

**ATHENS 2017 Conference**  
**Selected Papers for:**  
**WASTE & BIOMASS VALORIZATION**

1. C.M. Dykstra, S.G. Pavlostathis, Sulfide Effect on Biogas Upgrading with a Bioelectrochemical System (USA)
2. O. Wesley Awe, J. Lu, S. Wu, Y. Zhao, A. Nzihou, N. Lyczko, D. Pham Minh, Effect of oil content on biogas production and performance stability of anaerobic digestion of food waste (Ireland, France)
3. E. Tilahun, E. Sahinkaya, B. Calli, Biogas desulfurization using PDMS membrane in a gas-liquid contactor under slightly alkaline conditions: Optimization of Operational Parameters (Turkey)
4. J.R. Bastidas-Oyanedel, A. Sowunmi, J.E. Schmidt, Enhancement of biomethane potential of waste paper by stream pretreatment (United Arab Emirates)
5. J. A. Magdalena, C. Gonzalez-Fernandez, A. Mahdy, I. de Godos, M. Ballesteros, Proteins: a key macromolecule for an efficient anaerobic digestion of microalgae biomass (Spain)
6. K. Tsigkou, P. Tsafrakidou, C. Zafiri, M. Kornaros, Pretreatment of disposable nappies towards valorization of the fermentable fraction through anaerobic digestion (Greece)
7. T. Gienau, M. Kraume, U. Brüß, S. Rosenberger, Nutrient recovery from biogas digestate in semi-technical scale in Northern Germany (Germany)
8. J. Dosta, A. Martin-Ryals, M. Garrigó, V. Ortiz-Roca, I. Fernández, J. Mata-Álvarez, Acidogenic fermentation and anaerobic codigestion of OFMSW and Polyethylene glycol (Spain)
9. Xiaohui Xu, Xinyi Shi, Zhaoxin Liu, Sheng Sheng, Fuan Wu, Jun Wang, Fed-batch fermentation of *Yarrowia lipolytica* using defatted silkworm pupae hydrolysate: A dynamic model-based approach for high yield of lipid production (China)
10. S. Vakalis, K. Moustakas, D. Malamis, M. Loizidou, Introduction to the concept of particleboard production from mixtures of sawdust and dried food waste (Greece)
11. A. Chrysargyris, A. Stamatakis, K. Moustakas, M. Prasad, N. Tzortzakis, Evaluation of municipal solid waste compost and/or fertigation as peat substituent for pepper seedlings production (Cyprus)
12. A. Kappel, G.M., Kirkelund, L.M. Ottosen, Utilisation of electro-dialytic treated sewage sludge ash in cement based materials (Denmark)
13. E. Bursi, I. Lancellotti, L. Barbieri, A. Sacconi, M.C. Bignozzi, CRT glass management: chemical pretreatment for use in cementitious composite (Italy)

14. F. Andreola, L. Barbieri, I. Lancellotti, F. Bondioli, Rice husk ash (RHA) recycling in brick manufacture: Effects on physical and microstructural properties (Italy)
15. D. Blanc, L. Gonzalez, M.O. Lupsea, C. de Brauer, Mineralogical evolution and leaching behaviour of a heap of Bottom ash as a function of time –influence on its valorization (France)
16. D. Kioupis, A. Skaropoulou, S. Tsvilis, G. Kakali, Construction and Demolition Wastes as Resources for the development of Green Building Materials (Greece)
17. C. Magro, L. Ottosen, E. P. Mateus, A. B. Ribeiro, Electrodialytic technology as effluent treatment for reuse in construction materials (Portugal, Denmark)
18. P. Li, M. Zhang, X.M. Hou, B.J. Yan, H.W. Guo, S. Seetharaman, Molten salt-enhanced production of hydrogen by using skimmed hot dross from aluminum remelting at high temperature (China)
19. Gordon C. C. Yang, Sheng-Chih Huang, Yu-Chen Huang, Recovery of valuable metals from cylindrical 18650-type spent lithium-ion batteries (Taiwan, China)
20. I. Matino, V. Colla, S. Baragiola, Evaluation of Internal Slag Reuse in an Electric Steelmaking Route: Simulation Analyses through the EIRES Monitoring Tool (Italy)
21. Min Guo, Hui-gang Wang, Mei Zhang, One-step and green synthesis of metal doped spinel ferrite (Ni,Zn)Fe<sub>2</sub>O<sub>4</sub> with high magnetic property from Zn-containing electric arc furnace dust (China)
22. H.A. Abdulbari, W. K. Mahmood, R.M. Yunus, Biodegradable Grease from Palm Oil Industry Wastes (Malaysia)
23. Ashley Sthefanía Caballero Galván, Daissy Lorena Restrepo Serna, Mariana Ortiz Sanchez, Carlos Ariel Cardona Alzate, Determination of extraction kinetic of bioactive compounds from spent coffee grounds (Colombia)
24. X. Li, Y. Hu, C. Du, C.S.K. Lin, Recovery of glucose and polyester from textile waste by enzymatic hydrolysis (Hong Kong)
25. E. Babayigit, D. Atik, A. Erdinçler, Biodiesel production from petrochemical industry and sewage sludges by novel direct liquid-liquid extraction method (Turkey)
26. M. Rolewicz, P. Rusek, K. Borowik, Technology of obtaining granulated phosphate fertilizers based on municipal sewage sludge ashes and bacteria *Bacillus megaterium* (Poland)
27. S. Hemidat, A. Nassour, M. Nelles, Optimization of Composting Parameters for the Production of Organic Fertilizers from Different Organic Waste Materials (Germany)

