Millati, C. Niklasson, M. J. Taherdzadeh
P0537	Determination of anaerobic biodegradation of poly(vinyl alcohol) in batch tests	Y. Rodríguez, J. Procházka, L. Procházková, J. Bartáček, J. M. Rodríguez-Maroto
P0538	Anaerobic Microbial Behaviour and TPH degradation in soil contaminated with ethanol-blended gasoline	D. G. Ferreira, S. J. Baptista, D. D. de Carvalho, E. F. C. Sérvulo

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P0603	Does the addition of a commercial bacterial formulation impact the microbial community of methanogenic reactors?	A. Cabezas, P. Bovio, C. Etchebehere
P0604	Psychrophilic microbial communities; who wins the competition and dominance for successful low temperature anaerobic wastewater treatment?	E. Petropoulos, J. Dolfing, E. Bowen, R. Davenport, T. Curtis
P0605	Digital image analysis of total cells and methanogens in anaerobic digesters to serve as fingerprint and indicator	P. Scherer, Y. S. Kim, L. Neumann
P0606	Changes in the microbial community in two full scale methanogenic UASB for dairy wastewater in different feeding operation modes	C. Callejas, P. Bovio, A. Fernández, M. Passeggi, C. Etchebehere, L. Borzacconi
P0607	Key microbial populations related to process failure due to temperature drop and organic overload in anaerobic co-digesters	L. Regueiro, M. Carballa, J. M. Lema
P0608	Bacterial diversity in anaerobic enrichments degrading sodium lauryl ether sulphate	Ana M.S. Paulo, R. Aydin, C.M. Plugge, P.A. García-Encina, A.J.M. Stams
P0609	Stability and structure of different microbial communities during dark fermentation of glucose	J. R. Bastidas-Oyanedel, R. Kumaraswamy, J. Rodríguez
P0610	Phylogenetic characterization of biofilm from anaerobic fixed bed reactor fed with askarel	M. R. de L. Silva, R. C. Correa, I. K. Sakamoto, M. B. A. Varesche
P0611	Pyrosequencing reveals syntrophic interactions of microbial community in microbial fuel cells fed with food wastes	J. Jia, Y. Tang, N. Ren, D. Xing
P0612	Exploring synergism between anaerobic mesophilic and aerobic hyperthermophilic populations for an increased sludge biodegradation	C. Dumas, S. Perez, E. Paul, X. Lefebvre
P0613	Microbial community shifts associated to the methanization of cellulosic waste with distinct properties	N. Badalato, N. Pourette, L. Mazéas, T. Bouchez, A. Bize
P0614	Microbial resource management as a tool to compare different technologies in hydrogen producing reactors	E. Castelló, C. Etchebehere, L. Borzacconi
P0615	Molecular Assessment of Bacterial Communities of Sludge from a Bench-Scale Reactor Treating Wastewater in Simultaneous Biological Removal of Nitrate and Sulfide	D. F. Fonseca, T. S. O. Souza, M. L. Figueroa, J. M. Lema, E. Foresti
P0616	Diversity of anaerobic bacterial communities in natural environment	S. I. Maintinguer, I. K. Sakamoto, M. A. T. Adorno, M. B. A. Varesche
P0617	Impact of changes in substrate composition on the microbial ecology of a biogas digester fed with energy crop using FISH technique	L. Neumann, B. Demirel, P. Scherer
P0618	Microbial community dynamics in mesophilic anaerobic reactors exposed to overfeeding	X. Goux, M. Calusinska, S. Lemaigre, S. Legay, M. Klocke, E. Benizri, P. Delfosse
P0619	Characterization of microbial communities in horizontal-flow anaerobic immobilized biomass (HAIB) reactor used to treat wastewater from unbleached pulp plant	I. K. Sakamoto, A. P. Buzzini, E. C. Pires, M. B. Varesche
