

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

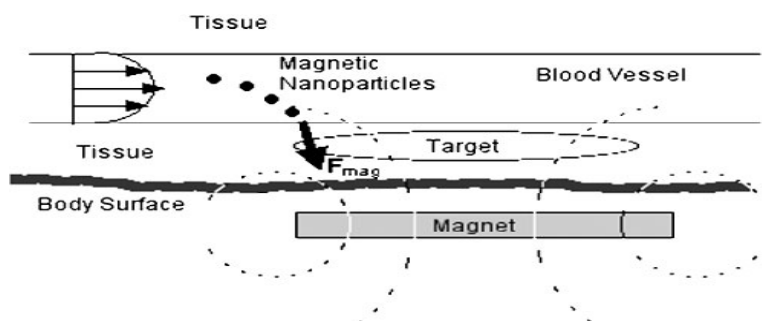
Tome 57, N° 12

Décembre 2012

## REVIEW

Lăcrămioara BĂLĂIȚĂ and Marcel POPA

Hybrid polymer particles with magnetic properties for drug delivery



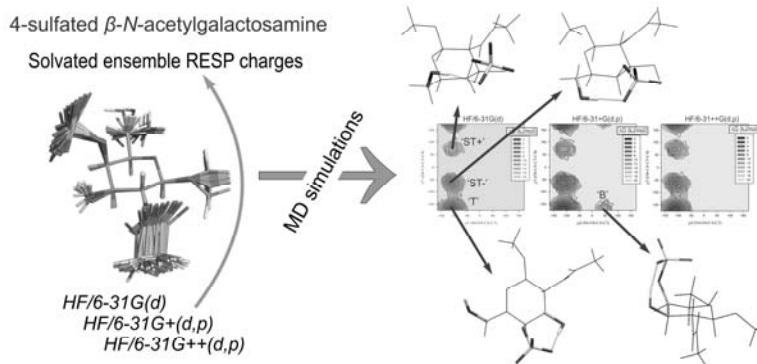
Rev. Roum. Chim., 2012, 57(12), 1003-1011

**Key words:** hybrid materials, magnetic particles, targeted drug delivery.

## PAPERS

Andrei NEAMTU, Xenia PATRAS,  
Monica NEAMTU, Anca OPREA,  
Tudor PETREUS and Nicolae HURDUC

The influence of partial charge calculation protocol on the sulfated monosaccharide conformation and dynamics

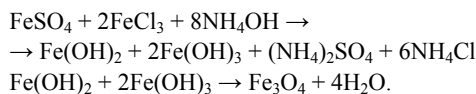


**Key words:** RESP charges, molecular dynamics, sulfated monosaccharide, free energy landscape, GLYCAM.

Rev. Roum. Chim., 2012, 57(12), 1013-1023

Doru PĂUNESCU, Ioan LUMINOSU,  
Nicolina POP, Robert MARIA,  
Angel PĂCURAR

Study of magnetite particles from a ferrofluid by average diameter criterion using the Maxwell distribution and extreme values functions

