

Program

Wednesday 15 December, 2021		
08:00-9:00	Registration	
09:00-09:45	Opening ceremony	
09:45-10:15	Welcome reception	
10:15-12:15	Conferences: 1, 2, 3, 4 Amphitheater C001 <u>Chairs : Prof. A. Vaseashta and Prof. L.C. Costa</u>	
10:15-10:45	<u>Conference 1 (Conf 01)</u> <u>Invited Speaker :</u> <u>Prof. Didier FASQUELLE</u> <i>Dynamics and Structure of Molecular Materials Unit (UDSMM)</i> <i>Littoral-Côte d'Opale University, Calais</i> <i>France</i> Study and Optimization of Functional Oxide Properties: From Prediction to dedicated Characterizations.	
10:45-11:15	<u>Conference 2 (Conf 02):</u> <u>Invited Speaker:</u> <u>Prof. Yasuo CHO</u> <i>Research Institute of Electrical Communication, Tohoku University, 2-1-1 Katahira,</i> <i>Aoba-ku, Sendai</i> <i>Japan</i> Nanoscale Domain Dynamics Characterization Using Local C-V Mapping	
11:15-11:45	<u>Conference 3 (Conf 03):</u> <u>Invited Speaker :</u> <u>Prof. Friedrich KREMER</u> <i>Institute of Experimental Physics I</i> <i>University of Leipzig, Leipzig</i> <i>Germany</i> Molecular dynamics in 1- and 2-dimensional nanometric confinement as studied by Broadband Dielectric Spectroscopy	
11:45-12:15	<u>Conference 4 (Conf 04):</u> <u>Invited Speaker :</u> <u>Prof. Juras BANYS</u> <i>Faculty of Physics, Vilnius University, Sauletekio 3, LT-10257 Vilnius</i> <i>Lithuania</i> Peculiarities of dipolar ordering in mixed cation halide perovskites	
12:15-13:30	Oral sessions Sessions A and B Onsite	
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <u>Session A</u> <u>Amphitheater C001</u> <u>Chairs: Prof. R. BENZERGA</u> <u>Prof. Y. LORGUILLOUX</u> </td> <td style="width: 50%; border: none; vertical-align: top;"> <u>Session B</u> <u>Room B014</u> <u>Chairs : Prof. J. Mustapha</u> <u>Prof. M. RGUITI</u> </td> </tr> </table>	<u>Session A</u> <u>Amphitheater C001</u> <u>Chairs: Prof. R. BENZERGA</u> <u>Prof. Y. LORGUILLOUX</u>
<u>Session A</u> <u>Amphitheater C001</u> <u>Chairs: Prof. R. BENZERGA</u> <u>Prof. Y. LORGUILLOUX</u>	<u>Session B</u> <u>Room B014</u> <u>Chairs : Prof. J. Mustapha</u> <u>Prof. M. RGUITI</u>	
	<u>OP-A1</u> <u>Pierre VOISIN</u> <u>HTDS</u> 12:15-12:45	