P0620	Transcriptomic and proteomic adaptation of <i>Clostridium butyricum</i> CWBI 1009 to fermentative hydrogen production	M. Calusinska, C. Hamilton, G. Mathy, P. Monsieur, N. Leys, F. Franck, B. Joris, P. Thonart, A. Wilmotte

P0621	Shifts in microbial community structure at Co and Ni nutrient deficiency in biogas tank reactors digesting grain stillage	J. Gustavsson, C. Sundberg, W. A. Al-Soud, B. H. Svensson, J. Ejlertsson, A. Karlsson
P0622	A glimpse of the cellulose degrading community in anaerobic digesters	L. Sun, T. Liu, A. Schnürer
P0623	Characterization of the microbial community from two UASB reactors treating laundry wastewater using 454 pyrosequencing	D. Y. Okada, T. P. Delforno, C. Etchebehere, M. B. A. Varesche
P0624	Investigation of the effect of the substrate feeding on methanogenic activity in biogas reactors by a combined molecular and stable isotope approach	Z. Lv, A. F. Leite, H. Harms, H. H. Richnow, M. Nikolausz
P0625	Enrichment and molecular analysis of denitrifying anaerobic methane oxidizing microorganisms using continuous and batch cultures	M. Hatamoto, M. Koizumi, T. Sato, M. Kimura, M. Takahashi, S. Kawakami, T. Yamaguchi
P0626	Hydrogen production by <i>Clostridium</i> strains at mesophilic condition	C. Z. Lazaro, C. Etchebehere, M.B.A. Varesche
P0627	Consortium of bacteria producing hydrogen from low sugars concentration	R. Pachiega, R. Sequinel, E. Pozzi, M. B. A. Varesche, J.E. Oliveira, S. I. Maintinguer
P0628	Microbial community from an anoxic chamber accessed by pyrosequencing technique	F. T. Saia, T. S. O. Souza, R. Duarte, E. Pozzi, E. Foresti
P0630	Seasonal monitoring of three full-scale sludge digesters: linking bacterial community structure with system performance	S. G. Shin, W. Kim, K. Cho, G. Han, G. Collins, S. Hwang
P0631	ProFuelDB: an open-access database of physiological properties of biofuel-producing anaerobic prokaryotes	C. P. Lourenço, M. A. Pereira, A. Lourenço, D. Z. Sousa
P0632	Adaptive evolution strategy—enhancing fermentative biohydrogen production via anaerobic mixed culture	Z. X. Huang, X. B. Yu, Y. Li, J. Chen, W. Q. Ruan
P0633	Optimization of PCR-DGGE Map on Anaerobic Granules	Y.H. Liu, N.Wang, X.S. Xu, F.L Sun, Y.L. He
P0634	Sustainable production of second generation biofuels from municipal solid waste in Abu Dhabi	A. Sowunmi, J.E. Schmidt, J.R. Bastidas-Oyanedel
P0635	Monitoring and analysis of the β -lactamases ESBLs in anaerobic and aerobic reactors	D. C. Rodríguez, Z. Shaikh, G. Peñuela, D. W. Graham
P0636	Dominating pathway for methanogenesis from acetate - impact on VFA degradation and microbiology	L. Levén, M. Westerholm, A. Schnürer
P0637	Archaeal community dynamics and abiotic characteristics in a mesophilic anaerobic co-digestion process of agro-industrial waste sludge with fresh artichoke waste	M. Ros, I. H. Franke-Whittle, R. Macias, A.B. Morales, H. Insam, M. Ayuso, J.A. Pascual

Section 0700 - Sewage treatment - Sanitation in developing countries - Decentralised treatment

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P0702	Operational aspects of an anaerobic wastewater treatment plant treating domestic sewage	J. C. Morais, S. Gavazza, L. Florencio, M. T. Kato
P0703	Anaerobic digestion of black water with various co-substrates in eudiometer scale at different loading rates in the frame of resource oriented sanitation concepts	K. Mouarkech, A. K. P. Pera, H. Steinmetz
P0704	Immobilized anaerobic biomass for improving wastewater treatment systems	I. Sabbah, N. Massalha, A. Saliba, M. Hussien
