

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

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REVIEW

Alexandru T. BALABAN

Brief review of contributions to experimental organic chemistry

Dr. Alexandru T. Balaban presents briefly his main experimental contributions to organic chemistry:

1. Introduction and biographical sketch
2. Lewis-acid catalyzed reactions: mechanism of the Scholl reaction
2,5-diaryloxazole syntheses
3. Synthesis of pyrylium salts, pyridinium salts and pyridines
4. Synthesis of indolizines
5. Isotopically labeled compounds
6. Isotope effects using pyrylium salts and pyridines
7. A non-nucleophilic pyridine due to a double Janus effect
8. Uses of new pyridinium salts: ionic liquids as non-volatile solvents; cationic lipids as gene transfer agents
9. Further uses of pyridinium salts: triaryl-ethylenic anti-tumor agents and carbonic anhydrase inhibitors
10. 2-Acylofuran and 2-oxazolin-4-one derivatives
11. Olefin metathesis and ring-opening polymerization of cyclo-olefins
12. Stable nitrogen-centered push-pull free radicals
13. Nitroxides and donors of nitric oxide
14. Compounds derived from benzofurazan
15. Compounds derived from crown ethers
16. Boron-containing conjugated compounds
17. Automerizations of phenanthrene and arsenic-containing compounds
18. Miscellanea
19. Conclusions
20. References

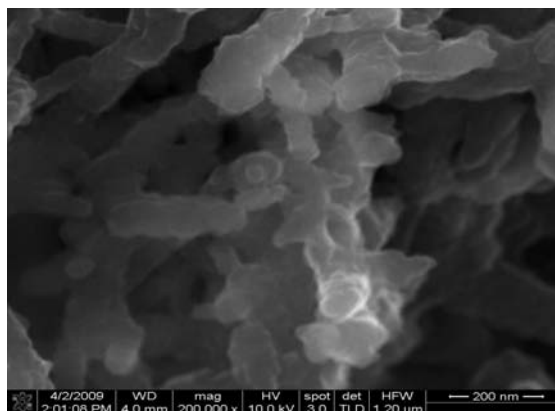
Rev. Roum. Chim., 2012, 57(6), 535-557

Key words: pyrylium and pyridinium salts, isotope effects, stable aminyls and nitroxides, boron chelates, automerizations of benzenoids.

PAPERS

Carmen MOLDOVAN, Rodica IOSUB,
Anton MANOLESCU, Anca MANOLESCU
and Cornel RADU

Polyaniline nanofiber based device on flexible substrate

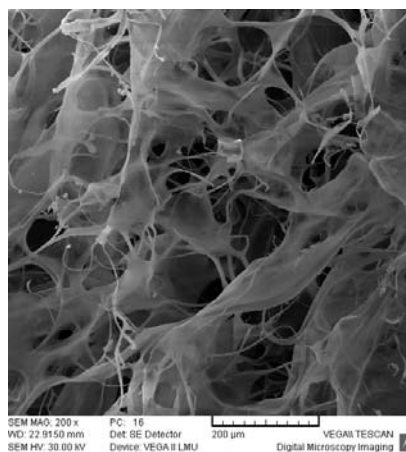


Rev. Roum. Chim., 2012, 57(6), 559-567

Key words: flexible polymeric substrate, nanofiber conductive polyaniline, gold electrode microtechnology.

Dorin ȘULEA, Mădălina Georgiana ALBU, Minodora LECA, Maria MIHALACHE, Lăcrămioara POPA and Mihaela Violeta GHICA

Collagen-thuja tincture biomaterials for wound treatment. 4. Porous matrices containing thuja tincture and chlorhexidine digluconate

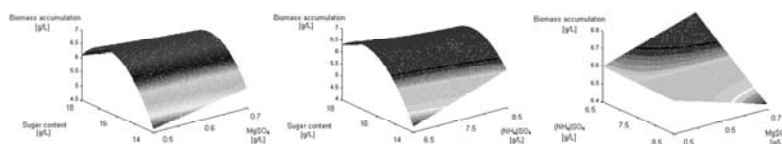


Key words: collagen matrices, FT-IR characterization, SEM characterization, CHDG delivery.

Rev. Roum. Chim., 2012, 57(6), 569-575

Andrei I. SIMION, Paula E. DOBROVICI, Lăcrămioara RUSU, Lucian GAVRILĂ and Domnica CIOBANU

New possibilities for the valorization of sugar industry by-products

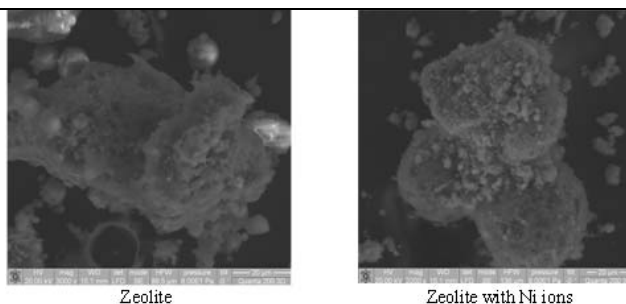


Key words: sugar beet, beet-pulp, fodder yeast, biomass, environmental pollution.

