

REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

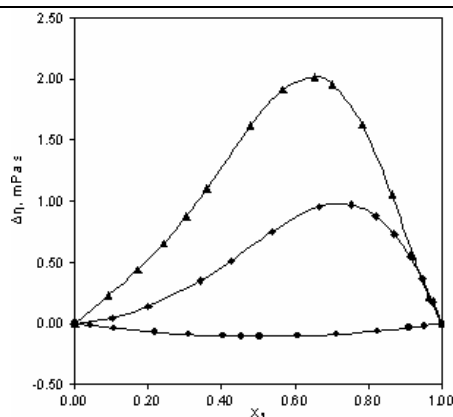
Tome 53, N° 11

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PAPERS

**Ligia-Maria OMOTA, Olga IULIAN,
Oana CIOCÎRLAN and Irina NIȚĂ**

Viscosity of water, 1,4-dioxane and dimethyl sulfoxide binary and ternary systems at temperatures from 293.15 K to 313.15 K

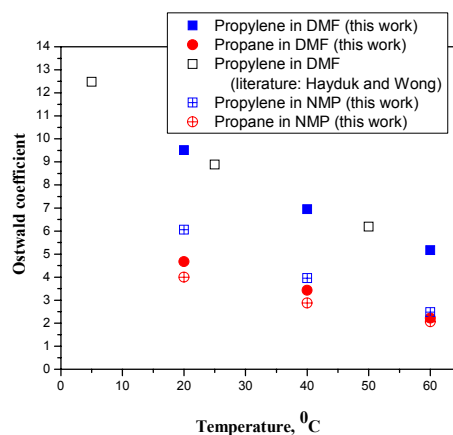


Rev. Roum. Chim., 2008, 53(11), 977-988

Key words: viscosity deviations, 1,4-dioxane, dimethyl sulfoxide, water.

Mihaela PETRE

Solubility of propylene and propane gases in *N*-methylpyrrolidone and dimethylformamide solvents

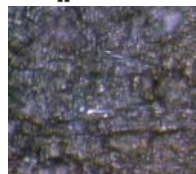
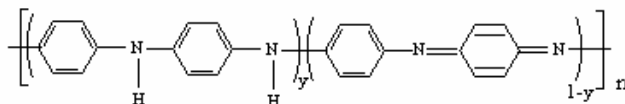


Rev. Roum. Chim., 2008, 53(11), 989-993

Key words: propylene, propane, *N*-methylpyrrolidone, dimethylformamide, Ostwald coefficients.

**Viorel BRÂNZOI, Florina BRÂNZOI and
Florentina GOLGOVICI**

The electrochemical behaviour of some composite coatings obtained by electrosynthesis on metallic substrate

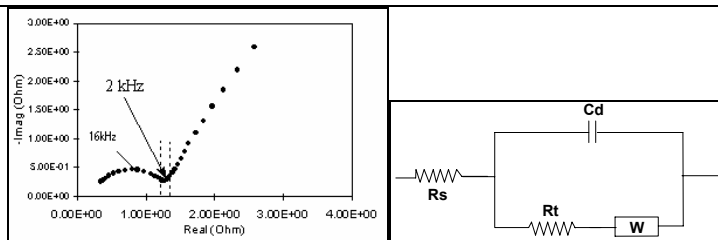


Key words: composite coating, conductive polymers, electrochemical oxidation, cyclic voltammetry and electrochemical impedance spectroscopy method.

Rev. Roum. Chim., 2008, 53(11), 995-1005

**Cristian PIRVU, Alexandra BANU,
Octavian RADOVICI and Maria MARCU**

Application of electrochemical impedance spectroscopy (EIS) to study of phenolic films

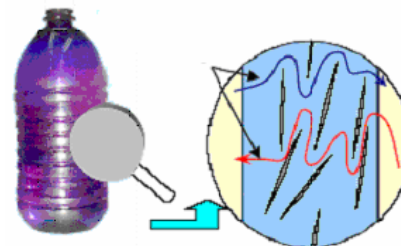


Key words: electrochemical impedance, phenol, electrooxidation, pseudocapacitance, equivalent circuit.

Rev. Roum. Chim., **2008**, 53(11), 1007-1015

**Doina DIMONIE, Constantin RADOVICI,
Ramona Marina COSEREA, Sorina GĂREA
and Mircea TEODORESCU**

The polymer molecular weight and silicate treatment influence upon the morphology of nanocomposites for food packaging



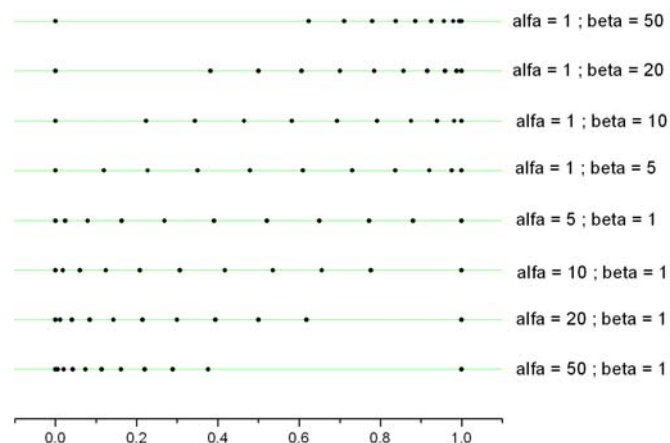
Key words: nanocomposites, poly (ethylene-co-vinyl acetate), layered silicates, barrier properties, melt processing.

