



Departamento de
Física de la
Materia Condensada
Universidad Zaragoza

SEMINARIOS 2018

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Institut de Recerca en Energia de Catalunya

“Novel concepts for a new generation of solid state energy devices”

In this presentation, last advances in Solid State Energy Devices carried out at the Catalonia Institute for Energy Research (IREC) will be presented. The talk will be focused on the opportunities arising from the use of new manufacturing technologies such as ceramic 3D printing and thin film deposition for revolutionizing classical Solid Oxide Cells concepts. Among other, the seminar will discuss a novel approach for enabling highly oxide-ion diffusive pathways by grain boundary engineering in thin films of mixed ionic conductors.

Albert holds M.Sc. and PhD degrees in Physics from the University of Barcelona (2001, 2007) and M. Eng. degree in Materials Science from the Polytechnic University of Catalonia (2007). He has worked as a research associate at the Institute of Microelectronics of Barcelona (ES) and as a visiting researcher at the University of Oslo (NO), Imperial College London (UK) and Caltech (USA). In 2010, Albert gained a Ramon y Cajal Fellowship and joined the Catalonia Institute for Energy Research (IREC) as the Head of the Nanoionics and Fuel Cells Group. Currently, he is ICREA Professor at IREC and leads a group of 20+ people devoted to nanomaterials for alternative energy technologies and their applicability in powering portable devices and synthetic fuel production. Albert has authored more than 100 peer-reviewed articles and more than 200 oral presentations in congresses. He has been principal investigator of 8 EU research projects, including one ERC-Consolidator Grant and a H2020 coordinated project, attracting a total amount of 6+ M€ as PI.

2 de Marzo (viernes)

Con la colaboración de:



Facultad de Ciencias
Universidad Zaragoza

**LUGAR: SALA DE GRADOS DE LA
FACULTAD DE CIENCIAS**

HORA: 12:30