

**MC 43 Advances in controlled disorder and defect analysis of materials I**

Wednesday, 4 September, morning

Chair: Joana Rodrigues and Rosário Correia

Room:

Hours	ID	Name	Type	Title
10h30	12798	Alexander Azarov	Invited	Self-assembling of Ga ₂ O ₃ polymorphic heterostructures with ion beams
11h00	13142	M. Peres	Oral	Ag and Au nanoparticles created by ion implantation in Ga ₂ O ₃ thin films for temperature sensing
11h15	12934	D. M. Esteves	Invited	Implantation-induced β -Ga ₂ O ₃ microtubes and nanomembranes
11h45	13016	M. C. Pedro	Oral	Characterisation of differently doped β -Ga ₂ O ₃ membrane MSM photodetectors and FET
12h00	12946	R. Ratajczak	Invited	Multi-channeling characterization of radiation-induced effects and defects by Yb in the β -Ga ₂ O ₃
12h30	13563	J. Zanoni	Oral	Temperature-dependent photoluminescence studies in Pr implanted β -Ga ₂ O ₃
12h45	13213	Ana Sofia Sousa	Oral	Gallium Oxide Thin Films deposited by RF-Sputtering for Electro-Optical Applications

MC 43 Advances in controlled disorder and defect analysis of materials II

Wednesday, 4 September, afternoon

Chair: M. Patel and R. Eloirdi

Room:

Hours	ID	Name	Type	Title
16h00	12826	C. Mieszczyński	Invited	Combining Monte Carlo and Molecular Dynamics Methods for RBS/C Simulations
16h30	12770	E. Wyszowska	Oral	Point defects evolution in fcc Ni and Ni _x Fe _{1-x} single crystals with low Fe content
16h45	12576	Milena D. Majkić	Invited	A cohesive energy model for nanostructure formation by an impact of slow highly charged Arq ⁺ , Krq ⁺ and Xeq ⁺ ions on metal surfaces
17h15	12754	O. Concepción	Invited	Ultimate Group-IV alloys Epitaxy for Device Applications
17h45	13040	J. S. Cabaço	Invited	Exploring the effects of systematic disorder in ion-irradiated Cr ₂ AlC
16h15	13569	Maulik Patel	Oral	Radiation damage and disordering in ion irradiated ZrN

MC 43 Advances in controlled disorder and defect analysis of materials III

Thursday, 5 September, Morning

Chair: S. Magalhães & P. Jóźwik

Room:

Hours	ID	Name	Type	Title
10h30	12975	Shyama Rath	Invited	Ion-implantation induced nitrogen vacancy defect centres in silicon carbide
11h00	13749	Daniel Dick	Oral	Stoichiometry fluctuations in random alloys: a case study on SiGe:C
11h15	12830	A. Wierzbicka	Invited	Analysis of defect distribution and lattice disorder in GaN core-shell nanowires
11h45	13037	G. Provatas	Invited	Study and modification of semiconductor particle detectors using a nuclear microprobe
12h15	13243	Gianguido Baldinozzi	Invited	Microstructures and structural organisation under extreme conditions in mixed oxides for nuclear applications
12h45	13117	A. Andrino-Gómez	Oral	Quest for subsurface amorphization in topological Bi-Sb materials by MeV ion implantation

MC 43 Advances in controlled disorder and defect analysis of materials IV

Thursday, 5 September, afternoon

Chair: M. Peres

Room:

Hours	ID	Name	Type	Title
16h00	12948	José Olivares	Invited	Micro and nano structuring for optical waveguide fabrication and singular optical response modifications using high energy heavy ion excitation and laser pulses
16h30	12831	A. Lysak	Oral	Improved optoelectronic properties of in situ Eu-doped ZnCdO/ZnMgO SLs growth by PA-MBE
16h45	13581	Christian Dreßler	Oral	Coexistence of Cationic and Anionic Phosphate Moieties in the Solid Acid Cs ₇ (H ₄ PO ₄)(H ₂ PO ₄) ₈ Investigated by ab initio Molecular Dynamics Simulations



Poster Session
Thursday, 5 September

ID	Name	Type	Title
13050	Inês Proença	Poster	Unraveling the mechanisms of persistent luminescence in LiYGeO ₄
13070	Maria S. Batista	Poster	Chromium and manganese-activated Zn ₂ GeO ₄ : a versatile phosphor for emerging luminescence-based applications
13348	Magda Soares	Poster	On the road to monolithic RGB micro-LED arrays based on III-nitrides: optical and structural characterization of Tm implanted AlN nanowires
13707	T. V. Fernandes	Poster	Remarkable recovery of proton-irradiated Cu(In,Ga)Se ₂ based solar cells for space applications: thermal annealing and light soaking treatments