Rev. Roum. Chim., 2012, 57(6), 577-586

Maria HARJA, Lăcrămioara RUSU, Daniel BUCUR, Corneliu MUNTEANU and Ramona Carla CIOCINTA

Fly ash-derived zeolites as adsorbents for Ni removal from waste water

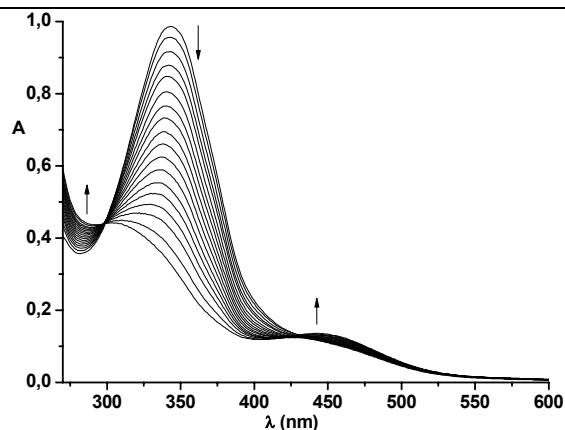


Key words: adsorbent, characterization, fly ash, Ni removal, zeolite.

Rev. Roum. Chim., 2012, 57(6), 587-597

Nicusor FIFERE, Anton AIRINEI, Mihaela HOMOCIANU, Constantin GAINA, Viorica GAINA and Bogdan C. SIMIONESCU

Isomerization characteristics of some azobismaleimides

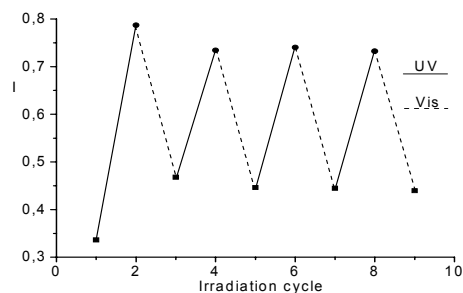


Key words: azobismaleimide, trans-cis-trans isomerization, photokinetics, electronic absorption spectra, solvent effect.

Rev. Roum. Chim., 2012, 57(6), 599-607

Nicușor FIFERE, Anton AIRINEI,
Constantin GAINĂ, Viorica GAINĂ,
Mircea GRIGORAȘ and
Bogdan C. SIMIONESCU

Effect of *trans-cis* photoisomerization
of azobismaleimide derivatives on the emission
intensity of an aryleneimine fluorophore

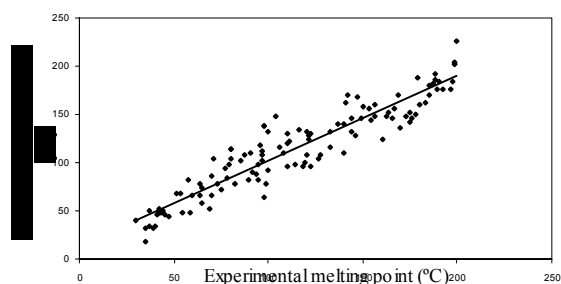


Rev. Roum. Chim., 2012, 57(6), 609-614

Key words: azobenzene, *trans-cis* isomerization, photomodulation,
fluorescence.

Kamal KOR, Kobra ZAREI and
Morteza ATABATI

Shuffling multivariate adaptive regression splines
for QSPR correlation of the melting point of
pyridinium bromides, potential ionic liquids

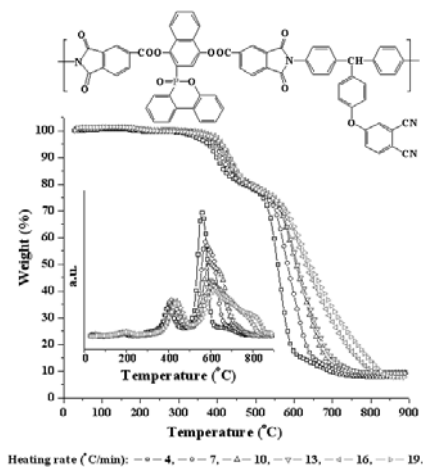


Rev. Roum. Chim., 2012, 57(6), 615-622

Key words: ionic liquid, pyridinium bromides, melting point, QSPR, MARS.

Ionela-Daniela CARJA, Corneliu HAMCIUC,
Elena HAMCIUC, Tăchiță VLAD-BUBULAC,
Diana SERBEZEANU and Gabriela LISA

Phosphorus-containing poly(ester imide)
with pendant phthalonitrile groups



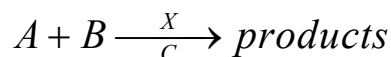
Key words: poly(ester imide), phosphorus-containing polymers,
phthalonitrile groups, thermal stability, flame retardant,
thermal degradation kinetics.

Rev. Roum. Chim., 2012, 57(6), 623-628

NOTE

Niculae I. IONESCU

Role of the adsorbed carbon in heterogeneous
catalytic oscillatory reactions



Rev. Roum. Chim., 2012, 57(6), 629-632

Key words: oscillations, adsorbed carbon reactions.

