

ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

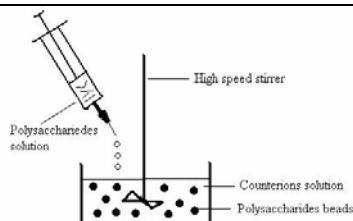
Tome 54, N° 9

Septembre 2009

REVIEW

Ștefania RACOVIȚĂ, Silvia VASILIU,
Marcel POPA and Cornelia LUCA

Polysaccharides based on micro- and nanoparticles obtained by ionic gelation and their applications as drug delivery systems



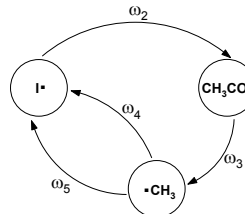
Key words: polysaccharides beads, ionotropic gelation method, drug delivery.

Rev. Roum. Chim., 2009, 54(9), 709-718

PAPERS

Eugen I. SEGAL

Applications of an algorithm to derive rate equations by means of kinetic graphs

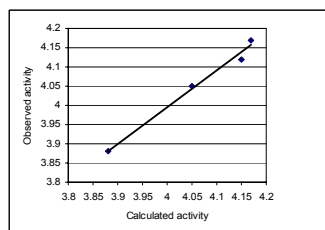


Key words: kinetic graph, quasisteady state approximation, linear mechanism.

Rev. Roum. Chim., 2009, 54(9), 719-722

Doroteia VULPEȘ, Mihai V. PUTZ and
Adrian CHIRIAC

QSAR study on the anaesthetic activity of some barbiturates and thiobarbiturates

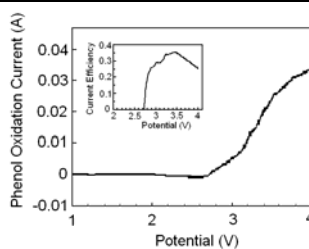


Key words: QSAR, regression analysis, anaesthetic activity, electronic and geometric descriptors, model with predictive power.

Rev. Roum. Chim., 2009, 54(9), 723-732

Tanța SPĂȚARU

Electrochemical deposition of hydrous ruthenium oxide on conductive diamond films and its application to phenol oxidation in acidic media

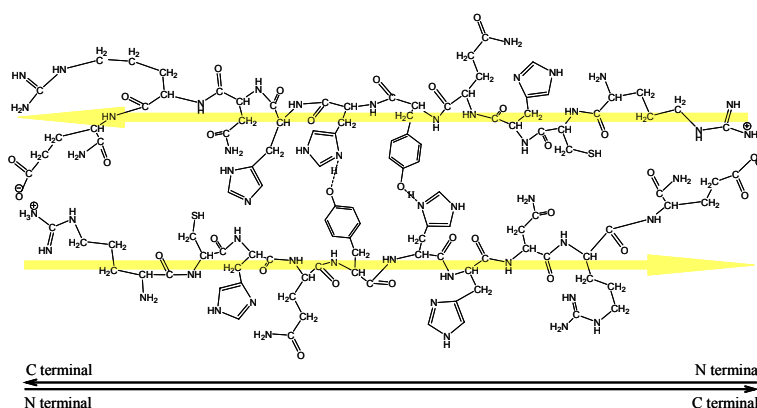


Key words: hydrous ruthenium oxide, composite materials, conductive diamond, phenol oxidation.

Rev. Roum. Chim., 2009, 54(9), 733-739

**Manuela MURARIU, Karin POPA,
Ecaterina-Stela DRĂGAN and
Gabi DROCHIOIU**

Synthetic cysteine-peptide and its relation with heavy and radioactive metals



Key words: peptide synthesis, mass spectrometry, circular dichroism, atomic force microscopy, Mercury-203, radiotoxicity, glutathione.

