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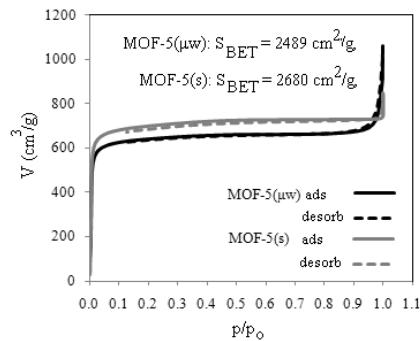
Catalysis in Roumania 2011

Rev. Roum. Chim., 2011, 56(6), 581-582

PAPERS

Gabriela BLĂNIȚĂ, Ovidiu ARDELEAN,
Dan LUPU, Gheorghe BORODI,
Maria MIHET, Maria COROS,
Mircea VLASSA, Ioan MIȘAN,
Ioan COLDEA and Gabriel POPENECIU

Microwave assisted synthesis of MOF-5
at atmospheric pressure

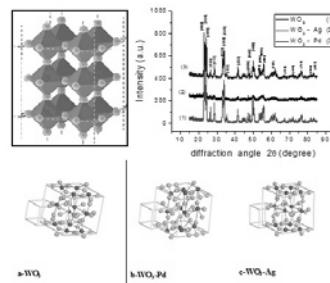


Rev. Roum. Chim., 2011, 56(6), 583-588

Key words: metal-organic framework, MOF-5, microwave synthesis at ambient pressure.

Emil INDREA, Ecaterina BICA,
Elisabeth-Jeanne POPOVICI,
Ramona-Crina SUCIU,
Marcela Corina ROŞU and
Teofil-Danuț SILIPAŞ

Rietveld refinement of power X-ray diffraction of
nanocrystalline noble metals – tungsten trioxide

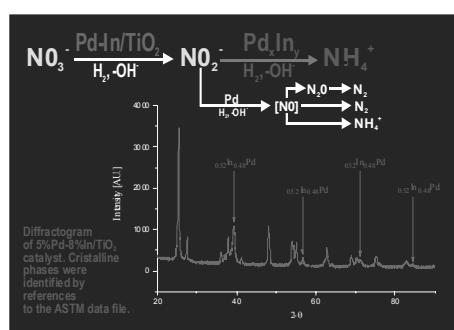


Rev. Roum. Chim., 2011, 56(6), 589-593

Key words: photocatalysts, tungsten trioxide, sol-gel, microstructure, Rietveld method.

Natasza KRAWCZYK, Izabela WITONSKA,
Aleksandra KRÓLAK, Magdalena FRAJTAK
and Stanislaw KARSKI

Catalytic hydrogenation of nitrates on
Pd-In/TiO₂ catalysts

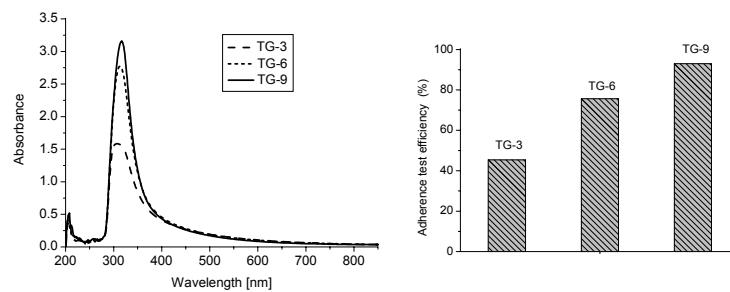


Rev. Roum. Chim., 2011, 56(6), 595-600

Key words: nitrate removal, Pd-In/TiO₂ catalysts, catalytic denitrification.

