

Bonaparte aréa

Advanced functional materials

From fabrication to applications (photonics, sensors...)

Poster number	Author	Institution	Abstract
1-01	Abram	TAYEB · Moulay Ismaël Univ.	<i>Theoretical Design of New Small Molecules Thiophene and Oxathiazole based D-π-A organic dyes for efficient dye-sensitized solar cells (DSSCs)</i>
1-02	Vinsensia	ADE SUGIAWATI · MADIREL	<i>Light-weight and Flexible Carbon Nanotubes (CNT) Tissues as Anode Materials for Flexible Li-ion Microbatteries</i>
1-03	Lionel	SANTINACCI · CINaM	<i>An investigation of the response of atomic layer deposited Titania to annealing: impact of deposition and annealing temperatures on the refractive index</i>
1-04	Maxime	DUFOND · CINaM	<i>On the Stability of the n-Si/TiO₂ Photoelectrodes: Effect of the Atomic Layer Deposition Conditions</i>
1-05	Terefe	EPHREM · MADIREL	<i>Design of lithium-ion conducting organic/inorganic hybrid porous materials as solid electrolytes for Lithium batteries</i>
1-06	Nicolas	CAVASSILAS · IM2NP	<i>Proposal of a dual-gated WTe₂/MoSe₂ van der Waals tandem solar cell</i>
1-07	Michel	VERGNAT · IJL	<i>Photoluminescence of SiO_{1.5} alloys doped with boron</i>
1-08	Yu	ZHANG · IJL	<i>Doped ZnO Nanoparticles for WLED Application</i>
1-09	Beniamino	SCIACCA · TNO	<i>SEIRA detection of benzene at ppb levels mediated by resonant nanoantennas</i>
1-10	Benoit	FLEURY · IPCM	<i>Molecule-driven assembly of cdse nanoplatelet from out-of-equilibrium architectures towards magnets-optical composites</i>

Nanobiology

Poster number	Author	Institution	Abstract
Sensors			
2-01	Petra	HELLWIG · CMC	<i>Surface enhanced difference infrared spectroscopy on membrane proteins</i>
2-02	Olivier	SANDRE · LCPO	<i>Kinetics of aggregation and magnetic separation of multicore iron oxide nanoparticles: effect of the grafted layer thickness</i>
Biomaterials			
2-03	Manon	DEBAYLE · LPEM	<i>Zwitterionic Polymer Ligands: an Ideal Surface Coating to Suppress Protein-Nanoparticle Corona Formation?</i>
2-04	Volodymyr	MALYTSKYI · ICMR	<i>Functionalizable Dendritic Platform Bearing Four Gd Chelates for Nanometric High Sensitive MRI Probes</i>
2-05	Andreas	REISCH · LBP	<i>Ultrabright Dye-loaded Polymer Nanoparticles for Bioimaging and Biosensing</i>
2-06	Olivier	SANDRE · LCPO	<i>Self-Assembly Behavior of Amphiphilic PEO-b-Polypeptide Based Nanoparticles As Promising Drug Delivery Carriers</i>

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Nanoelectronics, nanomagnetism & spintronics

Poster number	Author	Institution	Abstract
3-01	Damien	BRUNEL · ICR	<i>Ferrocenyl Triazole derivatives: Interesting candidates for application in molecular electronic</i>
3-02	Audrey	DIEUDONNÉ · LTM	<i>NEED for IoT</i>
3-03	Mohamed-Amine	GUERBOUKHA · IM2NP	<i>Towards self-assembled nanodielectrics on Ge</i>
3-04	Giulia	USAI · LETI	<i>NANOELECTROMECHANICAL SWITCHES: Opportunities and Challenges</i>

Nanomaterials

Poster number	Author	Institution	Abstract
Nanochemistry, synthesis & assembly			
4-01	Soraya	BACHAOUI · Univ. of Oran 1	<i>Simulation of Magnetic Nanoparticles Hyperthermia in Liver Tumor</i>
4-02	Esther	CAZARES CORTES · MMC	<i>Alternating sequence-controlled polymers with temperature phase transition in organic and aqueous solvents</i>
4-03	Esther	CAZARES CORTES · PHENIX	<i>Multiresponsive biocompatible hybrid nanogels for a controlled release of doxorubicin by magnetic hyperthermia and photothermia for a new cancer theranostic approach</i>
4-04	Benoit	PICHON · IPCMS	<i>How to enhance the magnetic properties of Fe₃O₄ nanoparticles? Synthesis and assembly strategies</i>
4-05	Beniamino	SCIACCA · CINAM	<i>Self-assembled monocrystalline patterned nanomaterials</i>
4-06	Jérémy	RIO · IMN	<i>Interaction between two [10]CPPs and (C₅₉N)₂ induced by cooperative complexation</i>
4-15	Baptiste	AMOUROUX · IMRCP	<i>Microwave-assisted solvothermal synthesis of inorganic nanoparticles: a promising pathway towards homogeneous sub-3 nm upconverting nanoparticles</i>
4-16	Sarah	AL GHARIB · LCP	<i>Nucleation mechanism of silver nanoparticles in the Turkevich citrate method</i>