		<p style="text-align: center;"><u>OP-B01</u> <u>Vasily TROTSENKO</u> Synthesis, dielectric, Raman and IR spectroscopic studies of BiScO₃ phase samples with a perovskite-type structure</p> <p style="text-align: center;">12:30-12:45</p>
12:45-13:00	<p style="text-align: center;"><u>OP-A02</u> <u>Anthony FERRI</u> Investigating the nanoscale physical properties of electroactive PVDF-based nanocomposites</p>	<p style="text-align: center;"><u>OP-B02</u> <u>Amina DJEMMAH</u> Processing high permittivity rutile TiO₂ for all-dielectric metamaterials applications at terahertz frequencies</p>
13:00-13:15	<p style="text-align: center;"><u>OP-A03</u> <u>Lavinia- P. CURECHERIU</u> Role of composition on the electrocaloric properties of BaM_xTi_{1-x}O₃ ceramics</p>	<p style="text-align: center;"><u>OP-B03</u> <u>Asmita SHAH</u> Coping with the poor conductivity of organic semiconductor liquid crystals via carbon-dots dispersion</p>
13:15-13:30	<p style="text-align: center;"><u>OP-A04</u> <u>Azeez A.BARZINJY</u> Biosynthesis of Silver Nanoparticles and Their Applications in Harvesting Sunlight for Solar Thermal Generation</p>	<p style="text-align: center;"><u>OP-B04</u> <u>Jamal BELHADI</u> Control, quantification, and mapping of elastic strains in epitaxial ferroelectric BaZrO₃/BaTiO₃ superlattices</p>
13:30-14:45	<p>Photo of ISyDMA6 Group & Lunch</p>	
14:45-16:45	<p>Conferences: 5, 6, 7 and 8 Amphitheater C001</p> <p><u>Chairs : Prof. R. DESFEUX + Prof. M. STRICCOLI</u></p>	
14:45-15:15	<p><u>Conference 5 (Conf 05)</u> <u>Invited Speaker :</u> <u>Prof. Ashok VASEASHTA</u> <i>NJCU-State University of New Jersey, NJ USA</i></p> <p>Electrospun Nanofibers of High Performance Electret Polymers for Tactile Sensing and Wearable Electronics</p>	
15:15-15:45	<p><u>Conference 6 (Conf 06)</u> <u>Invited Speaker :</u> <u>Prof. Marisa A. FRECHERO</u> <i>GFQCIES, Departamento de Química ó INQUISUR Universidad Nacional del Sur (UNS)- CONICET, Bahía Blanca Argentina</i></p> <p>Complex permittivity method to determine the devitrification process in a glassy matrix. The correlation between the a.c. electrical behaviour and the non isothermal nucleation</p>	
15:45-16:15	<p><u>Conference 7 (Conf 07)</u> <u>Invited Speaker :</u> <u>Prof. Dumitru TSIULYANU</u> <i>CIMAN Research Centre of Department of Physics, Technical University of Moldova, Chisinau Moldova</i></p> <p>Physical ó chemical properties of sulfur enriched As-S-Ge glasses related to middle-range order structure</p>	
16:15-16:45	<p><u>Conference 8 (Conf 08)</u> <u>Invited Speaker :</u> <u>Prof. Mohamed-Ali AL-AKHRAS</u></p>	

	<p><i>Department of Physics</i> <i>Jordan University of Science & Technology (JUST), Irbid</i> <i>Jordan</i></p> <p>Novel therapeutic approach of using herbal nanopowder in Photodynamic therapy (PDT)</p>	
16:45-17:00	Coffee-break	
	<p>Oral sessions Sessions C and D Onsite</p>	
17:00-19:00	<p>Session C Amphitheater C001 Chair : <u>Didier FASQUELLE</u></p>	<p>Session D Room B014 Chair : <u>Gerard LEROY</u></p>
17:00-17:15	<p>OP-C01 <u>Prof. Yasuo CHO</u> Recording Medium Design Aiming at Realizing Ferroelectric Probe Data Storage</p>	<p>OP-D01 <u>Miriam ACHKAR</u> Characterization of Samarium Doped Barium Titanate Electrocaloric Ceramics Prepared by Sol-Gel Process</p>
17:15-17:30	<p>OP-C02 <u>Marie-Hélène CHAMBRIER</u> Ferroelectric state in -Ln₂WO₆ polymorphs stabilized in thin film form</p>	<p>OP-D02 <u>Manal BENYOUSSEF</u> Theoretical and experimental investigation of BFO-based nanomaterials for photocatalytic applications</p>
17:30-17:45	<p>OP-C03 <u>Leontin PADURARIU</u> Modeling of the dielectric properties in ferroelectric-based composites by Finite Element Method</p>	<p>OP-D03 <u>Shivani SHISODIA</u> Effect of Nanostructuring on Thermoelectric Properties of Polymer Nanocomposites</p>
17:45-18:00	<p>OP-C04 <u>Vasily TROTSENKO</u> Local symmetry breaking and formation of low-symmetry phase in Sr_{0.97}Ba_{0.03}TiO₃ ceramic and thin film studied by vibrational spectroscopy</p>	<p>OP-D04 <u>Soukaina CHAHIB</u> Dielectric characterizations of BaSnO₃ bulk ceramics and thin films</p>
18:00-18:15	<p>OP-C05 <u>Hassan YASSINE</u> Study of the aging of Lithium-ion coin cells with impedance and noise measurements</p>	<p>OP-D05 <u>Mohamed Aymen BEN ACHOUR</u> Piezoelectric properties of biobased poly(L-lactide) stretched films for energy harvesting applications</p>
18:15-18:30	<p>OP-C06 <u>Blandine FONTAINE</u> Optimization of (Ba,Ca)(Zr,Ti)O₃ lead-free piezoelectric ceramics properties by variation of the composition</p>	<p>OP-D06 <u>Gauthier LEFEVRE</u> Morphological characterization of innovative GaN passivation: insights into Normally-off MOS Capacitors</p>
18:30-18:45	<p>OP-C07 <u>Parthiban PALANI</u> Structural, morphological and frequency dependent dielectric properties of Sr_{1-x}CaxTiO₃ (0.30 ≤ x ≤ 0.40) ceramics</p>	<p>OP-D07 <u>Atul Atul S M TRIPATHI</u> Hybrid thin Film based Phototransistor Optimized by Dynamic Floating Film Transfer Method</p>
18:45-19:00	<p>OP-C08 <u>Hanadi BREISS</u> Ultra-porous composites based on epoxy foam loaded with carbon fibers for microwave absorption</p>	

