

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

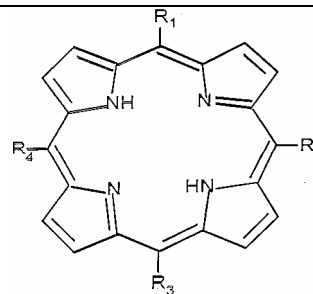
Tome 52, N° 12

Décembre 2007

REVIEW

Rodica-Mariana ION

Photodynamic therapy (PDT): a photochemical concept with medical applications



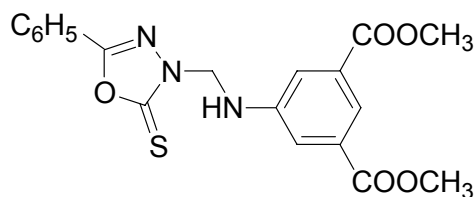
Rev. Roum. Chim., 2007, 52(12), 1093-1102

Key words: porphyrins, photodynamic therapy, singlet oxygen, porphyrins photodegradation, clinical applications.

PAPERS

Gheorghe ROMAN, Costel AGACHE, Ileana MANCIULEA, Eugenia COMANIȚĂ and Lucia DUMITRESCU

Synthesis of new Mannich bases derived from 5-phenyl-1,3,4-oxadiazole-2-thione and investigation of the conformational isomers of dimethyl 5-(5-phenyl-2-thioxo-1,3,4-oxadiazole-3-methylamino)isophthalate

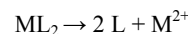


Rev. Roum. Chim., 2007, 52(12), 1103-1110

Key words: oxadiazolethione, aminomethylation, Mannish base, computational chemistry, conformational isomers.

Simona MUNTEAN, Ludovic KURUNCZI, Valentin CAREJA and Zeno SIMON

Dissociation energies in water solution for saline bonds implied in interactions mediated by peptidoglycans. AB initio – PCM computations

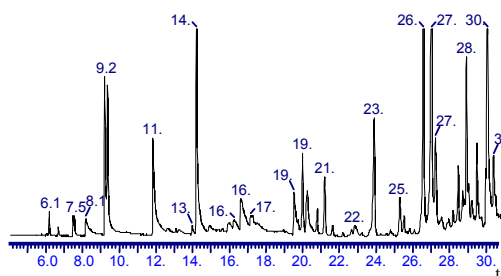


Rev. Roum. Chim., 2007, 52(12), 1111-1114

Key words: peptidoglycans, intercellular interaction, saline bond, hydration energy, dissociation energy.

Valeria RĂDULESCU, Mariana PAVEL and Eliza OPREA

Capillary GC-MS analysis of volatile and semi-volatile compounds of *Thymus glabrescens* willd.

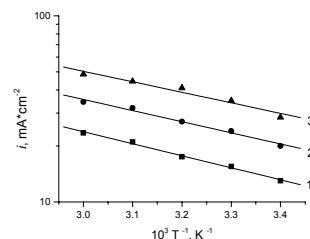


Rev. Roum. Chim., 2007, 52(12), 1115-1122

Key words: *Thymus glabrescens*, essential oil, infusion, solid phase extraction, GD/MS.

**Gabriela Elena BADEA, Ioana MAIOR,
Anca COJOCARU and Ion CORBU**

The cathodic evolution of hydrogen on nickel in artificial seawater

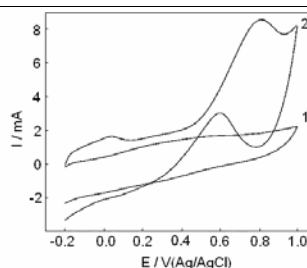


Rev. Roum. Chim., 2007, 52(12), 1123-1130

Key words: hydrogen evolution, nickel, seawater.