P0705	The AquaNova concept - Anaerobic digestion and phytotreatment for integrated management of source separated wastewater and organic waste	L. Alibardi, R. Cossu, M. C. Lavagnolo
P0706	Understanding Fouling Reduction in the Staged Anaerobic Fluidized Membrane Bioreactor for Low-Strength Wastewater Treatment	J.H. Kim, R. K. Lee, J. H. Bae, P. L. McCarty
P0707	Comparison of the behaviour of a UASB reactor inoculated with granular and flocculent sludge treating sanitary sewage	K. Q. Carvalho, R. C. Ferreira, G. S. Gasparini, A. Nagalli, F. H. Passig
P0708	Analysis of hydrodynamic and hydraulic behaviour in bench scale UASB reactors in different conditions	A. Y. Hattori, F. B. Freire, F. H. Passig, C. Kreutz, K. Q. Carvalho
P0709	Upflow anaerobic immobilized biomass reactor treating hospital wastewater	E. A. Angel, M. B. Espinosa, T. R. Chaparro
P0710	Anaerobic treatment of municipal wastewater using UASB reactors	M. Fernández, E. Lara, F. Rogalla
P0711	Anaerobic Treatment of Municipal Wastewater in Continental Climate Using Regenerative Preheating	A. Klasinc, N. Novak, G. D. Zupančič
P0712	Anaerobic treatment of domestic sewage in compartmented reactor (UASB + anaerobic filter)	I. N. Henrique, J. T. Sousa, W. S. Lopes, V. D. Leite
P0713	Treatment of domestic sewage in compact reactor: UASB following anaerobic filter and intermittent sand filter	C. C. Andrade, J. T. Sousa, I. N. Henrique, V. D. Leite, W. S. Lopes
P0714	Garbage Capped Anaerobic Digester (GcAD) - Decentralized compact anaerobic digestion system using septic tank mechanism	J. Tsubota, H. Nakanishi, D. Ohmori, N. Kadoya

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P0802	Evaluation of the effect of dilution factor and hydraulic retention time on the treatment of textile effluents in submerged anaerobic membrane bioreactors	B. E. L. Baêta, A. Melo, S. F. Aquino
P0803	Effect of Weak Liquor Addition in Methane Fermentation Treatment of Vacuum Evaporator Condensates from Kraft Pulp Mill	K. Kamachi, Y. Tsukamoto
P0804	Xylose and sugarcane bagasse hydrolysate as carbon source for a continuous anaerobic acidogenic bioreactor with fixed-bed	W. K. Moreira, G. Mockaitis, G. Peixoto, D. M. F. Lima, I. Polikarpov, M. Zaiat
P0805	Behavior of biomass in UASB reactor processing vinasse from ethanol distillery	A. Y. T. Brown, V. C. Rocha, M. H. R. Z. Damianovic, E. Pozzi, V. Del Nery, E. C. Pires
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P0825	Utilization of nutrients extracted from plant biomass in thermophilic L-lactic acid fermentation	S. Akao, H. Nagare, M. Maeda, Y. Hosoi, T. Fujiwara
P0826	Winery Wastewater Treatment by Anaerobic Digestion: preliminary results in the ambit of "AD-WINE" Project	I. De Michelis, A. Torres, F. Teixeira, A. Rodríguez, D. Weichgrebe, D. Spera, J. Rochard, G. Montague, E. Huete
P0827	Anaerobic bioreactor with a fixed-structured bed (ABFSB) for complex and sulphate-rich wastewater processing	G. Mockaitis, P. R. Camiloti, J. A. D. Rodrigues, M. H. R. Z. Damianovic, E. Foresti, M. Zaiat
P0828	Operating characteristic of UASB degradating acetic acid, propionic acid and ethanol at ultra-high loading rate	M. Y. Zheng, M. X. Zheng, K. J. Wang
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P0830	Comparison between intermittent and continuous operation for dairy wastewaters treatment in full-scale UASB reactors	A. Fernandez, M. Passeggi, L. Borzacconi
