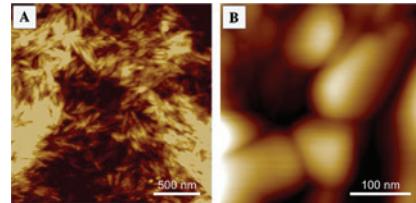


## In this issue

Parisa Pooyan, Luke P. Brewster, Rina Tannenbaum and Hamid Garmestani  
**Biomimetic synthesis of two different types of renewable cellulosic nanomaterials for scaffolding in tissue engineering**

DOI 10.1515/gps-2016-0196  
 Green Process Synth 2018; 7: 181–190

**Original article:** Inspired by the fascinating nanostructured assembly existing in the cell walls of different plant species, we designed two fully bio-based green nanomaterials reinforced with renewable polysaccharide nanoparticles in the form of cellulose nanowhiskers to extend the biomimetic design for scaffolding in tissue engineering applications.



**Keywords:** biomimetic design; cellulosic nanomaterials; mechanical percolation; nanotechnology; tissue engineering.

Shou-Feng Xue, Wen-Yuan Wu, Xue Bian, Zhen-Feng Wang and Yong-Fu Wu

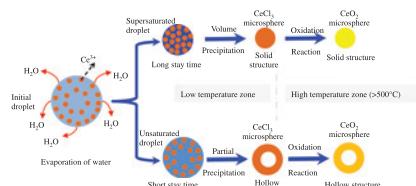
**Facile preparation of CeO<sub>2</sub> microspheres with high surface area by ultrasonic spray pyrolysis**

<https://doi.org/10.1515/gps-2017-0041>

Green Process Synth 2018; 7: 241–247

**Original article:** CeO<sub>2</sub> microspheres were successfully prepared by ultrasonic spray pyrolysis of CeCl<sub>3</sub> solution at 700°C. The prepared CeO<sub>2</sub> microspheres with a narrow distribution range of 0.09~3.86 μm and two basic structures of CeO<sub>2</sub> microsphere were reported.

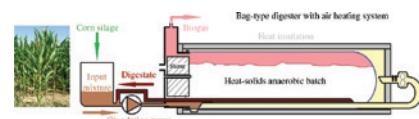
**Keywords:** CeCl<sub>3</sub>; CeO<sub>2</sub>; high surface area; microsphere; spray pyrolysis.



Jiří Rusín, Kateřina Kašáková and Kateřina Chamrádová  
**High-solids semi-continuous anaerobic digestion of corn silage in bag-type digester**

DOI 10.1515/gps-2017-0017  
 Green Process Synth 2018; 7: 268–276

**Original article:** The model test verified that by using a given bag-type horizontal fermenter configuration, it was possible to process the most common agricultural fibrous substrate, corn silage, with reasonable biogas output.



**Keywords:** biogas; bioreactor; corn silage; high-solids anaerobic digestion; horizontal bag-type digester.