Rev. Roum. Chim., 2009, 54(9), 741-747

**Roxana DONE, Ioana STĂNCULESCU and
Cristina MANDRAVEL**

Actual trends in threshold limit values evaluation: application to halogen containing compounds using multilinear regression method

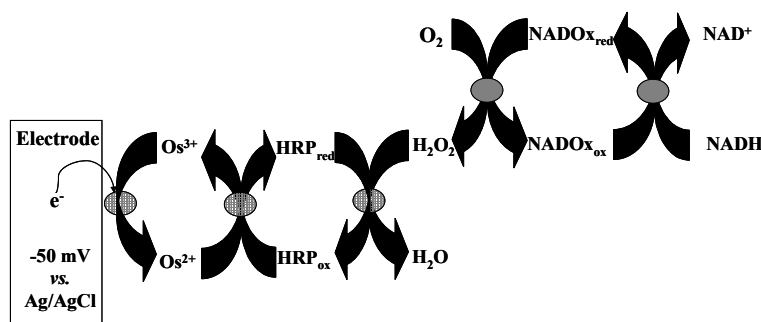
$$\log TLV = a_0 + \sum_{i=1}^{5,6} a_i X_i$$

Rev. Roum. Chim., 2009, 54(9), 749-753

Key words: Threshold Limit Values (TLV's); multilinear regression method (MLR); halogenated alkanes; molecular modeling.

**Laura MUREȘAN, Mihaela NISTOR,
Elisabeth CSÖREGI and
Ionel Cătălin POPESCU**

Reagentless amperometric biosensor for NADH detection

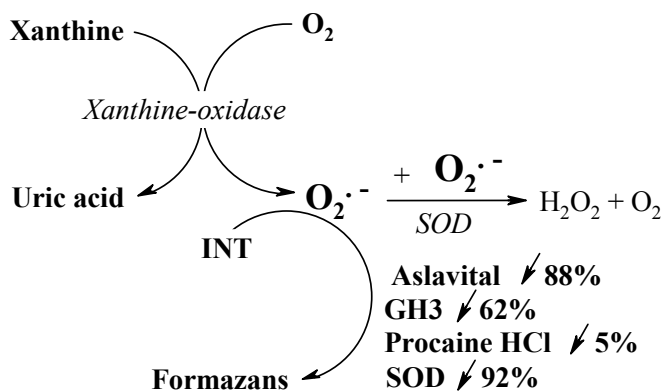


Rev. Roum. Chim., 2009, 54(9), 755-760

Key words: amperometric biosensors, NAD_{ox}, NADH detection, Os-redox polymer.

**Daniela GRĂDINARU, Denisa MARGINĂ
and Claudia BORȘA**

In vitro studies regarding the antioxidant effects of procaine, Gerovital H3 and Aslavital

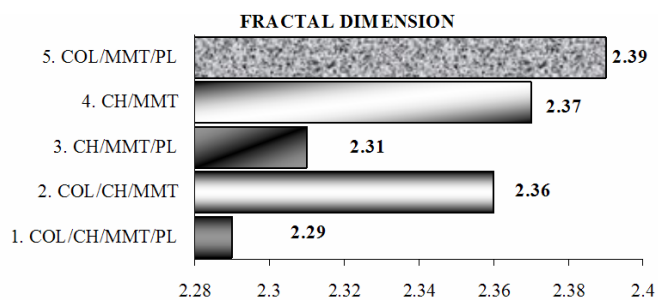


Rev. Roum. Chim., 2009, 54(9), 761-766

Key words: antioxidant, superoxide radical, conjugated dienes.

Viorica-Niculina STĂNESCU,
Mihaela OLTEANU,
Manuela FLOREA-SPIROIU and
Zina VULUGA

Fractal properties of
 collagen/chitosan/montmorillonite membranes

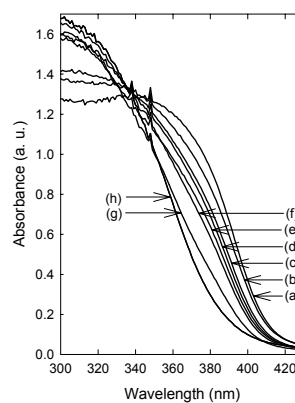


Rev. Roum. Chim., 2009, 54(9), 767-771

Key words: fractal dimension, collagen, chitosan, montmorillonite.

Jae Young BAE, Tae Kwan YUN,
Sung Soo HAN, Byung Gil MIN,
Imre BAKO and Soong-Hyuck SUH

Fabrication and characteristics of variable
 crystalline TiO₂ for photocatalytic activities



Rev. Roum. Chim., 2009, 54(9), 773-778

Key words: nanocrystalline, anatase, rutile, catalysis, photodegradation.