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P0836	Anaerobic digestion of alkaline bleaching wastewater from a Kraft pulp and paper mill	M. Larsson, X. B. Truong, D. Bastviken, A. Björn, J. Ejlertsson, B. H. Svensson, A. Karlsson
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Treatment of Packaging Wastewater using an Expanded Granular Sludge Bed Reactor (EGSB) under Ambient Temperature

C. Lafita, J.M. Peña-roja, C. Gabaldón

Section 0900 - Innovative technologies - Anaerobic Membrane Bioreactors - Full-scale implementation

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P0902	Anaerobic membrane bioreactor treatment of domestic wastewater: biological and membrane performance at different temperatures, hydraulic retention times, and organic loading rates	P. Tontcheva, S. Smith, J. Ho, J. Patamasank, G. Kim, H. Roh
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P0905	Wastewater treatment using a novel single-chamber membrane-less microbial fuel cell	A. I. Tremouli, Z. N. Nikiforaki, E. Diakatou, G. K. Lyberatos
P0906	Comparison of mesophilic and thermophilic digestion in a novel upflow sludge anaerobic digester	J. Wu, Z. P. Cao, Z. H. Li, Y. Jiang
P0907	Feed strategies for ASBR and AnSBBR: a mini review	G. Lovato, J. A. D. Rodrigues, S. M. Ratusznei, M. Zaiat, E. Foresti
P0908	Magnetic biomass retention	P. Ramm, E. Neitmann, U. Sohling, J. Mumme
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P0910	Treatment performance of synthetic municipal wastewater by submerged anaerobic membrane bioreactor (SAMBR)	R. Watanabe, T. Sunaba, S. Takahashi, S. Wakahara, Y. Y. Li
P0911	Operational study of an integrated anaerobic-aerobic-anoxic reactor for wastewater treatment	R. Plascencia-Jatomea, J. Gómez, O. Monroy
P0912	Hydrogen Production and Biofilm Bacterial Diversity in Microbial Electrolysis Cells Fed with a Mixture of Acetic and Propionic Acids	V. Ruiz, R. Krajmalnik-Brown, G. Buitrón
P0913	Evaluate of the concentric cylinders UASB compartmented reactor start up	C. M. Sato, T. Matsumoto, Y. Hirai
P0914	Comparison of Microbial Fuel Cell performance using different electrode materials as anode and different inocula	I. J. López-Prieto, V. Ruiz, B. Cercado, L. F. Cházaro, E. Razo, G. Buitrón
P0915	Energy balance of a submerged anaerobic MBRs (SANMBRs) treating urban wastewater at psychrophilic temperature conditions	R. Pretel, A. Robles, M. V. Ruano, A. Seco, J. Ferrer
P0916	Denitrification process performance in UASB reactors using natural zeolites	S. Montalvo, L. Guerrero, M. Robles
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P0918	Nitrogen dynamics in a continuous-feed two-chamber microbial fuel cell (MFC)	A. Sotres, M. Cerrillo, M. Viñas, A. Bonmatí
P0919	Benefits of using carbon fiber fabric in anaerobic digestion of organic solid wastes	M. Morita, K. Sasaki, D. Sasaki, A. Watanabe, N. Ohmura
P0920	Development of innovative anaerobic reactor for irregularly loaded wastewater treatment plants	D. Vinklárková, K. Plotěný, S. Piños, M. Plotěný, O. Škorvan
P0921	Sulfate and thiosulfate reduction in a gas lift bioreactor operated at pH 9 and 1.5 M Na ⁺ with hydrogen as electron donor	J. A. B. Sousa, M. F. M. Bijmans, C. M. Plugge, A. J. M. Stams
P0923	Biological organic matter removal and sulfate reduction from sulfate-rich wastewater in horizontal-flow anaerobic immobilized biomass reactor (HAIB)	R. S. Vilela, M. H. R. Z. Damianovic, E. Foresti