Thursday December 16, 2021		
08:30-10:30	Registration & Conferences: 9, 10, 11 and 12 Amphitheater C001 <u>Chairs : Prof. D. FASQUELLE & Prof. D. TSIULYANU</u>	
08:30-09:00	<u>Conference 9 (Conf 09)</u> <u>Invited Speaker :</u> <u>Prof. Rachel DESFEUX</u> <i>Unité de Catalyse et Chimie du Solide (UCCS)</i> <i>University of Artois , Lens</i> <i>France</i> Nanoscale Ferroelectricity in Innovative Lead-Free Oxide Thin Films	
09:00-09:30	<u>Conference 10 (Conf 10)</u> <u>Invited Speaker :</u> <u>Prof. Luis Cadillon COSTA</u> <i>IBN and Physics Department</i> <i>University of Aveiro, Aveiro</i> <i>Portugal</i> Microwave radiation: applications in metrology and materials synthesis	
09:30-10:00	<u>Conference 11 (Conf 11)</u> <u>Invited Speaker :</u> <u>Prof. Marinella STRICCOLI</u> <i>National Research Council of Italy</i> <i>Institute for Physical and Chemical Processes - Bari Division, Bari</i> <i>Italy</i> Nanomaterials and their assemblies: advanced functionalities towards technological applications	
10:00-10:30	<u>Conference 12 (Conf 12)</u> <u>Invited Speaker :</u> <u>Prof. Mustapha AIT ALI</u> <i>Molecular Chemistry Laboratory Coordination Chemistry and Catalysis Unit</i> <i>Faculty of Sciences-Semlalia, Cadi Ayyad University, Marrakech</i> <i>Morocco</i> Chemical synthesis of 2D-nanomaterials: Functionalized silicene and phosphorene	
10:30-11:00	Coffee-break & Poster session (I) : Onsite	
	Oral Presentations : Online	
11:00-13:30	<u>Session VA</u> <u>Amphitheater C001</u> Chair of session : <u>Prof. Luis Cadillon COSTA</u>	<u>Session: VB</u> <u>Amphitheater Parreau</u> Chair of session : <u>Prof. Tamara PETKOVA</u>
11:00-11:15	<u>OP-VA01</u> <u>Giacomo BUCELLA</u> Electronic structure of defected polyethylene for Schottky emission	<u>OP-VB01</u> <u>Nidal KHEMMOU</u> Effect of an additive organic A1 in improving the quality of nickel electroplating on brass

