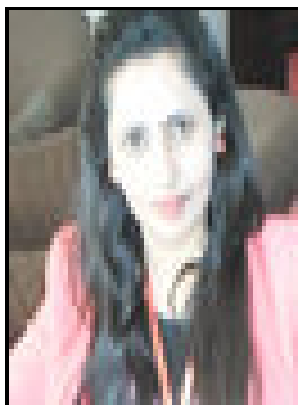


Analytical pyrolysis and GC/MS of pyrolysates from vegetable oils (and their calcium soaps) extracted from the fruit of Macauba palm (Acrocomia sclerocarpa M.).

University of Salford - Pyrolysis/GC/MS as a Method to Rapidly Profile Pyrotechnic Formulations for Objectionable Gaseous Emissions



Description: -

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Tags: #Pyrolysis/GC/MS #as #a #Method #to #Rapidly #Profile #Pyrotechnic #Formulations #for #Objectionable #Gaseous #Emissions

Pyrolysis

Temperature-programmed pyrolysis is another special type in which the sample is heated at a controlled rate β within different temperature ranges. Each zone is then individually analyzed. Prior to introduction into the GC-MS, the pyrolyzates are cryotrapped using liquid nitrogen.

Pyrolysis

This is done in order to characterize the original sample. The combination of a pyrolysis process with other types of treatment mechanical, biological, or chemical or materials characterization is within the scope of the journal only if the main focus of the manuscript is the pyrolysis process.

Pyrolysis

Catalysts should be physically and chemically characterized before reaction, and, when feasible analysis of catalysts after reaction is also desirable. Integrated processes combining pyrolysis reactors and products purification are welcome, if different pyrolysis conditions are studied. The pyrolyzates are then chromatographically separated in the same manner as traditional GC-MS.

Analytical Pyrolysis

Wholly aromatic polyamides such as poly 1,3-phenyleneisophthalamide Nomex and poly 1,4-phenyleneterephthalamide Kevlar generate benzonitrile, benzene, toluene, benzodinitrile, etc. The obtained analytical results were then used for troubleshooting and remedial action of the technological process. One example is fractionated pyrolysis or step-wise pyrolysis, in which the same sample is pyrolyzed at different temperatures in increasing order for different times in order to study special fractions of the pyrolyzate.

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