Rev. Roum. Chim., **2008**, 53(11), 1017-1026

Dan DRAGU and Mihai BUDA

Practical aspects associated with the use of Jacobi polynomials in the simulation of quasi-reversible electrode processes with linear potential scan and diffusional control in one dimension

Roots distribution for $\alpha \leftrightarrow \beta$, in the vicinity of the electrode

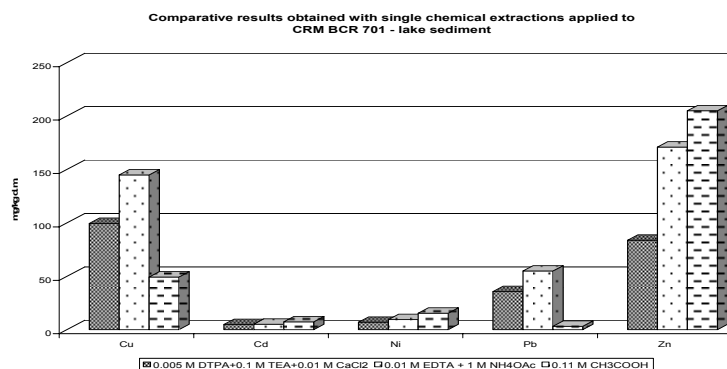


Key words: cyclic voltammetry, simulation, general Jacobi polynomials, orthogonal collocation.

Rev. Roum. Chim., **2008**, 53(11), 1027-1039

**Gabriela Geanina VASILE and
Ion Gh. TĂNASE**

Comparative study of different extraction methods for evaluation of bioavailability of terrestrial sediment – bound metallic elements

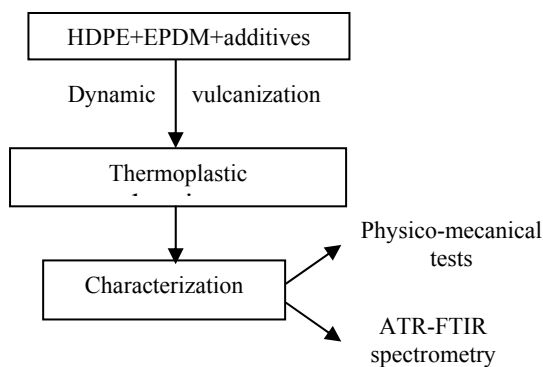


Rev. Roum. Chim., **2008**, 53(11), 1041-1049

Key words: BCR 701, sediment, mobile elements, EDTA

Zenovia MOLDOVAN, Florica IONESCU,
Ioana VASILESCU, Simona LIȚESCU and
Laurenția ALEXANDRESCU

HDPE-EPDM thermoplastic vulcanizates.
Mechanical and IR spectrometric properties

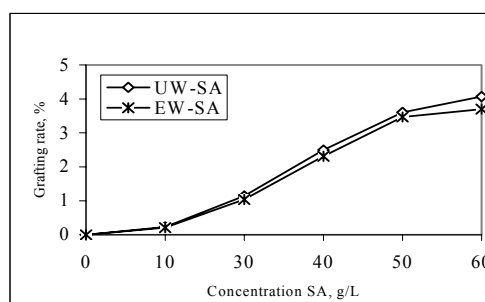


Rev. Roum. Chim., 2008, 53(11), 1051-1057

Key words: HDPE/EPDM thermoplastic vulcanizates.

Ruxanda BODÎRLĂU and
Carmen-Alice TEACĂ

Softwood chemical modification by reaction with
organic anhydrides

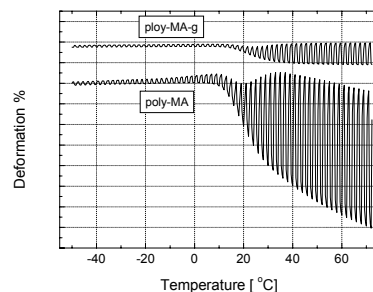


Rev. Roum. Chim., 2008, 53(11), 1059-1064

Key words: softwood, chemical modification; FT-IR; weight percent gain; water absorption.

Zaki AJJI

Radiation-induced preparation of gypsum/
poly(methyl acrylate) composites

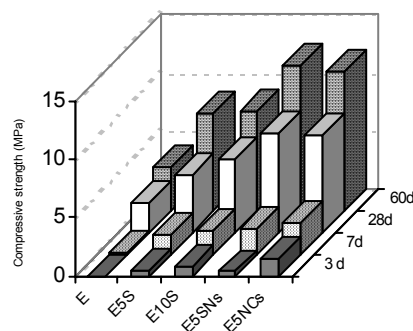


Rev. Roum. Chim., 2008, 53(11), 1065-1068

Key words: gypsum, polymer composites, methyl acrylate, radiation polymerization.

Annemarie PURI, Alina BĂDĂNOIU and
Georgeta VOICU

Eco-friendly binders based on fly ash



Rev. Roum. Chim., 2008, 53(11), 1069-1075

Key words: fly ash, lime, alkali-activated binders, sodium silicate.