11:15-11:30	<u>OP-VA02</u> <u>Najoia ARIBOU</u> Thermal and Spectral Dielectric Properties of Polypyrrole/Polymethylmethacrylate Composites	<u>OP-VB02</u> <u>Khaoula Mzioud</u> Synergistic formulation from Allium Sativum essential oil and diethyl thiourea for corrosion inhibition of carbon steel in 0.5 M H ₂ SO ₄ medium.
11:30-11:45	<u>OP-VA03</u> <u>Yassine NIOUA</u> Electric modulus spectroscopic studies of the dielectric properties in reduced Graphene Oxide loaded epoxy polymer composites	<u>OP-VB03</u> <u>Nouhaila FERRAA</u> The anti-corrosive property of apatite tricalcium phosphate on carbon steel in two acid media HCl 1M and H ₂ SO ₄ 0.5 M
11:45-12:00	<u>OP-VA04</u> <u>Yassine EL HASNAOUI</u> Dielectric Resonator with a Novel Antenna geometry fed by a microstrip line for 5G applications.	<u>OP-VB04</u> <u>Bhavna PAL</u> Molecular simulations of dielectric and spectroscopic properties of 4-cyano-4'-pentylbiphenyl liquid crystal and their comparison with experimental findings
12:00-12:15	<u>OP-VA05</u> <u>Zineb SAMIR</u> Dielectric spectroscopy of melt-extruded polypropylene carbon nanofiber composites	
12:15-12:30	<u>OP-VA06</u> <u>Marwa ZAHID</u> Low temperature synthesis and characterization of barium stannate titanate powders	
12:30-12:45	<u>OP-VA07</u> <u>Abdallah NAYAD</u> New two-dimensional functionalized silicon dispersible nanosheets prepared by direct exfoliation of calcium disilicide	
12:45-13:00	<u>OP-VA08</u> <u>Salma Kaotar HNAWI</u> Investigation of Aloe Vera Latex used as Natural Dye in TiO ₂ based Heterojunction and Liquid-Electrolyte Dye Sensitized Solar Cells	
13:00-13:15	<u>OP-VA09</u> <u>Faissal EL MANJLI</u> From red phosphorus to 2D phosphorene: synthesis and characterization	
13:15-13:30	<u>OP-VA10</u> <u>Youness HADOUCH</u> Giant electrocaloric effect and high energy storage efficiency in lead free BCTSn ceramic elaborated by sol gel method	
Friday December 17, 2021		
8:30-10:30	Conferences: 13, 14, 15 and 16 <u>Amphitheater C001</u> <u>Chairs of session: Prof. R. BENZERGA and Prof. M.A AL-AKHRAS</u>	

8:30-9:00	<p><u>Conference 13 (Conf 13)</u> <u>Invited Speaker :</u> <u>Prof. Nathalie LEMEE</u> <i>Laboratoire de physique de la Matière Condensée, UR 2081, Université de Picardie Jules Verne, 33 rue Saint-Leu, 80039 Amiens</i> <i>France</i></p> <p>Nanodomains in ferroelectric / dielectric superlattices : a key role in the structural and functional properties</p>
9:00-9:30	<p><u>Conference 14 (Conf 14)</u> <u>Invited Speaker :</u> <u>Prof. Maria ZDANOWSKA-FRACZEK</u> <i>Institute of Molecular Physics Polish Academy of Sciences, Pozna</i> <i>Poland</i></p> <p>Kinetics of the Phase Transformation under Pressure Studied by Impedance Spectroscopy</p>
9:30-10:00	<p><u>Conference 15 (Conf 15)</u> <u>Invited Speaker :</u> <u>Prof. Cyril POPOV</u> <i>Institute of Nanostructure Technologies and Analytics (INA)</i> <i>Center for Interdisciplinary Nanostructure Science and Technology (CINSAAT)</i> <i>University of Kassel, Kassel</i> <i>Germany</i></p> <p>Fabrication and Characterization of Single-Crystal Diamond Membranes for Photonic Devices</p>
10:00-10:30	<p><u>Conference 16 (Conf 16)</u> <u>Invited Speaker :</u> <u>Prof. Vid BOBNAR</u> <i>Condensed Matter Physics Dept., Jofef Stefan Institute, Jamova 39, 1000 Ljubljana</i> <i>Slovenia</i></p> <p>Nanostructured multiferroic Pb(Zr,Ti)O₃NiFe₂O₄ thin-film composites</p>
10:30-11:00	<p>Coffee-break & Poster session (II) : Onsite</p>

