

PROGRAM

Tuesday – July 16 th		
Room A = Salle Panoramique		
Open registration (8h00: 9h20)		
9h20	Welcome to NanoSea 2024	
9h30	M.De Crescenzi: <i>NanoSea: past, present and future of the nanostructures</i>	
9h40		
9h50		
10h00		
10h10	G.Capellini: <i>Advanced characterization of the crystal lattice in Group IV quantum wells</i>	
10h20		
10h30		
10h40		
10h50		
11h00		
11h00	Exhibitors presentations: PARK, SPECS, DCA, THERMO FISHER, MATEPI	
11h10		
11h20		
	Room A = Salle Panoramique	Room B = Espace Saint Victor
11h30	I.Fischer: <i>Self-assembled Sn nanoislands on Ge: From 2D to 3D growth</i>	I.Florea: <i>Advanced TEM techniques for the study of wide-bandgap semiconductors, terrestrial and/or extraterrestrial natural materials</i>
11h40		
11h50		
12h00	J.N.Aqua: <i>Anomalous growth of 2D epitaxial Si</i>	A.Tagliaferri: <i>Imaging MEMS motion at nano scale by time-resolved scanning electron microscopy</i>
12h10		
12h20	P.Kelires: <i>Quantum Confinement of Electron –Phonon Coupling in Graphene Quantum Dots</i>	K.Burns: <i>Correlating Bosons to Heterogeneities in Two-dimensional Materials with Vibrational EELS and 4D-STEM</i>
12h30		
12h40		
LUNCH (12h50-14h30)		
14h30	A.Capasso: <i>Graphene-based membranes and flexible technologies</i>	T.Fromherz: <i>Group-IV double hetero structure diodes for efficient telecom LEDs up to room temperature</i>
14h40		
14h50		
15h00	C.Zucchetti: <i>Tunable spin transfer in low-loss graphene interconnects on semiconductor</i>	A.Oliveira De Cerdeira: <i>Ge-on-Si dual-band detectors for solvents recognition</i>
15h10		
15h20	V.Anastasi: <i>Deposition by drop casting and characterization of MoS2 nanoplatelets on FTO/Glass substrates</i>	A. Annunziata: <i>Polarization Resolved High-order Harmonic Generation in Germanium</i>
15h30		
15h40	C.Gadermaier: <i>Charge Carrier Dynamics in Transition MetalDichalcogenide Nanosheet Films Obtained from Liquid Phase Exfoliation</i>	F.Scali: <i>Electric field modulation of spin transport in silicon</i>
15h50		
COFFEE BREAK / POSTER / EXHIBITION (16h00-17h00)		

17h00	M.Salvato: <i>Origin and consequences of the moiré stripe formation on the surface of Bi₂Se₃ topological insulator thin films and nanobelts</i>	L.Di Gaspare: <i>N type SiGe parabolic quantum wells for the ultrastrong light matter coupling at Terahertz frequency</i>
17h10		
17h20	J.Wu: <i>Probing quantum physics in vdW heterojunction nanohybrids</i>	M.Sistani: <i>NDR-mode RFET: A Reconfigurable Transistor Functionally Diversified by Negative Differential Resistance</i>
17h30		
17h40		

