

# REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

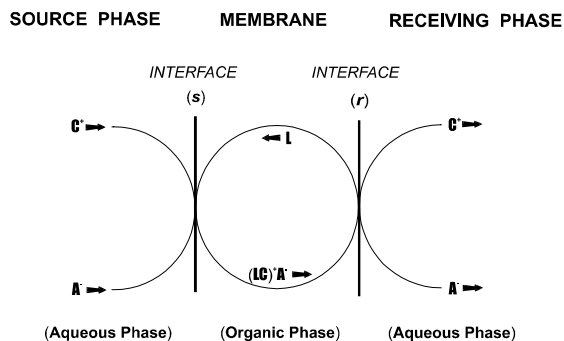
Tome 51, N°11

Novembre 2006

## REVIEW

Lucia MUTIHAC, Cristian BALTARIU, Atena HOTARANU and Radu MUTIHAC

Liquid membranes involved in some biological compounds separation



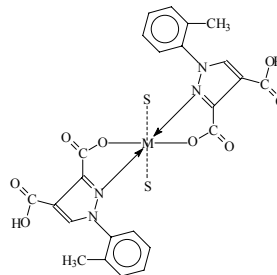
Rev. Roum. Chim., 2006, 51(11), 1041-1051

**Key words:** liquid membrane; crown ethers; modified cyclodextrins; calix[n]arenes; biological compounds; separation.

## PAPERS

Florica ZĂLARU, Florea DUMITRĂȘCU, Christina ZĂLARU, Maria PLĂVEȚI and Mihai CONTINEANU

Coordination compounds of Cu(II), Ni(II), Zn(II) with 1-(2-methyl-phenyl)-pyrazole-3,4-dicarboxylic acid

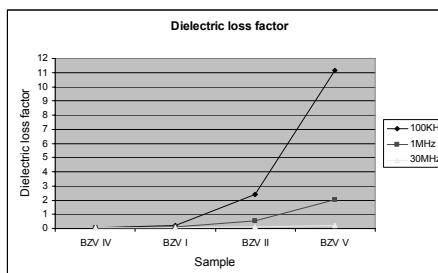


Rev. Roum. Chim., 2006, 51(11), 1053-1057

**Key words:** pyrazole derivative; metal(II) chelates; EPR; IR; electronic spectra.

Bogdan Alexandru SAVA

The study of the vitreous materials obtained by the sol-gel method, in the ternary ZnO-V<sub>2</sub>O<sub>5</sub>-B<sub>2</sub>O<sub>3</sub> system

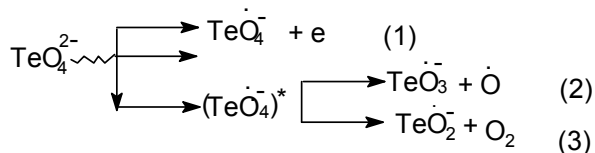


Rev. Roum. Chim., 2006, 51(11), 1059-1067

**Key words:** zinc oxide-vanadium oxide-boron oxide; sol-gel; dielectric properties; TG-DTA; FTIR.

Mihai CONTINEANU and Ana NEACȘU

Radical species formed by gamma radiolysis of polycrystalline telluric acid

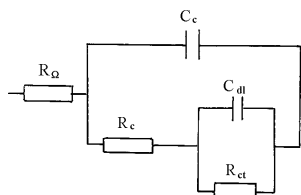


**Key words:** paramagnetic centers; ionizing radiation; radiolysis; thermal disappearance; hyperfine splitting.

*Rev. Roum. Chim.*, 2006, 51(11), 1069-1078

Mihai V. POPA, Paula DROB, Ecaterina VASILESCU, Agustin SANTANA LOPEZ, Cora VASILESCU and Julia Claudia MIRZA ROSCA

