IN THIS ISSUE:

Takeo Oku

Direct structure analysis of advanced nanomaterials by highresolution electron microscopy

DOI 10.1515/ntrev-2012-0018 Nanotechnol Rev 1 (2012): 389-425 **Review:** HREM image of TlBa₂Ca₃Cu₄O₁₁ taken with the incident beam parallel to the a-axis together with a structure model after image processing.

Keywords: atomic structure; boride; boron nitride; high-resolution electron microscopy; inorganic materials; nanostructured materials; oxide.

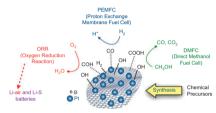


Aldo S. Gago, Aurelien Habrioux and Nicolas Alonso-Vante

Tailoring nanostructured catalysts for electrochemical energy conversion systems

DOI 10.1515/ntrev-2012-0013 Nanotechnol Rev 1 (2012): 427-453 **Review:** Novel materials and supports such as graphene are being widely studied; this review mainly explores the synthesis, the surface electrochemical reactions and the use of nanoparticles to convert efficiently chemical energy into electricity.

Keywords: µDMFC; electrochemistry; LFFC; Li-air battery; nanoparticles; nucleation; PEMFC; synthesis.



Tailoring Nanoparticles and Supports