Wednesday – July 17 th		
Room A = Salle Panoramique		
9h00	F.Iacopi: <i>Epitaxial growth of graphene on SiC on silicon using a Ni/Cu alloy and its applications</i>	
9h10		
9h20		
9h30		
9h40		
9h50		
Room A = Salle Panoramique		Room B = Espace Saint Victor
10h00	E.Pogna: <i>THz polaritons in 2D materials investigated by near-field nanoscopy</i>	S.Freddi: <i>Exploiting the annealing effect of thin germanium film: interplay between crystallization and dewetting</i>
10h10		
10h20	J.Caridad: <i>Graphene-based heterostructures for Terahertz detection technology</i>	M.Salvalaglio: <i>Tailoring the Self-Assembly of Ordered and Hyperuniform Nanostructures by Solid-State Dewetting</i>
10h30		
10h40		
COFFEE BREAK (10h50-11h20)		
11h20	N.Motta: <i>Conversion of Epitaxial Graphene to 2D diamane on Silicon Carbide</i>	A.Boucherif: <i>Freestanding semiconductor nanomembranes: from materials to devices</i>
11h30		
11h40	C.Pardanaud: <i>Crumpling in multilayer graphene: signature in Raman spectra</i>	A.Muoio: <i>3C-SiC resonators: fabrication, modelling and characterization</i>
11h50		
12h00	G.Nassar: <i>Can we induce a Moiré effect on Graphene with a supramolecular</i>	A.Brambilla: <i>Investigation of nanostructures based on Cr₂O₃ for the application in organic antiferromagnetic spintronics</i>
12h10		
12h20	L.Floean: <i>Molecular adsorption on Dumbbell Silicene</i>	R.Mamberti: <i>Mesoporous SiO₂ thin films for cost-effective memory applications</i>
12h30		
12h40	E. Cinquanta: <i>Ultrafast Processes in Functionalized Germanane</i>	A.Lysak: <i>Optimization of in situ Eu-doped Cd(Zn)O/Zn(Mg)O SLs structures growth by MBE to obtain efficient europium emission</i>
12h50		
13h00	A.Ruiz: <i>Tailoring the Self-Assembly of Ordered and Hyperuniform Nanostructures by Solid-State Dewetting</i>	S.M.Pietralunga: <i>A Study on Spectroscopic Ellipsometry Modelling of Dielectric Properties in WO_{3-x} Photonic Thin Films</i>
13h10		
13h20		
LUNCH (13h30-15h00)		
15h00	L.Camilli: <i>On-surface molecular recognition driven by chalcogen bonding</i>	M.Bescond: <i>Simulations and conception of innovative cooling nanodevices based on III-V heterostructures</i>
15h10		
15h20		
15h30	G.Yimin: <i>Nano-architecture of mixed molecular layers on a silver surface</i>	Q.Yu: <i>Electric-field-assisted phase switching in GaAs nanowires</i>
15h40		
15h50	C.Filoni: <i>Mechanisms of sulphate adsorption on vicinal</i>	

16h00	<u>Cu(111)</u>	P.Prete : <i>Engineering III-V core-(multi)shell nanowires for advanced photonics and photovoltaics</i>
16h10		
COFFEE BREAK + POSTER(16h10-17h00) + THERMO FISHER DEMO		
17h00	Piano Concert: Alberto M. Giambello performs “ <i>Radic</i> ” (Roots). Music of J.S. Bach-F. Busoni, L. van Beethoven, C. Franck, and A. Casella.	
FREE TIME (18h20 – 20h00)		
20h00	SOCIAL DINNER	

Thursday – July 18th

Room A = Salle Panoramique

Bridging the Abyss: Exploring the Confluence of Art and Science

9h00	J.M.Chomaz : <i>Irreversible abstraction an art and science research in Time-Space, scales and singularity</i>
9h10	
9h20	
9h30	
9h40	
9h50	
10h00	G.Rizza : <i>Exploring the boundaries of popularization to develop new forms of scientific mediation</i>
10h10	
10h20	
10h30	S.Boninelli : <i>Kintsugi</i>
10h40	
10h50	

COFFEE BREAK (11h00-11h30)

	Room A = Salle Panoramique	Room B = Espace Saint Victor
11h30	S.Carenco: <i>Optical Quality Thin Films of Lanthanide Oxysulfides Nanoplates for Biosensing</i>	K.Rumf: <i>FePt Loaded Nanostructured Silicon as High Energy Product Composite</i>
11h40		
11h50	S.Hassak: <i>E-beam structuration of Se-rich chalcogenides</i>	F.Cheyneis: <i>GeTe Ferroelectric Rashba semiconductor: from growth to electronic properties</i>
12h00		
12h10	V.Sabie: <i>Synthesis and characterization of cobalt-zinc and manganese-zinc ferrite nanoparticles uncoated and coated with silver as MRI contrast agents</i>	D.Faurie: <i>Magnonic crystals on flexible substrates: modelling, synthesis and properties</i>
12h20		
12h30	G.Contini : <i>Tunable Dirac Cones and Flat Bands in Mesoscale Ordered</i>	I.Goldfarb : <i>Phase Transformations Leading to Heterostructure Formation and Direct Exchange Interactions in Epitaxial Nanostructures</i>
12h40		
12h50		

LUNCH (13h00-14h30)

