

REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

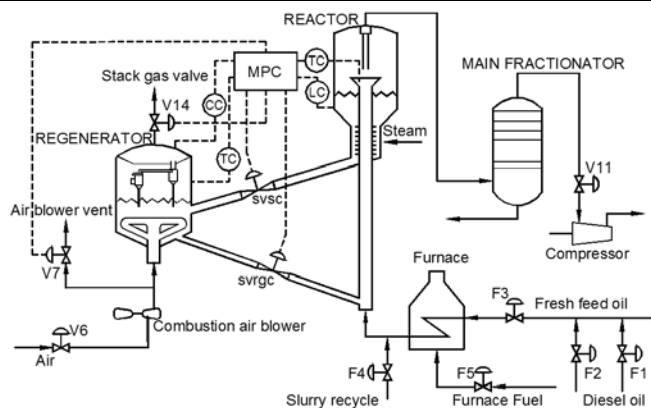
Tome 56, N° 12

Decembre 2011

PAPERS

Maria MIHEȚ and Vasile Mircea CRISTEA

Contributions to the model predictive control of the UOP fluid catalytic cracking unit

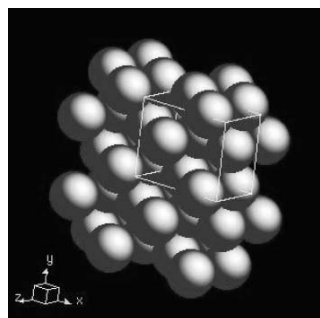


Rev. Roum. Chim., 2011, 56(12), 1093-1100

Key words: catalytic cracking, dynamic simulator, model predictive control.

Simona CONDURACHE-BOTA,
Romana DRAȘOVEAN, Nicolae ȚIGĂU and
Alicia Petronela RÂMBU

The influence of substrate temperature on the structure and on the optical reflection spectrum of bismuth thin films

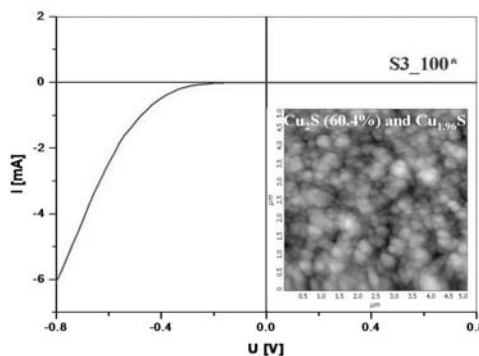


Rev. Roum. Chim., 2011, 56(12), 1101-1106

Key words: bismuth, vacuum thermal evaporation, XRD, grain size, reflectance.

Luminița ISAC, Ionuț POPOVICI and
Anca DUȚĂ

Tailoring chemically sprayed Cu_xS films crystallinity

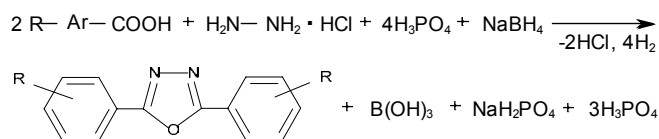


Rev. Roum. Chim., 2011, 56(12), 1107-1112

Key words: copper sulfide films, spray pyrolysis deposition, crystallinity, electrical properties.

Constantin I. CHIRIAC, Fulga TANASA and Marioara NECHIFOR

A new efficient one-pot synthesis of 2,5-diaryl-1,3,4-oxadiazoles

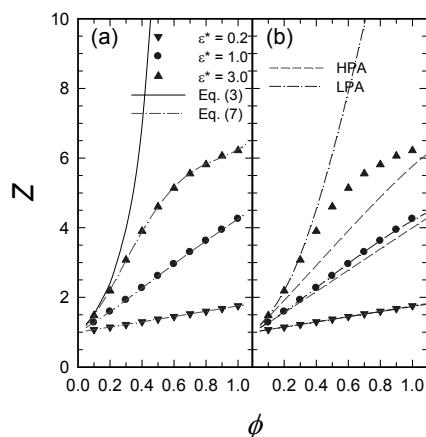


Rev. Roum. Chim., **2011**, 56(12), 1113-1117

Key words: one-pot synthesis, 2,5-diaryl-1,3,4-oxadiazoles, phosphoric acid, sodium borohydride.