Improvement of alkyd film performance with mineral pigments

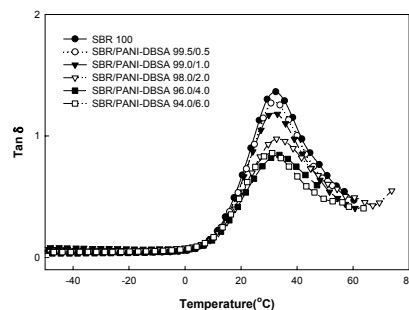


**Key words:** organic films; mineral pigments; electric equivalent circuit; electrochemical techniques.

*Rev. Roum. Chim.*, 2006, 51(11), 1079-1086

Chan-Young PARK, Young-Se OH, Sang-Hyun BAEK, Tae-Young KIM and Soong-Hyuck SUH

Electrical and mechanical properties of polyaniline-DBSA/SBR latex blends

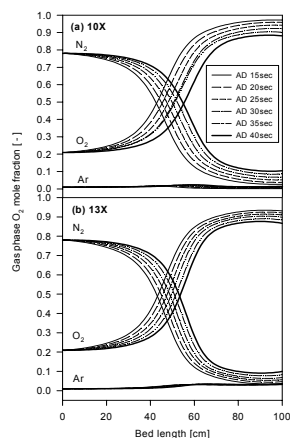


**Key words:** SBR latex; polyaniline-dodecylbenzene sulfonic acid; conducting polymer.

*Rev. Roum. Chim.*, 2006, 51(11), 1087-1094

Jeong-Geun JEE, Jin-Hwan JUNG, Jae-Wook LEE, Soong-Hyuck SUH and Chang-Ha LEE

Comparison of vacuum swing adsorption process for air separation using zeolite 10X and 13X

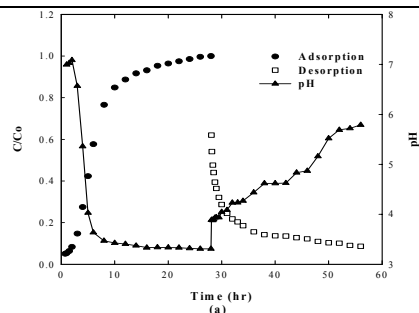


**Key words:** vacuum swing adsorption; zeolite 10X; zeolite 13X; air separation; oxygen.

*Rev. Roum. Chim.*, 2006, 51(11), 1095-1108

**Tae-Young KIM, Sung-Yong CHO, Seung-Jae KIM, Young-Se OH and Soong-Hyuck SUH**

Adsorption and desorption characteristics of chlorinated phenoxyacetic acids onto the activated carbon

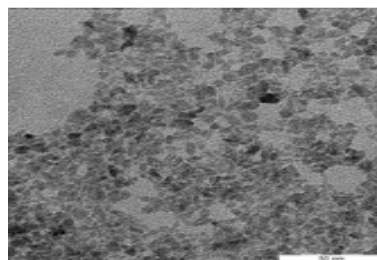


*Rev. Roum. Chim.*, **2006**, 51(11), 1109-1120

**Key words:** adsorption/desorption; chlorophenoxyacetic acid; 2-methyl-4-chlorophenoxyacetic acid; activated carbon.

**Jong-Pyo KIM, Il-Hoon CHO, In-Tae KIM, Chul-Ung KIM, Nam Ho HEO and Soong-Hyuck SUH**

Manufacturing of anti-viral inorganic materials from colloidal silver and titanium oxide



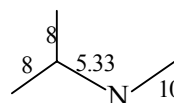
**Synthesis(TiO<sub>2</sub>/Silver)**

*Rev. Roum. Chim.*, **2006**, 51(11), 1121-1129

**Key words:** colloidal silver; titanium oxide; anti-bacterial; anti-viral; composite; blending.

**Zoița BERINDE**

Vertex- and edge- weighted molecular graphs for amines



*Rev. Roum. Chim.*, **2006**, 51(11), 1131-1135

**Key words:** molecular graph; weighted electronic distance; weighted electronic connectivity matrix; ZEP topological index; amines.