

**MC23 Advanced characterization for energy materials I**

Monday, 2 September, morning

Chair: Rui Vilão

Room:

Hours	ID	Name	Type	Title
10h30-11h00	12855	T Prokscha	Invited	Depth profiling of defect regions with nm depth resolution at semiconductor interfaces using low-energy uSR
11h00-11h15	13835	Roberto Constantini	Oral	Tailoring the charge separation barrier at organic semiconductor interfaces
11h15-11h30	13112	Agnieszka Paszuk	Oral	Surface structure of industrially prepared As-modified Si(100) substrates for solar power conversion
11h30-12h00	13462	V. Corregidor	Invited	Materials for solar cells devices studied by a nuclear microprobe
12h00-12h15	13148	G. Ribeiro	Oral	PbS CQDs in perovskite host matrix for broadband optoelectronic semiconductors
12h15-12h30	13235	Max Großmann	Oral	A robust, simple and efficient workflow to converge GW calculations
12h30-13h00	13692	Jonas Deuermeier	Invited	Chemical and electrostatic surface characterization with photoelectron spectroscopy - a tutorial

MC23 Advanced characterization for energy materials II

Monday, 2 September, afternoon

Chair: J. P. Teixeira

Room:

Hours	ID	Name	Type	Title
16h00-16h30	12897	P. M. P. Salomé	Invited	The role of characterization and modelling in the path for developing ultrathin CIGS solar cells
16h30-16h45	13523	A. J. N. Oliveira	Oral	Design of Optimal Architectures for Optical Path Length Enhancement in Ultrathin and Bifacial Solar Cells
16h45-17h00	13035	A. F. Violas	Oral	Rear Passivation for Improved Performance in ACIGS Ultrathin Solar Cells with Mo and ITO Rear Contacts
17h00-17h30	13140	B.P. Falcão	Invited	Photovoltaics for space applications: the case of Cu(In,Ga)Se ₂



17h30-17h45	12965	P. A. Fernandes	Oral	Raman and X-ray structural characterization of post-annealed hydrothermal Sb ₂ (S, Se) ₃ thin films for solar cell application
17h45-18h00	13850	F. Carreira	Oral	Aerosolized Luminescent Nanoparticles as Optical Probes in Leakage Detection Systems
18h00-18h30	13079	N. Nicoara	Invited	Probing Nanoscale Properties: CIGSe Solar Cells and Ir-Ni Catalysts for Hydrogen Production

MC23 Advanced characterization for energy materials III

Tuesday, 3 September, morning

Chair: S. Shukla

Room:

Hours	ID	Name	Type	Title
10h30-11h00	13323	Juan Bisquert	Invited	Impedance and capacitance properties of energy materials
11h00-11h30	13321	José P. S. Cardoso	Invited	The Raman spectroscopy in the study of semiconductors: case studies
11h30-11h45	13365	Filipe Oliveira	Oral	Composition-driven breaking of structural selection rules in polarized Raman scattering from Ge-Sn alloys
11h45-12h00	13524	C. O. Fernandes	Oral	Advanced Characterization to Access End-of-Life Li-ion Batteries Black Mass
12h00-12h30	13031	R. S. Sampaio	Invited	Characterization of the performance of a C/MnOx asymmetric supercapacitor subjected to long cycling.
12h30-13h00	12775	Liliana Truta	Invited	Advanced anode materials for the next generation of LIBs

Poster Session

Monday, 2 September

ID	Name	Title
13850	Gabriel Santiago Marques	Aerosolized Luminescent Nanoparticles as Optical Probes in Leakage Detection Systems
13148	Guilherme Ribeiro	PbS CQDs in perovskite host matrix for broadband optoelectronic semiconductors
13112	Aaron Flötotto	Surface structure of industrially prepared As-modified Si(100) substrates for solar power conversion
12965	P.A. Fernandes	Raman and X-ray structural characterization of post-annealed hydrothermal Sb ₂ (S,Se) ₃ thin films for solar cell application