

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

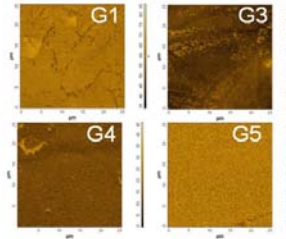
Tome 55, N° 3

Mars 2010

## PAPERS

Elena IENEL, Luminița ISAC and Anca DUȚĂ

Synthesis of alumina thin films by spray pyrolysis

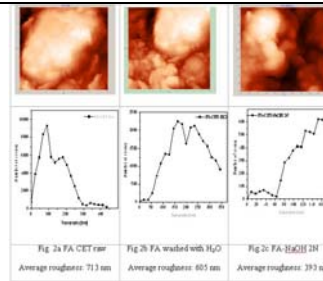


Rev. Roum. Chim., 2010, 55(3), 161-165

**Key words:** alumina thin films, spray pyrolysis deposition, optical properties, surface morphology, solar selective coating.

Maria VIȘA and Anca DUȚĂ

Adsorption behavior of cadmium and copper compounds on a mixture FA:TiO<sub>2</sub>

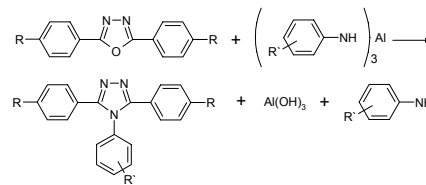


Rev. Roum. Chim., 2010, 55(3), 167-173

**Key words:** fly ash, TiO<sub>2</sub>, cadmium, copper, advanced removal, wastewater treatment, and adsorption.

Constantin I. CHIRIAC, Fulga TANASA and Marioara NECHIFOR

A novel synthesis of 3,4,5-triaryl-1,2,4-4*H*-triazoles from 2,5-diaryl-1,3,4-oxadiazoles and aluminium anilides

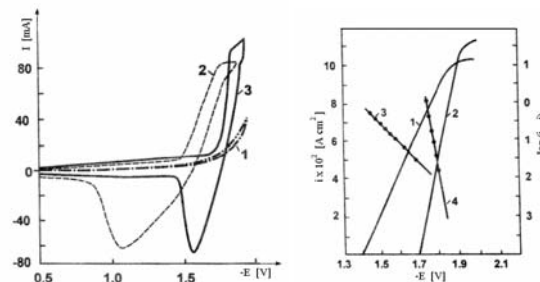


Rev. Roum. Chim., 2010, 55(3), 175-177

**Key words:** novel synthesis; 3,4,5-triaryl-1,2,4-4*H*-triazoles; aluminium anilides.

Victor MALYSHEV, Angelina GAB, Alevtina IZVARINA<sup>a,b</sup>, Ana-Maria POPESCU and Virgil CONSTANTIN

Electroreduction of potassium fluorozirconate on the background of chloride and chloride-fluoride melts

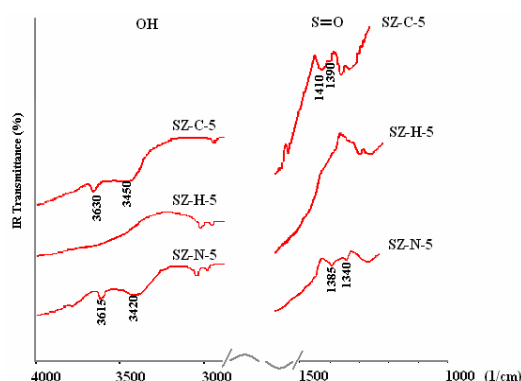


Rev. Roum. Chim., 2010, 55(3), 179-185

**Key words:** potassium fluorozirconate, electro-reduction, molten salts, chloro-fluoride melts.

**Aleksandra ZARUBICA, Paula PUTANOV and Goran BOSKOVIC**

Dominant roles of total acidity and sulfates density determining sulfated zirconia catalyst efficiency

