

Peer-Reviewed Publications of Waste2Fuels Project

Title	Authors	Journal/Proc./Book	DOI
Ultrasound-assisted Dilute Acid Pretreatment of Coffee Silverskin for Biorefinery Applications	Saverio Niglio, Alessandra Procentese, Maria Elena Russo, Giovanni Sannia, Antonio Marzocchella	Chemical Engineering Transactions	10.3303/CET1757019
Estudio experimental y modelado cinético de la oxidación de 1-butanol	Eduardo Royo, Luis López, Ángela Millera, Rafael Bilbao, María U. Alzueta	Jornada de Jóvenes Investigadores del I3A	
Industrial potato peel as a feedstock for biobutanol production	María Hijosa-Valsero, Ana I. Paniagua-García, Rebeca Díez-Antolínez	New Biotechnology	10.1016/j.nbt.2018.07.002
Deep Eutectic Solvents pretreatment of agro-industrial food waste	Alessandra Procentese, Francesca Raganati, Giuseppe Olivieri, Maria Elena Russo, Lars Rehmann, Antonio Marzocchella	Biotechnology for Biofuels	10.1186/s13068-018-1034-y
Colocalization and Disposition of Cellulosomes in Clostridium clariflavum as Revealed by Correlative Superresolution Imaging	Lior Artzi, Tali Dadosh, Elad Milrot, Sarah Morais, Smadar Levin-Zaidman, Ely Morag, Edward A. Bayer	mBio	10.1128/mBio.00012-18
Laccase pretreatment for agrofood wastes valorization	Simona Giacobbe, Cinzia Pezzella, Vincenzo Lettera, Giovanni Sannia, Alessandra Piscitelli	Bioresource Technology	10.1016/j.biortech.2018.05.108
Biobutanol production from apple pomace: the importance of pretreatment methods on the fermentability of lignocellulosic agro-food wastes	María Hijosa-Valsero, Ana I. Paniagua-García, Rebeca Díez-Antolínez	Applied Microbiology and Biotechnology	10.1007/s00253-017-8522-z
Catalysts for conversion of ethanol to butanol: Effect of acid-base and redox properties	Stefano Cimino, Luciana Lisi, Stella Romanucci	Catalysis Today	10.1016/j.cattod.2017.08.035
Valorization of Apple Pomace by Extraction of Valuable Compounds	Camila A. Perussello, Zhihang Zhang, Antonio Marzocchella, Brijesh K. Tiwari	Comprehensive Reviews in Food Science and Food Safety	10.1111/1541-4337.12290
Biobutanol production from coffee silverskin	María Hijosa-Valsero, Jerson Garita-Cambronero, Ana I. Paniagua-García, Rebeca Díez-Antolínez	Microbial Cell Factories	10.1186/s12934-018-1002-z
Ni or Ru supported on MgO/ γ -Al ₂ O ₃ pellets for the catalytic conversion of ethanol into butanol	J. Apuzzo, S. Cimino, L. Lisi	RSC Advances	10.1039/c8ra04310h
Polycyclic aromatic hydrocarbons (PAHs) and soot formation in the pyrolysis of the butanol isomers	F. Viteri, S. Gracia, Á. Millera, R. Bilbao, M.U. Alzueta	Fuel	10.1016/j.fuel.2017.02.026
Coffee Silverskin as a Renewable Resource to Produce Butanol and Isopropanol	Alessandra Procentese, Francesca Raganati, Luciano Navarini, Giuseppe Olivieri, Maria Elena Russo, Antonio Marzocchella	Chemical Engineering Transactions	10.3303/cet1864024
Bio-butanol separation by adsorption on various materials: Assessment of isotherms and effects of other ABE-fermentation compounds	Francesca Raganati, Alessandra Procentese, Giuseppe Olivieri, Maria Elena Russo, Piero Salatino, Antonio Marzocchella	Separation and Purification Technology	10.1016/j.seppur.2017.09.059
Comparison of selected clean and green extraction technologies for biomolecules from apple pomace	Zhihang Zhang, Mahesha M. Poojary, Alka Choudhary, Dilip K. Rai, Brijesh K. Tiwari	Electrophoresis	10.1002/elps.201800041
Assessment of Hybrid Processes for Bio-Butanol Purification Applying Process Simulation	Walter Wukovits, Florian Kirchbacher, Martin Miltner, Anton Friedl	Chemical Engineering Transactions	10.3303/cet1870054