**Tanța SPĂTARU, Maria MARCU and
Nicolae SPĂTARU**

Composite electrode material with catalytic activity obtained by electrochemical deposition of polypyrrole and platinum on titanium substrates

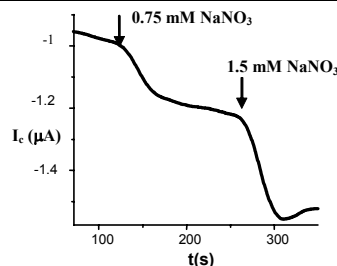


Rev. Roum. Chim., 2007, 52(12), 1131-1136

Key words: composite materials, polypyrrole deposition.

Stelian LUPU and Anton FICAI

Layer by layer deposition of redox polymers/enzyme assemblies onto electrodes surfaces for nitrate electrochemical sensing

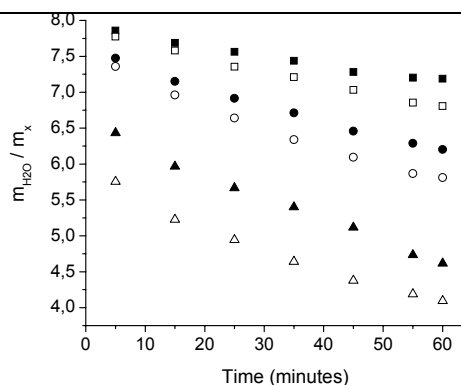


Rev. Roum. Chim., 2007, 52(12), 1137-1143

Key words: amperometric biosensors, layer-by-layer deposition, nitrate reductase, redox polymers.

**Silvia PAȚACHIA and
Claudia BACIU FLOREA**

Poly(vinyl alcohol) hydrogels interactions with electrolytes in aqueous solution

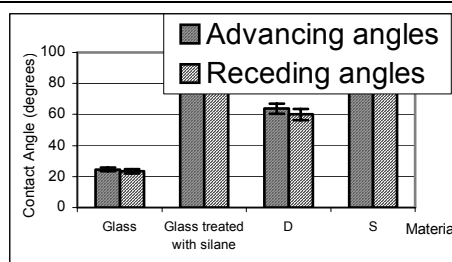


Rev. Roum. Chim., 2007, 52(12), 1145-1149

Key words: poly(vinyl alcohol), cryogels, electrolytes, swelling, shrinking.

**Daniela-Cristina MOMETE, Enrica VERNE,
Chiara VITALE BROVARONE,
Giulio MALUCELLI and
Dan-Sorin VASILESCU**

Polymeric composites for dentistry. II. Physical investigations on new dental composites

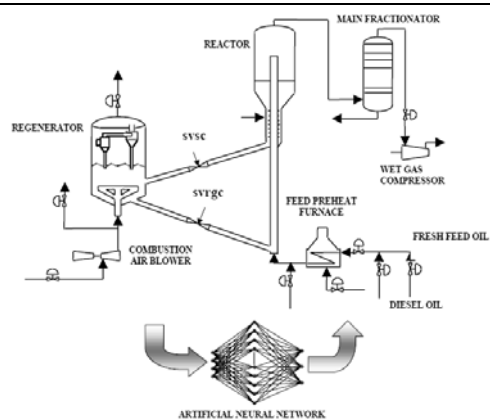


Rev. Roum. Chim., 2007, 52(12), 1151-1155

Key words: dental composites, glass, silanization, mechanical properties.

Vasile Mircea CRISTEA, Letiția TOMA and Paul Șerban AGACHI

Simulation and model predictive control of the fluid catalytic cracking unit using artificial neural networks



Rev. Roum. Chim., **2007**, 52(12), 1157-1166

Key words: artificial neural networks, model predictive control, FCCU.

Index of authors

Rev. Roum. Chim., **2007**, 52(12), 1167-1177

Index of subjects

Rev. Roum. Chim., **2007**, 52(12), 1179-1183

Costin D. Nenițescu Medal

Rev. Roum. Chim., **2007**, 52(12), 1185-1186