P0924	Effect of codigestion of pig manure and industrial wastes over methanogenic activity in industrial scale plants	B. Fernández, L. Tey, J. Palatsi, E. Ruestes, M. Torres
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P0928	Thermophilic anaerobic digestion at short retention time and high loading rate of cow manure in a full-scale biogas plant	P. Scherer, S. Antonczyk, Y. Kim, N. Scharfenberg, C. Rösner, R. Arthur, S. Off
P0929	Survey of Causes and Prevention/Control of Anaerobic Digester Foaming in the USA	B. Subramanian, K. Pagilla, D. Wold, P. Pitt
P0930	Application of a two-phase anaerobic digestion process for energy valorisation of cheese whey wastewater on full scale	C. Alexandridis, N. Giantsiou, A. Alexandridis, K. Stamatelatou
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P0935	Use of flocculants for controlling particle deposition in anaerobic membrane bioreactors	H. Díaz, L. Azócar, A. Torres, D. Jeison
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P1002	Denitrification of wastewater in an MBR system using dissolved methane from a methanogenic pre-treatment	A. Sánchez, L. Rodríguez-Hernández, D. Buntner, J. M. Garrido
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P1004	Development of one step autotrophic nitrogen removal process for the treatment of digester effluent supernatant	J. Lin, J. Zuo, W. Xing, J. Zhao, P. Li, K. Wang
P1005	Acid fermentation of manure and maize silage to support nitrogen removal of anaerobic supernatant: temperature and hydraulic retention time effect	C. Da Ros, C. Cavinato, N. Frison, P. Pavan, D. Bolzonella
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P1007	Effect of influent N_{ammon} concentration on NOB activity in SBBR reactors at low temperature	V. Kouba, M. Catrysse, I. Jonatova, J. Hejnic, H. Stryjova, P. Svehla, E. Volcke, J. Bartacek
P1008	Kinetics of struvite precipitation with a low cost magnesium product	D. Crutchik, J. M. Garrido
P1009	Inhibitory effect of sulfide on the biological nitrite oxidation process	D. I. Bejarano, S. Huerta Ochoa, F. Thalasso, F. M. Cuervo López, A.-C. Texier
P1010	Effects of Organic Carbon Source, COD/N ratio and Temperature on Anammox Organisms	J. A. Sánchez Guillén, Y. Yimmam, C. M. Lopez Vazquez, D. Brdjanovic, J. B. van Lier
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P1015	Influence of packing media on the diversity and abundance of nitrifying bacteria in trickling filters treating effluent from an UASB reactor	E. F. A. Mac Conell, J. C. Araújo, P. G. S. Almeida, C. A. L. Chernicharo
P1016	Sequential coupling of nitrification-denitrification for simultaneous removal of ammonium, <i>p</i> -cresol and sulfide	R. A. De la Torre-Velasco, P. Damian-Matsumura, R. Beristain-Cardoso, J. Gómez
P1017	Nutrient recovery from dewatered supernatant after anaerobic sludge digestion	M. Latifian, O. Holst, J. Liu
P1018	Nitrogen removal and enrichment of anaerobic ammonium-oxidizing bacteria by using packed-bed reactor	M. Tatara, S. Ishikawa, Y. Kitajima, Y. Ueno
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P1021	Aerobic post-treatment of digested liquid fraction of dairy manure together with urban waste water	J. L. Rico, C. Rico, N. Muñoz, J. Fernández, J. Renedo
P1022	Sulphides from biogas scrubbing as electron donors for denitrification - importance of nitrate/sulphide ratio	D. Pokorna, J. Maca, J. Zabranska, M. Dohanyos