Modular Organization of the Thermobifida fusca Exoglucanase Cel6B Impacts Cellulose Hydrolysis and Designer Cellulosome Efficiency	Eva Setter-Lamed, Sarah Morais, Johanna Stern, Raphael Lamed, Edward A. Bayer	Biotechnology Journal	10.1002/biot.201700205
Unique organization and unprecedented diversity of the Bacteroides (Pseudobacteroides) cellulosolvans cellulosome system	Olga Zhivin, Bareket Dassa, Sarah Morais, Sagar M. Utturkar, Steven D. Brown, Bernard Henrissat, Raphael Lamed, Edward A. Bayer	Biotechnology for Biofuels	10.1186/s13068-017-0898-6
How does cellulosome composition influence deconstruction of lignocellulosic substrates in Clostridium (Ruminiclostridium) thermocellum DSM 1313?	Shahar Yoav, Yoav Barak, Melina Shamshoum, Ilya Borovok, Raphael Lamed, Bareket Dassa, Yitzhak Hadar, Ely Morag, Edward A. Bayer	Biotechnology for Biofuels	10.1186/s13068-017-0909-7
Pan-Cellulosomics of Mesophilic Clostridia: Variations on a Theme	Bareket Dassa, Ilya Borovok, Vincent Lombard, Bernard Henrissat, Raphael Lamed, Edward Bayer, Sarah Morais	Microorganisms	10.3390/microorganisms5040074
Assembly of Synthetic Functional Cellulosomal Structures onto the Cell Surface of Lactobacillus plantarum , a Potent Member of the Gut Microbiome	Johanna Stern, Sarah Morais, Yonit Ben-David, Rachel Salama, Melina Shamshoum, Raphael Lamed, Yuval Shoham, Edward A. Bayer, Itzhak Mizrahi	Applied and Environmental Microbiology	10.1128/aem.00282-18
Improving the catalytic performance of Ni(Ru)/MgO in the conversion of ethanol to butanol by dispersion on Gamma-Al2O3 pellets	J. Apuzzo, S. Cimino, L. Lisi	Joint Meeting of the German and Italian Sections of the Combustion Institute, Sorrento, Italy, 2018	
In Situ Two-Stage Gas Stripping for the Recovery of Butanol from Acetone-Butanol-Ethanol (ABE) Fermentation Broths	Rebeca Díez-Antolínez, María Hijosa-Valsero, Ana I. Paniagua-García, Xiomar Gómez	Chemical Engineering Transactions	10.3303/cet1864007
Pretreatment of coffee silverskin with ultrasound and mild alkaline solutions for enhancement of sugar yield	M.E. Russo, S. Niglio, A. Procentese, A. Marzocchella	New Biotechnology	10.1016/j.nbt.2018.05.1243
Análisis de la combustión híbrida de metano y butanol en un motor de combustión interna	Jesús Casanova Kindelán, Natalia Fonseca González, Daniel Agudo Fernández	Anales de Ingeniería Mecánica	
The effect of butanol isomers on the formation of carbon particulate matter in fuel-rich premixed ethylene flames	Carmela Russo, Andrea D'Anna, Anna Ciajolo, Mariano Sirignano	Combustion and Flame	10.1016/j.combustflame.2018.10.025
Combined antioxidant-biofuel production from coffee silverskin MgO Dispersed on Activated Carbon as Water Tolerant Catalyst for the Conversion of Ethanol into Butanol	Alessandra Procentese, Francesca Raganati, Giuseppe Olivieri, Maria Elena Russo, Antonio Marzocchella	Applied Microbiology and Biotechnology	10.1007/s00253-018-9530-3
	Stefano Cimino, Jessica Apuzzo and Luciana Lisi	Applied Sciences	10.3390/app9071371