Nanophysics & nanochemistry on surfaces

Poster number	Author	Institution	Abstract
4-11	David	MARTROU · CEMES	<i>Stabilization of Au Monatomic-High Islands on the (2x2)-Nad Reconstructed Surface of Wurtzite AlN(0001)</i>
4-12	Lionel	PATRONE · IM2NP	<i>SERS and DFT combined study of push-pull chromophore orientation within self-assembled monolayers</i>
4-13	Corentin	PIGOT · ICR	<i>On-surface Synthesis of Aligned Functional Nanoribbons Monitored by Scanning Tunneling Microscopy and Vibrational Spectroscopy</i>
4-14	François	PIQUEMAL · LNE	<i>Capacitance measurements at nanoscale with scanning microwave microscopy (SMM)</i>
4-07	Virginie	PONSINET · CRPP	<i>Nanoplasmonic surfaces from self-assembled block copolymer thin films</i>
	Redouane	BACHIR · Univ. Tlemcen	<i>Nanogold particles. Efficient heterogeneous catalysts and C-C coupling reactions</i>
	Sarah	AL GHARIB · LCP	<i>Nucleation mechanism of silver nanoparticles in the Turkevich citrate method</i>

Advanced characterization

Poster number	Author	Institution	Abstract
4-08	Sylvain	DAVID · LTM	<i>Spatially correlated nanoscale characterisations method applied to InGaAs quantum well grown on GaAs buffer and Si substrate</i>
4-09	Thierry	EPICIER · MATISS	<i>Mechanical behavior of cerium oxide nanocubes studied by in situ Environmental TEM compression in the elastic regime and DFT+U Simulations</i>
4-10	Alex	FONTANA · ENS Lyon	<i>Fluctuations in a NESS: is there a universal behavior ?</i>

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Nanometrology & 2D materials

Poster number

5-01	Amel	BOUKHOUJETE · LM2PM	<i>Microstructural investigation of nickel deposits obtained by pulsed current</i>
5-02	Loïc	CROUZIER · Pprime	<i>Development of a hybrid metrology combining AFM and SEM techniques for measuring the characteristic dimensions of a nanoparticle population</i>
5-03	Bruno	GRANDIDIER · IEMN	<i>Engineering Dirac materials</i>

Nanophotonics

Nano-optics, nanophotonics & plasmonics

Poster number

6-01	David	BABONNEAU · Pprime	<i>Evolution of plasmonic nanostructures under ultra-low-energy ion bombardment</i>
6-02	Eve-Line	BANCEL · Fresnel Institute	<i>Optical spectroscopy of ?flying? plasmonic particles</i>
6-03	Dorian	BOUCHET · Ubrecht Univ.	<i>Information content of speckle patterns for optical imaging inside scattering materials</i>
6-04	Rémi	BRICHE · INL	<i>Analogies between the properties of graphene/carbon nanotube transition and its photonic equivalent</i>
6-05	Sara	DUCCI · MPQ	<i>Generation and manipulation of hyper-entangled frequency combs in an AlGaAs chip</i>
6-06	Carlo	GIGLI · MPQ	<i>Second harmonic generation from AlGaAs metasurfaces</i>
6-07	Antu	GORTARI · C2N	<i>Metasurface-based total internal reflection bioimaging</i>
6-08	Mohammad	KHAYWAH · ICCF	<i>Surface Plasmonic effect of Ag Nanocubes on YAG:Ce3+ Photoluminescence</i>
6-09	Kuntheak	KHENG · PHELIQS	<i>CdSe/ZnSe nanowires-quantum dots and enhanced photon extraction with a bottom-up dielectric photonic shell</i>
6-10	Helena	RIBERA · CEMES	<i>Examining diffracted light from nanoparticles at variable distances from surfaces</i>
6-11	Briean	STOUT · Fresnel Institute	<i>Designing Ideal absorbing and scattering nano-structures</i>
6-12	Wolfgang	BACSA · CEMES	<i>Determination of the heat conductivity of graphene in large graphene bubbles</i>

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Safer by design

Environmental applications & implications, Nanotoxicology, Safer by design

Poster number

7-01	Lala	SETTI BELAROUÏ · LCM	<i>Removal of spiramycin from aqueous solutions using the nanoclays of natural and purified Algerian palygorskite</i>
7-02	Martina	COTENA · CEREGE	<i>Reproductive toxicity of combusted diesel additive nano-ceria on mammalian cells</i>
7-03	Camille	de GARIDEL-THORON · CEREGE	<i>A Safer by Design approach on exposure to nanomaterials: seven case studies of the LabEx SERENADE project</i>
7-04	Naïma Karima	RACHID · LCMCP HAMDI ALAOUI · CEREGE	<i>Nanocomposite made of pillared clays for depollution of pharmaceutical wastewater</i>