14h30	J.Bradford : <i>Molecular Beam Epitaxy of 2D Materials for Deep-UV Optoelectronics</i>	F.Iacomì : <i>Co-doping a promising strategy for tuning functional properties of thin films for electronic applications</i>
14h40		
14h50		
15h00	C.Mastropasqua: <i>Growth of graphene on Ge (100) from carbon solid source</i>	C.Bonafos: <i>Infrared Plasmonics based on doped silicon nanocrystals</i>
15h10		
15h20	T.Duarte: <i>Molecular adsorption on Dumbbell Silicene</i>	M.Gaillard: <i>Nanoparticle-Based Biosensor: Encoding and Decoding Information with DNA Hybridization</i>

15h30		
COFFEE BREAK / POSTER (15h40-16h10)		
16h10	A.C.Sow: <i>Synthesis of multi-coloured photoluminescence carbon dots from</i>	J.Wang: <i>Self-assembled monolayer of push-pull chromophore on gold: towards the modulated polarization for the controlled detection of biomolecules</i>
16h20		
16h30	D.Perilli: <i>Design of Highly Responsive Room Temperature Chemiresistor-Based Sensors via Non-Covalent Functionalization of Graphene</i>	S.Trillot: <i>Influence of reactive gases on the nucleation and growth of Ag nanoparticles in gas-phase synthesis</i>
16h40		
16h50	A.Mugarza: <i>Bottom-up modular engineering of porous graphene nanoarchitectures</i>	R.G.Milazzo: <i>Ruthenium nanostructured catalysts on porous support for Hydrogen</i>
17h00		
17h10		

Friday – July 19 th		
Room A = Salle Panoramique		
9h00	D.Grojo: <i>New Dimensions Open to Ultrafast Laser Material Modifications</i>	
9h10		
9h20		
9h30		
9h40		
9h50		
Room A = Salle Panoramique		Room B = Espace Saint Victor
10h00	J.Floro: <i>Directional Laser Solidification in Eutectic Al-Cu Thin Films for Nanostructure Self-Assembly</i>	R.G.Milazzo: <i>Iron Based Catalysts for Green Ammonia Synthesis</i>
10h10		
10h20	R.Fittipaldi: <i>Periodic surface nanostructures induced by femtosecond pulsed laser on metals, semiconductors and topological insulators</i>	P.Granitzer: <i>Magnetic Interactions of Metal Deposits within Nanostructured Silicon Investigated by FORC Measurements Composite</i>
10h30		
10h40		
COFFEE BREAK (10h50-11h20)		
11h20	A. Al Kattan: <i>Laser-synthesized nanoparticles for biomedical and tissue engineering applications</i>	C.Petit: <i>Oleylamine and low valency organic precursor: a facile route to metallic and multicomponent Nanocrystals</i>
11h30		
11h40	W.Batista Pessoa: <i>Study of crystallization and amorphization of GGST by laser irradiation from femto to microsecond range</i>	V.Strano: <i>ZnO nanostructures for enhanced electrochemical energy storage</i>
11h50		
12h00	T.Fernandes: <i>Laser-induced crystallization of Ge-rich GST thin films studied in situ with synchrotron X-Ray Diffraction</i>	T.Beauzon: <i>Optimizing photocatalytic CeO₂ synthesis through design of experiments</i>
12h10		
12h20	N.Destouches: <i>Laser-induced self-organization of nanocomposite films</i>	A.Courty: <i>Rational synthesis of colloidal Cu and core-shell Cu@ZnO nanoparticles for the CO₂ hydrogenation to methanol</i>
12h30		
12h40		
LUNCH (13h00-14h30)		
14h30	A.Bonneau: <i>Zinc oxide fabrication using a green method synthesis for photocatalysis under visible light</i>	
14h40		
14h50	Y.Elaadssi: <i>Experimental and CCD Optimization studies for Photoelectrochemical degradation of Organic dyes using Catalyst of CoxFe₃-xO₄ thin films</i>	
15h00		
15h10	S.Essalmi: <i>Adsorption-assisted photocatalytic degradation of organic dyes</i>	
15h20		

15h30	G. Impellizzeri : <i>Novel photocatalytic nanocomposites for water treatment</i>
15h40	
15h50	
CONCLUDING REMARKS (16h00-16h15)	