

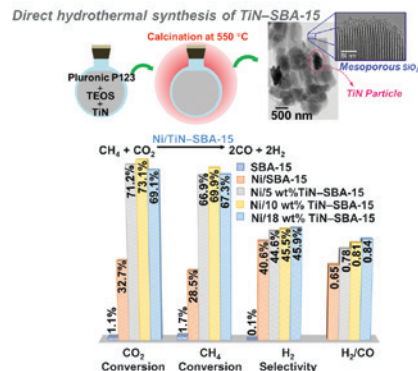
## In this issue

Maslin Chotirach, Supawan Tantayanon, Duangamol Nuntasri Tungasmita, Junliang Sun and Sukkaneste Tungasmita  
**Synthesis and characterizations of TiN–SBA-15 mesoporous materials for CO<sub>2</sub> dry reforming enhancement**

<https://doi.org/10.1515/pac-2019-0806>  
 Pure Appl. Chem. 2020; 92(4): 545–556

### Conference paper:

- TiN modified SBA-15 with high orderliness was synthesized using a one-step hydrothermal method.
- The introduction of TiN can stabilize a mesoporous structure of SBA-15 with a high surface area and enhance the total amount of basic sites.
- TiN modified SBA-15 has a high potential to use as a catalyst support in DRM reaction.



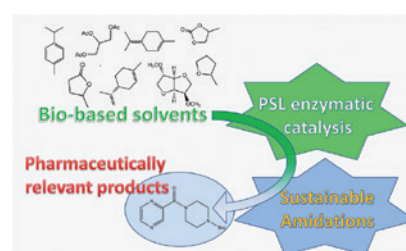
**Keywords:** direct synthesis; dry reforming of methane; ICGC-8; mesoporous; metal nitride; TiN–SBA-15.

Giulia Paggiola, Nolwenn Derrien, Jonathan D. Moseley, Anthony Green, Sabine L. Flitsch, James H. Clark, Con Robert McElroy and Andrew J. Hunt  
**Application of bio-based solvents for biocatalysed synthesis of amides with *Pseudomonas stutzeri* lipase (PSL)**

<https://doi.org/10.1515/pac-2019-0808>  
 Pure Appl. Chem. 2020; 92(4): 579–586

### Conference paper:

The effect of solvent selection upon enzymatically catalysed amide synthesis from a range of esters and amines.



**Keywords:** amides; bio-based; biocatalysis; biocatalysts; enzyme catalysis; fine chemicals; green chemistry; ICGC-8; organic chemistry; organic synthesis; pharmaceuticals; solvents; sustainable chemistry.

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Vânia G. Zuin, Mateus L. Segatto and  
Karine Zanotti

**Towards a green and sustainable fruit  
waste valorisation model in Brazil:  
optimisation of homogenizer-assisted  
extraction of bioactive compounds from  
mango waste using a response surface  
methodology**

<https://doi.org/10.1515/pac-2019-1001>  
Pure Appl. Chem. 2020; 92(4): 617–629

**Conference paper:**

This article discusses the concept of a sustainable mango waste biorefinery, including a case study on the use of response surface methodology to find optimum parameters of homogenizer-assisted extraction of bioactive compounds from mango residue.

**Keywords:** bioactive compounds; chemometrics; green and sustainable extraction; ICGC-8; mango biorefinery; nutraceuticals; waste valorization.