Viorel CHIHAIA, Jose Maria CALDERON-MORENO, Nicolae STANICĂ, Viorica PARVULESCU, Mariuca GARTNER and Soong-Hyuck SUH

Thermodynamic and structural properties of penetrable-sphere systems: theory and simulation

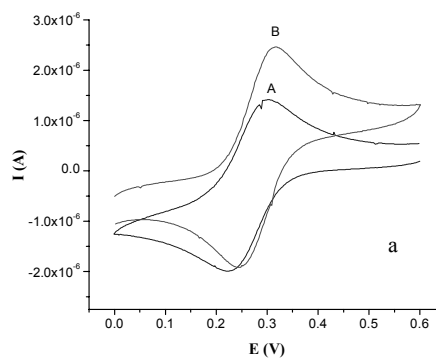


Rev. Roum. Chim., **2011**, 56(12), 1119-1127

Key words: penetrable-sphere fluid, molecular dynamics simulation, statistical thermodynamic theory.

Daniela BALA, Petronia DASU and Constantin MIHAILCIUC

Electrochemical behaviour of potassium hexacyanoferrates (II) and (III) in middle phase microemulsion

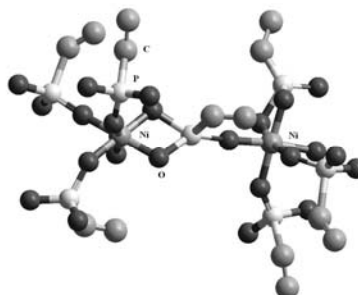


Rev. Roum. Chim., **2011**, 56(12), 1129-1136

Key words: electrochemistry in MPME, cyclic voltammetry, diffusion coefficients, active working electrode area.

Bianca MARANESCU, Aurelia VISA, Smaranda ILIESCU, Adriana POPA, Gheorghe ILIA, Valentin MARANESCU, Zeno SIMON and Mircea MRACEC

Structural properties of Ni²⁺ vinylphosphonate using PM3 semi-empirical analysis

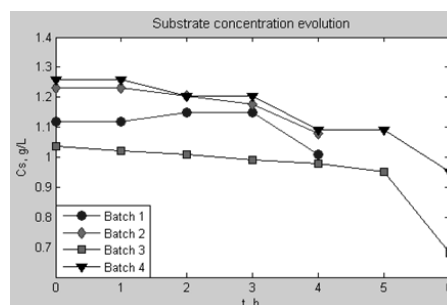


Rev. Roum. Chim., **2011**, 56(12), 1137-1145

Key words: metal organic frameworks, PM3 semi-empirical, vinylphosphonates, structural properties, electric properties.

**Cristina TĂNASE, Ana Aurelia CHIRVASE,
Camelia UNGUREANU, Mihai CARAMIHAI
and Ovidiu MUNTEAN**

Study of double-substrate limited growth
of *Pseudomonas aeruginosa* in aerobic bioprocess

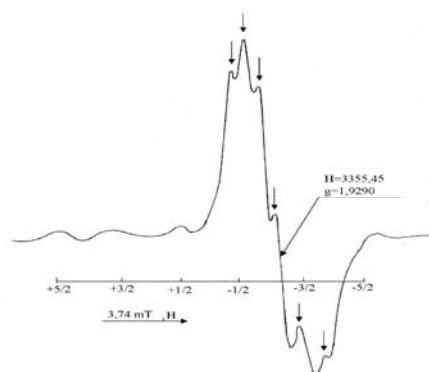


Key words: *Pseudomonas aeruginosa*, aerobic growth, double-substrate limited growth kinetics.

Rev. Roum. Chim., 2011, 56(12), 1147-1153

**Mihail CONTINEANU, Iulia CONTINEANU,
Ana NEACȘU and Adina-Elena STANCIU**

EPR study of paramagnetic centers in gamma
irradiated polycrystalline ammonium
paramolybdate (APMO) and ammonium
parawolframate (APW)

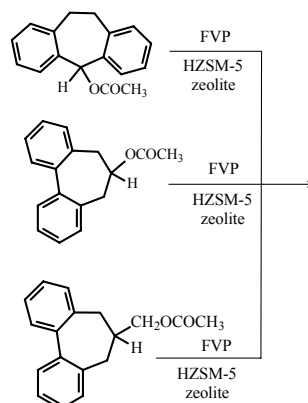


Key words: gamma irradiation, free radicals, paramagnetic centers, unpaired electron, hyperfine splitting.

Rev. Roum. Chim., 2011, 56(12), 1155-1162

**Beatrice-Anamaria TEODORU,
Angela POPESCU, Daniela ISTRATI,
Luminitza PĂRVULESCU,
Constantin DRAGHICI, Dan MIHAIESCU
and Florin BADEA**

Thermal decomposition of polycyclic acetates
over HZSM-5 zeolite in flow-vacuum conditions



Key words: flow-vacuum pyrolysis, polycyclic acetates, HZSM-5 zeolite catalyst.

Rev. Roum. Chim., 2011, 56(12), 1163-1169

Index of authors

Rev. Roum. Chim., 2011, 56(12), 1171-1182

Index of subjects

Rev. Roum. Chim., 2011, 56(12), 1183-1187