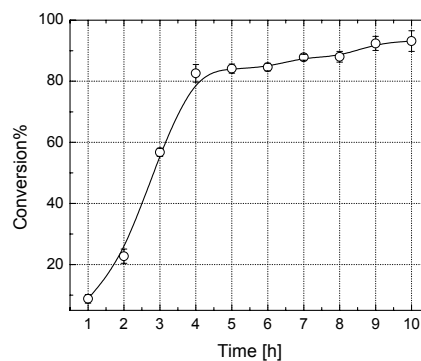


**Key words:** nanoparticle, complex liquid, ferrofluid, biphasic, statistical distribution.

Rev. Roum. Chim., 2012, 57(12), 1025-1030

Hayat TABEKH, Yahia KOUDSI and Zaki AJJI

Chemical recycling of poly(ethylene terephthalate) using sulfuric acid

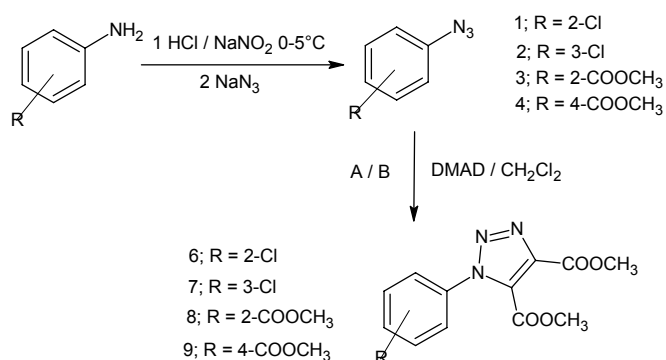


**Key words:** recycling, poly(ethylene terephthalate), Syrian commercial sulfuric acid, hydrolysis.

*Rev. Roum. Chim.*, 2012, 57(12), 1031-1036

Souad BOUASLA, Chames Eddyn FATMI and Mabrouk TEGUICHE

Synthesis of some 1,2,3-triazoles derivatives



A: regular stirring at room temperature

B: microwave irradiation at 300W

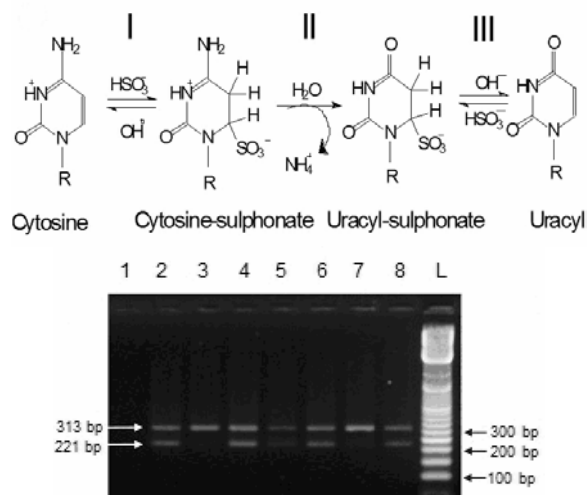
Scheme 1: preparation of aryl azides and 1,2,3-triazoles

**Key words:** aryl azides, DMAD, 1,3-dipolar cycloaddition, microwave irradiation, 1,2,3-triazoles.

*Rev. Roum. Chim.*, 2012, 57(12), 1037-1040

Cosmin ARSENE, Otilia ZARNESCU, Maria PUIU and Natalia CUCU

Parental allele methylation mapping method for Prader-Willi syndrome primary diagnosis in the Roumanian population

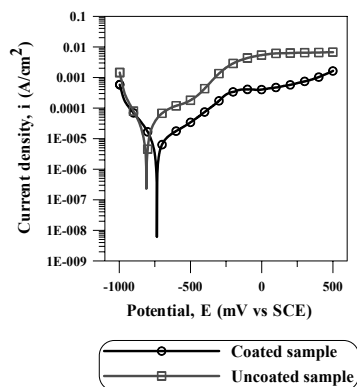


*Rev. Roum. Chim.*, 2012, 57(12), 1041-1047

**Key words:** epigenotype, methylation pattern, bisulfite mutagenesis.

Cătălina AXINTE, Daniel MARECI,  
Sorin Claudiu IACOB STRUGARU and  
Corneliu MUNTEANU

WC-Co-Cr coating on steel substrate processed  
by plasma spraying method

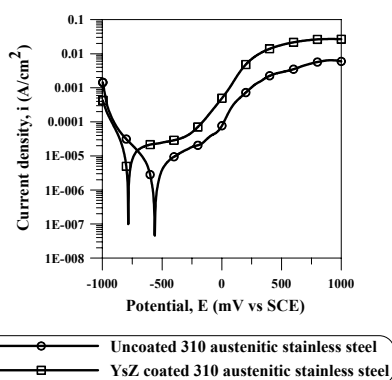


**Key words:** coating, pitting corrosion, plasma spraying, impedance, friction coefficient.

*Rev. Roum. Chim.*, 2012, 57(12), 1049-1055

Geanina Laura PINTILEI, Daniel MARECI,  
Sorin Claudiu IACOB STRUGARU and  
Corneliu MUNTEANU

Electrochemical and SEM characterization of  
plasma sprayed YsZ coating

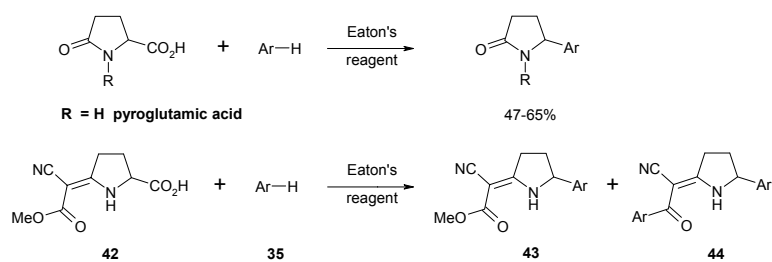


**Key words:** plasma spraying, YsZ-coating, XRD, potentiodynamic polarization, EIS, SEM.

*Rev. Roum. Chim.*, 2012, 57(12), 1057-1064

Alina GHINET, Benoît RIGO and  
Philippe GAUTRET

Studies on pyrrolidinones. On the synthesis  
of 5-aryl-2-pyrrolidinones



**Key words:** pyroglutamic acid, 2-pyrrolidinone, Eaton's reagent, enaminoester, N-acyliminium salt.

*Rev. Roum. Chim.*, 2012, 57(12), 1065-1072

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*Rev. Roum. Chim.*, 2012, 57(12), 1073-1082

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*Rev. Roum. Chim.*, 2012, 57(12), 1083-1087