**Marcela-Corina ROŞU,
Ramona-Crina SUCIU,
Simina-Virginia DREVE,
Teofil-Dănuț SILIPAŞ, Ioan BRATU and
Emil INDREA**

The influence of TiO_2 content in preparation of TiO_2 /ITO nanostructured films

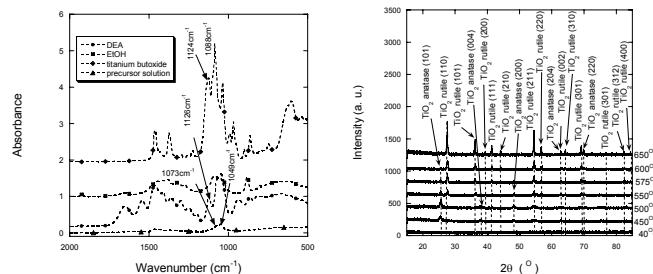


Key words: TiO_2 , photocatalyst, photocatalytic activity, nanostructured films.

Rev. Roum. Chim., 2011, 56(6), 601-605

**Ramona-Crina SUCIU,
Marcela-Corina ROŞU,
Teofil-Dănuț SILIPAŞ,
Alexandru Radu BIRIŞ, Ioan BRATU and
Emil INDREA**

TiO_2 thin films prepared by spin coating technique

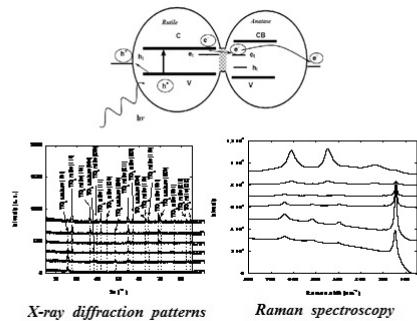


Key words: sol-gel, titanium diethanolamine complex, photocatalysts, microstructure, TiO_2 .

Rev. Roum. Chim., 2011, 56(6), 607-612

**Emil INDREA, Ramona-Crina SUCIU,
Marcela-Corina Roşu and
Teofil-Dănuț SILIPAŞ**

Rietveld analysis of nanocrystalline titania prepared by sol-gel method

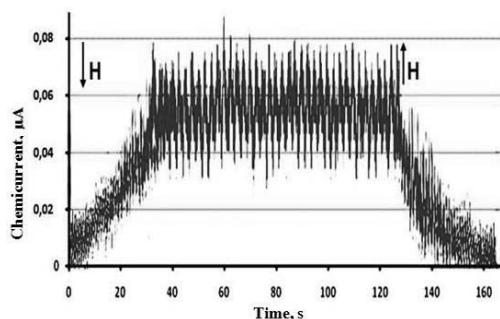


Key words: photocatalysts, nanocrystalline titania, sol-gel, microstructure, Rietveld method.

Rev. Roum. Chim., 2011, 56(6), 613-618

**Vladislav V. STYROV and
Sergei V. SIMCHENKO**

A means for insight into the nonequilibrium electronic processes during heterogeneous chemical reactions

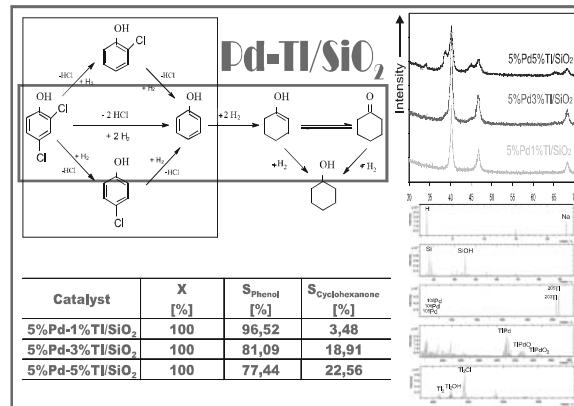


Key words: selenium, p-n junction, chemicurrent, atomic hydrogen, nonequilibrium states in catalysis.