P1023	Nitrogen removal using a Structured Bed Intermittently Aerated reactor treating UASB domestic effluent	D. A. C. Gadelha, R. B. Moura, M. H. R. Z. Damianovic, E. Foresti

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P1027	Ammonia removal in food waste anaerobic digestion using a sidestream process	A. Serna-Maza, S. Heaven, C. J. Banks
P1028	Ammonium production from urine	B. Espinosa-Chávez, G. Zeeman, F. Ramírez-Vives, O. Monroy
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P1030	Constructed wetlands as post-treatment of anaerobically treated swine wastewater effluent	C. Plaza de los Reyes, G. Pozo, G. Vidal
P1031	Coupling anaerobic digestion and struvite precipitation in the same reactor using magnesium sub-product as raw material	M.S. Romero-Güiza, S. Astals, J.M. Chimenos, J. Mata-Alvarez
P1032	Start-up and operation of the simultaneous nitrification-denitrification process in a SBR reactor using Chilean zeolite	L. Guerrero, C. Basaul, A. Barahona
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P1103	Experiences concerning the integration of pre-treatment of sludge in WWTPs in Mexico: The Huejotzingo case study	K. Peña Muñoz, H. Zúñiga Castillo
P1104	Alkaline pre-treatment to enhance two-stages H ₂ batch/CH ₄ continuous production from sunflower stalks	F. Monlau, P. Kaparaju, E. Trably, J. P. Steyer, H. Carrère
P1105	Effect of ultrasound pre-treatment over sludge digestion: Application of particle size analysis	E. J. Martínez, J. Fierro, D. Blanco, X. Gómez
P1106	The effects of solid concentration and irradiation time for the solubilization of waste activated sludge with microwave	I. G. Byun, J. S. Lim, J. M. Lee, T. J. Park
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P1108	Thermal hydrolysis pre-treatment of biosolids: A review on commercial processes	S. I. Pérez-Elvira, I. Sapkaite, L.C. Ferreira, F. Fdz-Polanco
P1109	Enzymatic pre-treatment of the organic fraction of municipal solid waste	A. Nwobi, I. Cybulska, J. Rodríguez, M. H. Thomsen
P1110	Optimising anaerobic digestion of municipal secondary sludge by ultrasonic and alkaline pre-treatments	D. Arango, D. Hernández, O. Hoyos, A. Quintero, M. A. Camargo-Valero, C. Castro, F. Molina
P1111	A novel free nitrous acid (FNA)-based technology for enhancing anaerobic digestion of waste activated sludge	Q. Wang, L. Ye, G. Jiang, P. Jensen, D. Batstone, Z. Yuan
P1112	Evaluation of the effect of different steam explosion conditions on methane potential and enzymatic saccharification of birch (<i>Betula pubescens</i>)	V. Vivekanand, E. F. Olsen, V. G. H. Eijssink, S. J. Horn
P1113	Steam explosion of bagasse: Methane potential and enzymatic saccharification	V. Vivekanand, E. F. Olsen, V. G. H. Eijssink, S. J. Horn
P1114	Enhanced biogas production from forest residues by NMMO pretreatment	M. M. Kabir, I. S. Horváth
P1115	Study of hydrolytic potentialities strains isolated from compost	C. Rondel, C. E. Marcato-Romain, D. Lefebvre, E. Girbal-Neuhauser, V. Dossat-Létisse
P1116	Bio-gasification of intermittent organic waste by anaerobic-aerobic sequential batch treatment system	S. Akizuki, K. Izumi, N. Nagao, C. Niwa, T. Toda
P1117	Impact of ozonation on COD and FOG reduction in an upflow anaerobic sludge blanket (UASB) reactor treating grain distillery wastewater	L. Robertson, T. J. Britz, G. O. Sigge
P1118	Hydrolysis of algal biomass residue aimed at methane production	N. O. Santos, S. M. Oliveira, L. C. Alves, M. C. Cammarota
