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## Biofuel precursors from almend shell under microwave radiation

M Salgado, A J Huertas, A Lorente, M P Sánchez-Verdú, B Cabañíatá Moreno University of Castilla La Mancha, Spain

The progressive decrease of fossil fuels and the increase emGSions suppose a serious problem for the environment. Moreover, it has been object of study by many research groups for the last years. One of the main renewable source energy in the world is biomass. e agro-industrial wastes also suppose an important source of raw material at the time of reduce these emissions. Among these wastes previously mentioned it can be found melon rind1, beer bagasse or almost shell2. Almond shell is mainly made of cellulose, hemicellulose and lignin. Some simple sugars have been also identie of such as glucose, xylose and fructose. e dehydration of these sugars generates some compounds which have been evaluat as precursors of biofuels due to their calori c capacity are lower than the oils currently used. Among these precursors car be remarked 5-hydroxymehylfurfural (HMF), levulinic acid (LA) and 2,5-dymethilfuran (DMF).3 Microwave radiation is a suitable technique that permits us to carry out the hydrolysis and dehydration of cellulose to obtain the desired products.4 In addition, Nuclear Magnetic Resonance (NMR) allows us to identify and quantify all reactions products.



## Biography

M Salgado graduated in Chemistry in 2015 from University of Castilla-Ia Mancha (UCLM). Later, he completed her Master's degree in organic chemistry at the & R P S O X W H Q V H & Q L Y H U V L W \ RI 0 D G U L G & & 0 + H K D V Z R U N H G L Q V R P H J U R X S V G X U L Q J K L V ¿ Y H \ H D U V S X E O L F D W L R Q D Q G S D U W L F L S D W L R Q L Q V H Y H U D O V F L H Q W L ¿ F F R Q J U H V V H V \$F W X D O O \ K H L V D 3 K' D W Doctors Andres Moreno and Maria del Prado Sanchez Verdu.

Manuel.Salgado@uclm.es

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