Rev. Roum. Chim., 2011, 56(6), 619-624

Aleksandra KRÓLAK, Izabela WITOŃSKA,
Natasza KRAWCZYK, Magdalena FRAJTAK
and Stanisław KARSKI

Stability of Pd/SiO₂ and Pd-Tl/ SiO₂ catalysts in hydrodechlorination of 2,4-dichlorophenol

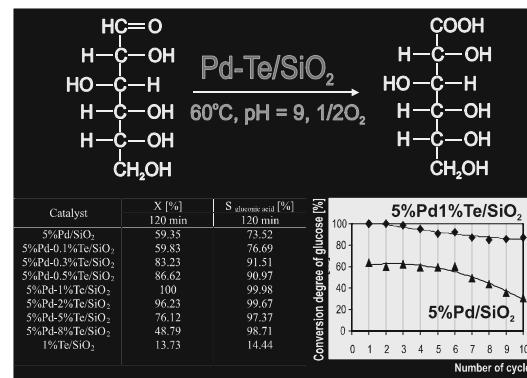


Key words: catalytic dehydrogenation, Pd-Tl/SiO₂ catalysts, hydrodechlorination of 2,4-dichlorophenol.

Rev. Roum. Chim., 2011, 56(6), 625-630

Magdalena FRAJTAK, Izabela WITOŃSKA,
Aleksandra KRÓLAK, Natasza KRAWCZYK
and Stanisław KARSKI

The influence of tellurium addition to supported palladium catalysts on their catalytic properties in glucose oxidation

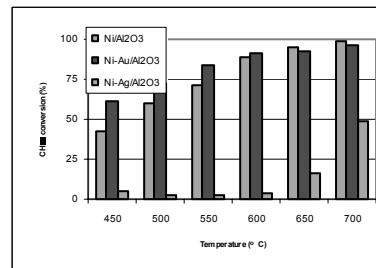


Rev. Roum. Chim., 2011, 56(6), 631-635

Key words: catalytic oxidation, Pd-Te/SiO₂ catalysts, oxidation of glucose.

Mihaela D. LAZAR, Monica DAN,
Maria MIHET, Valer ALMASAN,
Vasile REDNIC and George BORODI

Hydrogen production by low temperature methane steam reforming using Ag and Au modified alumina supported nickel catalysts

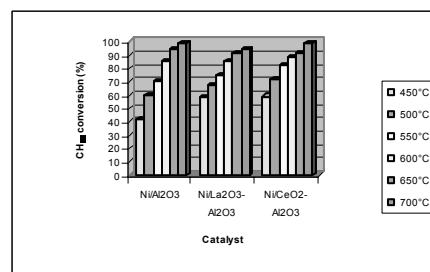


Key words: hydrogen, methane steam reforming, Ni-Au catalysts, Ni-Ag catalysts.

Rev. Roum. Chim., 2011, 56(6), 637-642

Monica DAN, Mihaela D. LAZAR,
Vasile REDNIC, Valer ALMASAN

Methane steam reforming over Ni/Al₂O₃ promoted by CeO₂ and La₂O₃



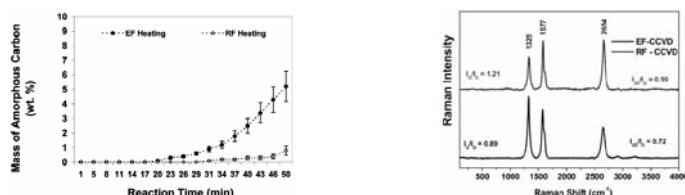
Key words: hydrogen, methane steam reforming, oxide promoted Ni catalysts.

