Přehled aplikací GC-MS

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* Zdroj: Google Scholar, e-Library

GC-MS (Q) 5975, 5977
Typy aplikací

GC-MS (Q) 5975, 5977 aplikace pro chemii paliv a biopaliv, petrochemii a geologii

Chemie paliv a biopaliv

- A study of hydrogen pressure during hydropyrolysis of Miscanthus x giganteus and online catalytic vapour upgrading with Ni on ZSM-5
- Efficient coagulation of microalgae in cultures with filamentous fungi
- Optimization of lipid enriched biomass production from oleaginous fungus using response surface methodology
- Secondary amines as switchable solvents for lipid extraction from non-broken microalgae
• Lignin depolymerisation by nickel supported layered-double hydroxide catalysts

• Synthesis of new polyethoxylated tertiary amines and their use as Switchable Hydrophilicity Solvents

• Chrysochromulina sp.: A proposed lipid standard for the algal biofuel industry and its application to diverse taxa for screening lipid content

• Effects of additional Mg2+ on the growth, lipid production, and fatty acid composition of Monoraphidi um sp. FXY-10 under different culture conditions

• The effect of sodium bicarbonate supplementation on growth and biochemical composition of marine microalgae cultures

• Direct conversion of wet algae to crude biodiesel under supercritical ethanol conditions

• Biodiesel production from waste cooking oil catalyzed by solid acid SO4 2−/TiO2/La3+

• Characterization of Bio-Oil Obtained from Sewage Sludge Pyrolysis Catalyzed by Char

• Co-Production of Activated Carbon and Bio-Oil from Agricultural Residues by Molten Salt Pyrolysis

• Integrated OMICS guided engineering of biofuel butanol-tolerance in photosynthetic Synechocystis sp. PCC 6803

• Biomass Gasification in an Air-Blown Down-Draft Gasifier: Determination of Tar Compounds from Producer Gas

• Upgrading bio-oil model compounds phenol and furfural with in situ generated hydrogen

• Effect of CaO on tar reforming to hydrogen-enriched gas with in-process CO2 capture in a bubbling fluidized bed biomass steam gasifier

• GC/MS Analysis of Trace Fatty Acid Methyl Esters (FAME) in Jet Fuel Using Energy Institute Method IP585

Energetika

• Evaluation of amine emissions from the post-combustion CO2 capture pilot plant

• Production of a hydrogen-rich gas from fast pyrolysis bio-oils: Comparison between homogeneous and catalytic steam reforming routes

Petrochemie

• Residual Monomers in Polymers by Multiple Headspace Extraction using the Agilent 7697A Headspace Sampler
Geologie

- Bacteriohopanoid inventory of Geobacter sulfurreducens and Geobacter metallireducens
- Characterization of unusual sterols and long chain diols, triols, keto-ols and n-alkenols in El Junco Lake, Galápagos
- The influence of salinity on D/H fractionation in alkenones from saline and hypersaline lakes in continental North America
- Terpenoid composition and chemotaxonomic aspects of Miocene amber from the Koroglu Mountains, Turkey
- Study of the biodegradation levels of oils from the Orinoco Oil Belt (Junin area) using different biodegradation scales
- Role of Ferrocyanides in the Prebiotic Synthesis of α-Amino Acids