P1119	Combined use of biosurfactant and enzyme preparations to treat effluent with high fat content	F. R. C. Damasceno, D. M. G. Freire, M. C. Cammarota
P1120	Intensification of biogas production by pre-hydrolysis by means anaerobic fungi	J. Procházka, P. Dolejš, M. Dohányos, K. Fliegerová, L. Štrosová
P1121	Effect of autoclaving on ammonium concentration during anaerobic digestion of food waste with increasing organic loading rate	E. Tampio, S. Ervasti, T. Paavola, S. Heaven, C. Banks, J. Rintala
P1122	Enhanced hydrogen and methane production from waste activated sludge by alkaline pretreatment	B. Y. Xiao, J. X. Liu

P1123	Biochemical methane potential study of bamboo waste powder and alkaline pre-treatment	S. Shen, I. A. Nges, J. Yun, J. Liu
P1124	Harvesting fungal enzymes to enhance biogas production from grass silage	L. F. R. Montgomery, S. Gorter, W. Fuchs, G. Bochmann
P1125	Increasing the Release of Soluble Carbohydrates from a Recalcitrant Lignocellulosic Biomass for Biohydrogen Production	P. J. Kumi, H. G. Williams, R. M. Dindale, G. Shipley, J. P. Reed, A. J. Guwy
P1126	Concentration of COD in municipal wastewater by Membrane Flocculation Reactor (MFR) for improved energy recovery	Z. Jin, H. Gong, K. Wang
P1127	Pre-treatment of meat processing wastes: Effect of enzyme and ultrasonic on biogas production potential	F. Gehesha, M. Z. Othman, P. Mossison
P1128	Effect of ultrasound pre-treatment on anaerobic digestion of soluble and particulate phases of fresh and dried microalgae	M. E. Alzate, F. Fdz-Polanco, F. Rogalla, R. Muñoz, S. I. Pérez-Elvira
P1129	Effects of thermochemical pre-treatment on anaerobic digestion of aquatic weeds excessively grown in Lake Biwa	M. Koyama, C. Niwa, J. Ida, K. Ishikawa, S. Ban, T. Toda
P1130	Application of marine bacteria presenting cellulolytic activity for pre-treatment of microalgae for biogas production	C. Muñoz, C. Hidalgo, M. Zapata, D. Jeison, C. Riquelme, M. Rivas
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Section 1200 - Economic & Legal aspects - Energy recovery-Biogas - Agronomic use of digestate

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P1202	Desulphurization of biogas: biological hydrogen sulphide trickling filter based on specially modified aluminosilicate	V. Kastner, S. Martinek, W. Schnitzhofer
P1203	Biogas purification: trace compounds adsorption for SOFC application	L. Sigot, G. Ducom, B. Benadda, F. Lebovits, V. Paradowski, C. Laboure
P1204	CO ₂ -Conversion to Fuels by Microbiological Electrosynthesis	L. Puttinger, A. Fuchsbauer, M. Haberbauer, S. Martinek
P1205	Biomethane -feedstocks and potential as transportation fuel in Southern Finland	S. Rasi, J. Höhn, E. Lehtonen, J. Rintala
P1206	Economic and carbon footprint evaluation of thin stillage treatment in an AnMBR	B. Heffernan, R. K. Dereli, J. G. M. Van Der Lubbe, A. Grelot, F. P. Van Der Zee
P1207	Could anaerobic digestion of sewage sludge satisfy energy requirements of wastewater treatment plant?	P. Jenicek, J. Kutil, O. Benes, V. Todt, J. Zabranska, M. Dohanyos
P1208	The headspace of microaerobic reactors: sulphide-oxidising population and impact of cleaning on desulphurisation performance	I. Ramos, R. Pérez, M. Fdz-Polanco
P1209	To treat or not to treat? Environmental assessment of digestate drying technologies using LCA methodology	I. Vázquez-Rowe, K. Golkowska, V. Lebuf, F. Accoe, E. Benetto, D. Koster
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