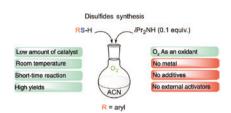
In this issue

Krzysztof Kuciński and Grzegorz Hreczycho

Diisopropylamine as a single catalyst in the synthesis of aryl disulfides

DOI 10.1515/gps-2016-0205 Green Process Synth 2018; 7: 12–15 **Original article:** The oxidative coupling of aryl thiols was carried out in the presence of catalytic amount of *i*Pr₂NH in air (room temperature) in acetonitrile, without metal catalysts, additives, or external activators.

Keywords: amines; base catalysis; disulfides; oxidative coupling; thiols.

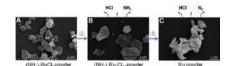


Zena Xin, Panchao Zhao, Jialin Chen, Yaohong Ma, Ying Xu, Hao Cui and Wei Yi

Processing and properties of highpurity micro-lamellate (NH₄)₂RuCl₆ particles

DOI 10.1515/gps-2016-0128 Green Process Synth 2018; 7: 16-22 **Original article:** High-purity microlamellate (NH₄)₂RuCl₆ particles from crude Ru powder were achieved through the chemical separation method. The thermal decomposition behavior of (NH₄)₂RuCl₆ was analyzed by TG-DTA-MS combined with the HTXRD and SEM techniques.

Keywords: (NH₄)₂RuCl₆; HTXRD; ruthenium; TG-DTA-MS; thermal decomposition.

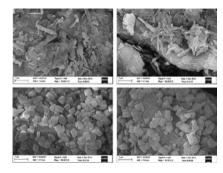


Yuting Bai, Wenyuan Wu and Xue Bian

Dynamic synthesis route of zeolite Y with kaolin to improve yield

DOI 10.1515/gps-2016-0172 Green Process Synth 2018; 7: 23–29 **Original article:** Zeolite NaY was successfully synthesized with kaolin by using a dynamic hydrothermal crystallization method; the yield of zeolite NaY was significantly improved and relative crystallinity reached 74.18%.

Keywords: dynamic crystallization; kaolin; structure-directing agent; zeolite.



Ramesh Vinayagam, Thivaharan Varadavenkatesan and Raja Selvaraj Green synthesis, structural characterization, and catalytic activity of silver nanoparticles stabilized with Bridelia retusa leaf extract

DOI 10.1515/gps-2016-0236 Green Process Synth 2018; 7: 30–37 **Original article:** For the first time, silver nanoparticles (SNPs) were synthesized from the leaf extract of *Bridelia retusa*, and the resulting SNPs showed potential catalytic activity to degrade Rhodamine B dye.

Keywords: *Bridelia retusa*; dye degradation; green synthesis; Rhodamine B; silver nanoparticles.

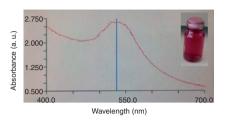


Maryam Eskandari-Nojedehi, Hoda Jafarizadeh-Malmiri and Javad Rahbar-Shahrouzi

Hydrothermal green synthesis of gold nanoparticles using mushroom (Agaricus bisporus) extract: physicochemical characteristics and antifungal activity studies

DOI 10.1515/gps-2017-0004 Green Process Synth 2018; 7: 38-47 **Original article:** Hydrothermal green synthesis of AuNPs was developed using edible mushroom extract.

Keywords: antifungal activity; edible mushroom; gold nanoparticles (AuNPs); green synthesis; hydrothermal process.

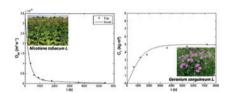


Evgeni Simeonov, Zvezdelina Yaneva and Chavdar Chilev

Kinetics of green solid-liquid extraction of useful compounds from plant materials: kinetics coefficients and modeling

DOI 10.1515/gps-2016-0179 Green Process Synth 2018; 7: 68-73 Original article: The kinetics of extraction of valuable target compounds from tobacco leaves (*Nicotiana tabacum* L.) and red geranium roots (*Geranium sanguineum* L.) at periodic conditions in a batch mode was experimentally investigated and satisfactorily modeled by a four-parameter empirical model for variable diffusivity.

Keywords: diffusion coefficient; kinetics; modeling; plant material; solid-liquid extraction.



Mihaela Roşca, Raluca-Maria Hlihor, Petronela Cozma, Elena Niculina Drăgoi, Mariana Diaconu, Bruna Silva, Teresa Tavares and Maria Gavrilescu

Comparison of *Rhodotorula* sp. and *Bacillus megaterium* in the removal of cadmium ions from liquid effluents

DOI 10.1515/gps-2016-0218 Green Process Synth 2018; 7: 74-88 Original article: A full comparison between two different types of dead biomasses was performed to demonstrate the ability in Cd(II) removal from liquid effluents, considering the influence of operating parameters, such as: pH, biosorbent dosage, contact time, temperature, initial metal concentration followed by a modeling approach based on linear regression with Durbin-Watson statistics.

Keywords: biosorption; Cd(II); microorganisms; modeling; statistical model.