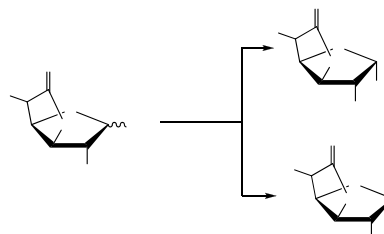


*Rev. Roum. Chim.*, 2010, 55(3), 187-192

**Key words:** catalyst efficiency, density of sulfates, isomerization of *n*-hexane, sulfated zirconia, total acidity.

**Catalina IONESCU, Azzam AWWAD, Véronique BARRAGAN and Jean-Louis MONTERO**

A selective synthesis of protected  $\alpha$ -D-glucofuranurono-6,3-lactone chloride using bismuth (III) chloride as catalyst

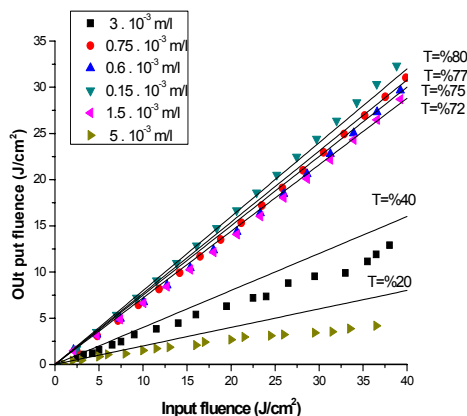


*Rev. Roum. Chim.*, 2010, 55(3), 193-197

**Key words:** -6,3-lactone chloride, selective halogenation, bismuth chloride (III), methyltrichlorosilane, anomeric center.

**Abdul W. ALLAF, Mohammed D. ZIDAN, Ali AL-ZIER, Dalal NAIMA, Ahmad ALLAHHAM and Zaki AJJI**

Optical limiting action in poly(ethylacetylenecarboxylate)

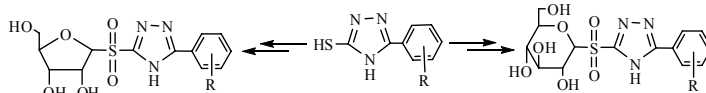


*Rev. Roum. Chim.*, 2010, 55(3), 199-204

**Key words:** optical limiting, different concentration, poly(ethylacetylenecarboxylate).

**Anca LASCU, Ioana ȘIȘU, Vasile BERCEAN, Alfa Xenia LUPEA, Miron T. CĂPROIU and Eugen ȘIȘU**

Mild and efficient method to obtain glycosyl sulfones of mercaptotriazole

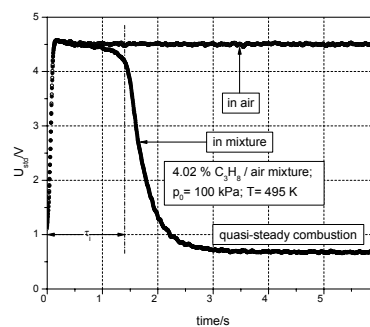


*Rev. Roum. Chim.*, 2010, 55(3), 205-210

**Key words:** S-glycoside, glycosyl sulfone, 3-mercapto-1,2,4-triazole, spectral data.

**Dumitru OANCEA, Octavian STAICU and Valentin MUNTEANU**

Kinetics of isothermal ignition of propane/air mixtures on platinum

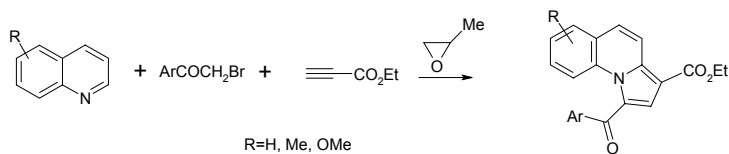


*Rev. Roum. Chim.*, **2010**, 55(3), 211-216

**Key words:** catalytic ignition, induction period, platinum wire, propane-air.

**Emilian GEORGESCU, Florea DUMITRAȘCU, Florentina GEORGESCU, Constantin DRĂGHICI and Marcel M. POPA**

Pyrrolo[1,2-*a*]quinoline derivatives via 1,3-dipolar cycloaddition of quinolinium *N*-ylides



*Rev. Roum. Chim.*, **2010**, 55(3), 217-221

**Key words:** multicomponent, 1,3-dipolar cycloaddition, *N*-ylide, pyrrolo[1,2-*a*]quinoline.