Rev. Roum. Chim., 2011, 56(6), 643-649

**Ştefania ŞIMON, Alexandru R. BIRIŞ,
Dan M. LUPU, Ioan MIŞAN,
Alexandru S. BIRIŞ, Simona CLICHICI and
Cornel IANCU**

Carbon nanotubes *via* catalytic chemical vapor deposition method using induction heating – an advantageous route

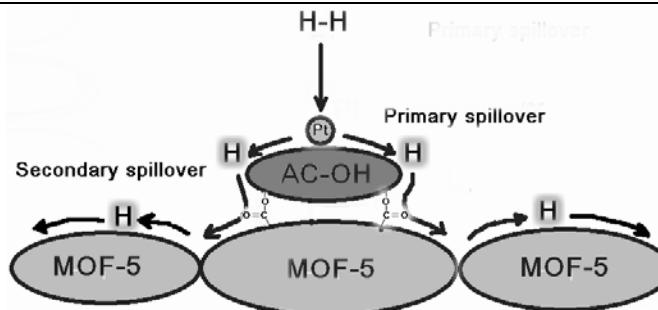
Rev. Roum. Chim., 2011, 56(6), 651-654



Key words: RF-CCVD, EF-CCVD, MWCNT, SWCNT.

**Ovidiu ARDELEAN, Gabriela BLĂNIȚA,
Maria MIHET, Ioan COLDEA, Dan LUPU,
and Petru PALADE**

Supported Pt and Pd catalysts as additive for hydrogen adsorption enhancement in MOFs

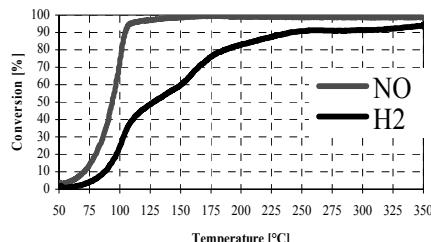


Rev. Roum. Chim., 2011, 56(6), 655-657

Key words: metal-organic frameworks, spillover, hydrogen adsorption.

**Maria MIHET, Mihaela D. LAZĂR,
Valer ALMĂȘAN and Gheorghe BORODI**

Low temperature hydrogen selective catalytic reduction of NO and Pd/Al₂O₃

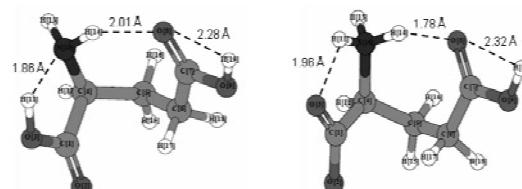


Rev. Roum. Chim., 2011, 56(6), 659-665

Key words: NOx, H₂-SCR, Pd/Al₂O₃, NO-TPD.

**Adriana VULCU, Camelia BERGHIAN
GROSAN, Maria CHIRIAC and
Valer ALMASAN**

The ¹⁵N labelled L-glutamic acid: experimental and computational NMR studies

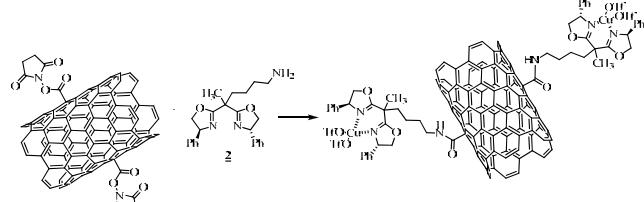


Rev. Roum. Chim., 2011, 56(6), 667-674

Key words: L-[¹⁵N]-glutamic acid, biosynthesis, NMR, DFT, B3LYP.

**Ahmed MOUSSAIF, Roberto MARTIN,
Youssef RAMLI, Rachid ZNIBER,
Redouane ACHOUR, Mostafa EL GHOUŁ,
Mercedes ALVARO and
Hermenegildo GARCIA**

Chiral bis(oxazoline)copper(II) covalently anchored to single wall carbon nanotube as recoverable catalyst for enantioselective Friedel-Crafts hydroxyalkylation



Key words: single wall carbon nanotubes, soluble single wall carbon nanotubes, enantioselective catalysts, chiral bisoxazolines, recoverable homogeneous catalysts.

Rev. Roum. Chim., 2011, 56(6), 675-679