28. Q. Yin, Y. Li, Y. Wang, G. Wu, Thermophilic hydrolysis and acidification of activated sludge with a low organic carbon content under different sludge concentrations (China)
29. B.C. Lima, L.M. Lima, M.L. Brandão, V.M. Zanta, D.V. Vich, L.M. Queiroz, Composting as an alternative for final disposal of digested sludge from UASB reactors: a case study in the small municipalities of the state of Bahia, Brazil (Brazil)
30. J. Oladipo, M. Anas Nahil, P. T. Williams, Novel catalytic three-stage reactor system for hydrogen production from biomass (UK)
31. M. Alexandropoulou, N. Menis, G. Antonopoulou, I. Ntaikou, G. Lyberatos, From waste to fuel: bioconversion of domestic food wastes to energy carriers (Greece)
32. A. Tremouli, J. Greenman, I. Ieropoulos, Ceramic stack for urine energy extraction (UK)
33. A. Luciano, P. Reale, L. Cutaia, Optimization of resources and waste management in construction and quarrying chain: toward a resource efficiency plan (Italy)
34. K. Abeliotis, K. Lasaridi, C. Chroni, A. Potouridis, Environmental assessment of the recovery of printed circuit boards in Greece (Greece)
35. S.M Pérez-Moreno, D. Paz-Gómez, M.J. Gázquez, G. Ríos, I. Ruiz-Oria, J.P. Bolívar, Physico-Chemical Characterisation of a waste from copper smelting electric arc furnace (Spain)
36. V. Pérez, J.M. Murillo, R. Bados, L.S. Esteba, R. Ramos, J.M. Sánchez, Preparation and gasification of brewers spent grains (Spain)
37. D. Hidalgo, J.M. Martín-Marroquín, F. Corona, M. Mussons, G. Antolín, Combined remediation and protein production using microalgae growth on waste bakery products (Spain)
38. Mengmeng Tian, Georg Hausner, Tuhin K. Guha, Qiuyan Yuan, Production of cellulase and xylanase using food waste by solid-state fermentation (Canada)
39. Y. A. Rodríguez-Restrepo, S. Ospina Corral, C. E. Orrego, Morphology and properties of cellulose nanofibers from passion fruit stalks (*PASSIFLORA EDULISSIM F.*) obtained through chemical and mechanical treatment (Colombia)
40. C. Asada, C. Sasaki, A. Suzuki, Y. Nakamura, Efficient separation and utilization of structural components in lignocellulosic waste (Japan)
41. P. Madikizela, R. Tandlich, N. Ngqwala, R. Laubscher, Optimizing biogas recovery from pit latrine faecal sludge (South Africa)
42. M.A. Kougioumtzis, A. Marianou, K. Atsonios, C. Michailof, N. Nikolopoulos, N. Koukouzas, K. Triantafyllidis, A. Lappas, E. Kakaras, Production of HMF from

cellulosic biomass: Experimental results and integrated process simulation (Greece)

43. H.N.F. Lira, P.A.Z. Suarez, E.T. Rangel, Fuel Synthesis with Biocidal activity and lubricating grease from industrial oil waste (Brazil)
44. R. Teixeira Franco, P. Buffière, R. Bayard, Effects of storage conditions, total solids content and silage additives on fermentation profiles and methane preservation of cattle manure before anaerobic digestion (France)
45. O.K.M. Ouda, H.P. Peterson, M. Rehan, Y. Sadeif, J.M. Alghazo, A.S. Nizami, Sustainable Construction Waste Management: A Case Study of Saudi Arabia, (Saudi Arabia)