

ZERNIKE INSTITUTE COLLOQUIUM

Thursday, February 2nd, 2012

16:00h, Lecture Hall: 5111.0080

Coffee and cakes from 15:30h

# Materials and synthesis approaches for developing sustainable and "greener" Li-based batteries

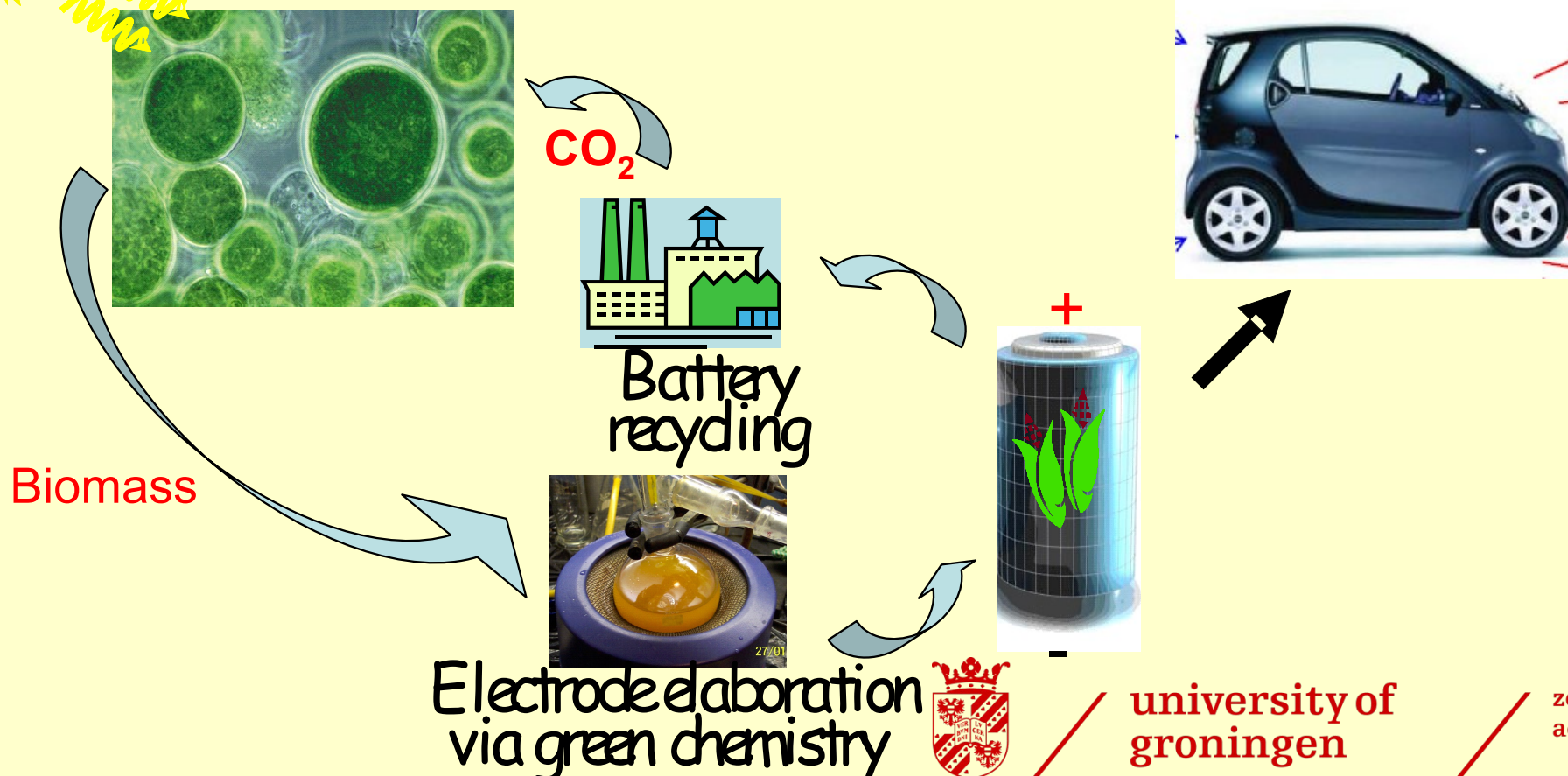
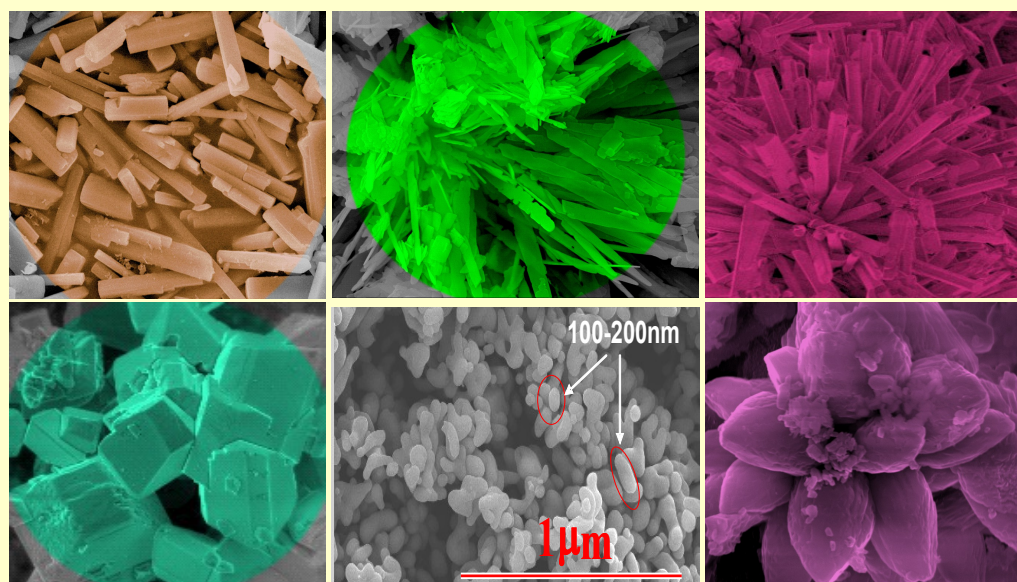
**J-M. Tarascon**  
**Laboratoire de Réactivité et Chimie des Solides**  
**Université de Picardie Jules Verne**  
**CNRS (UMR-6007)**  
**Amiens, France**



Although today's Li-ion technology has conquered the portable electronic markets, and is still improving, it falls short of meeting the demands dictated by both electric transportation and grid applications. There is room for optimism as long as we pursue paradigm shifts while keeping in mind the concept of materials sustainability.

Some of these concepts relying on

- i) new ways to prepare known or new inorganic phosphates, fluorophosphates or fluorosulfate electrode materials via eco-efficient processes enlisting ionothermal or bio-inspired approaches,
- ii) exploiting organic electrodes, and
- iii) exploring new insertion chemistries, will be discussed.



university of  
 groningen

zernike institute for  
 advanced materials