Nesrinne SEDDIKI, Djamel ALIOUCHE and Imene BOUDHENE

Preparation of nanocomposite hydrogels with nanoclay: characterization, swelling properties and dye adsorption behavior

Key words: hydrogel nanocomposite, polyacrylamide, Laponite clay, adsorption, cationic dye.

Ana-Maria PUTZ, Jiri PLOCEK, Petr BEZDICKA and Cecilia SAVII

Small-angle X-ray powder diffraction analyses, microstructure and morphology of some synthesized template silica samples related to the 2-methoxyethanol content

Key words: mesoporous silica, X-ray powder diffraction, MCM-41, MCM-48.

Zhenhua FENG, Lianying AN, Zhenggen HUANG, Xianyin ZHAO and Bengao WANG

Catalytic synthesis of 4-methyl-2-(α-methyl benzyl) phenol over Fe-Al-MCM-41 for extraction-separation rubidium from brine

Key words: Fe-Al-MCM-41, 4-methyl-2-(α-methyl benzyl) phenol, rubidium, extraction.

Imed EDDI and Lemnouer CHIBANE

Parametric study of high temperature water gas shift reaction for hydrogen production in an adiabatic packed bed membrane reactor

Key words: hydrogen production, HT-water gas shift, adiabatic reactor, Pd-Ag membrane, pure hydrogen.
Hadis KHODADAD, Khalil POURSHAMSIAN, Farhad HATAMJAFARI and Babak SADEGHI

Synthesis of some new N-acetylated pyrazoline derivatives via the efficient one-pot reaction by using p-tolueneisulfonic acid

Key words: pyrazoline derivatives, one-pot reaction, FT-IR, NMR spectral data, elemental analysis, p-tolueneisulfonic acid.

Marwa BEN HMED, Ghayth RIGANE, Ridha BEN SALEM, Nacim ZOUARI and Slim CHERIF

Phytochemical and antioxidant activities of Schinus molle L. extract

Key words: Schinus molle L., root, phenolic compounds, flavonoid, Rutin.

Moemen CHIRA, Ghayth RIGANE, Carole CALAS-BLANCHARD, Régis ROUILLON and Ridha BEN SALEM

Phenolic, tocopherols and squalene profiles (HPLC-UV) of Chemlali-Sfax olive oil according to extraction procedure

Key words: microwave treatment, olive oil, fast preheating, sodium citrate, total phenols.

Emrah DURAL

Monitorization of patulin and hydroxymethylfurfural in fruit juice and commercial fruity baby foods by an HPLC-DAD method

Key words: patulin, hydroxymethylfurfural, apple based-fruit juice, fruity baby food, HPLC–DAD.

Cem ÖNAL, Emrullah BINAY and Armağan ÖNAL

Development and validation of a stability-indicating ultra-fast liquid chromatographic analysis for the simultaneous determination of fenticonazole and its related substances in pharmaceutical formulations

Key words: fenticonazole, ultra-fast liquid chromatography, stability-indicating, validation, quality control analysis.
Ioana Maria MOISE, Viorica MELTZER and Elena PINCU

A study on pellets as an alternative source of energy for fossil fuel using adiabatic combustion calorimetry

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Key words: biomass pellets, fossil fuel, combustion calorimetry.