11:00 - 13:00	<p><u>Session OP-VC</u> <u>Oral Presentations Online</u> <u>Amphitheater C001</u> <u>Chairs : Prof. Y. CHO</u></p>	11:00 - 12:00	<p><u>Session PP-VA</u> <u>Poster Presentations: Online</u> <u>Amphitheater Parreau</u> <u>Chair : Prof. D. SINGH</u></p>
11:00 - 11:15	<p><u>OP-VC01</u> <u>Ilham BOUKNAITIR</u> AC conductivity and dielectric response of carbon dots/PMMA nanocomposite materials</p>	11:00 - 11:05	<p><u>PP-VA01</u> <u>Afaak LAKOUADER</u> Synthesis, structure, dielectric, and energy storage properties of Ba_{0.85}Ca_{0.15}Zr_{0.1}Ti_{0.9}O₃ ceramics under large electric field</p>
11:15 - 11:30	<p><u>OP-VC02</u> <u>Zakia ARIBOU</u> Effects of Additive in an Electrodeposition Bath on the Surface Morphologic Evolution of Electrodeposited Copper</p>	11:05 - 11:10	<p><u>PP-VA02</u> <u>Safia DRISSI</u> Preparation and characterization of Cu₂Fe_{1-x}CoxSn₄ thin films via sol-gel method</p>
11:30 - 11:45	<p><u>OP-VC03</u> <u>Zineb GARGAR</u> Electrical, and dielectric properties of Yttrium-doped BaTiO₃ ceramics</p>	11:10 - 11:15	<p><u>PP-VA03</u> <u>Afaak LAKOUADER</u> A comparative study of structural, electrical, and energy storage properties in lead-free BCZT ceramics: Influence of the reduced thickness of ceramics.</p>

11:45 - 12:00	OP-VC04 <u>Soukaina SAISSI</u> The improvement of mechanical properties of lead acid battery grids	11:15 - 11:20	PP-VA04 <u>Mohamed EL HASNAOUI</u> Lead titanate ferroelectric thin films prepared by polymeric precursor method
12:00 - 12:15	OP-VC05 <u>Messaoud HAMOUDA</u> The mechanism study of the breakdown process of air near the flashover discharge	11:20 - 11:25	PP-VA05 <u>Najoia ARIBOU</u> Investigation of dielectric properties of water dispersion of reduced graphene oxide/water nanofluid composite
12:15 - 12:30	OP-VC06 <u>Artyom PLYUSHCH</u> Composite multiferroics with phosphate ceramic as a matrix	11:25 - 11:30	PP-VA06 <u>Victor BOEV</u> Ureasilicate organic-inorganic hybrids doped with heteropoly acid
12:30 - 12:45	OP-VC07 <u>Sarunas SVIRSKAS</u> Dielectric relaxation in Ba(Ti _{1-x} Sn _x)O ₃ solid solutions	11:30 - 11:35	PP-VA07 <u>Martynas KINKA</u> Investigation of linker rotation dynamics in ZIF-8, ZIF-67 and ZIF-90 metal-organic frameworks using broadband dielectric spectroscopy
12:45 - 13:00	OP-VC08 <u>Ekaterina POLITOVA</u> Dielectric properties of new lead-free oxide materials ceramics on the base of KNN and NBT perovskites	11:35 - 11:40	PP-VA08 <u>Vania ILCHEVA</u> Encapsulation of TiO ₂ nanosized particles in ureasil organic/inorganic hybrid obtained by sol-gel method
		11:40 - 11:45	PP-VA09 <u>Said ELMASSI</u> Optimisation of the density of copper oxide nanowires synthesized by the electrochemical technique followed by annealing
		11:45 - 11:50	PP-VA10 <u>Mohammed BOUSSETA</u> Effect of RF power and annealing on the structural, optical and morphological properties of RF-sputtered V ₂ O ₅ thin films
13:00 - 13:40	Session PP-VB Poster session (II) Online		
13:00 - 13:05	PP-VB01 <u>Ali BOUGHAROUAT</u> A comparison of polypropylene-surface treatment by AC corona and dielectric-barrier corona discharges in the air		
13:00 - 13:05	PP-VB02 <u>Houssein EddineBOUSBA</u> Effect of different plasma working gas mixtures on the decontamination of fungus polluted water		
13:05 - 13:10	PP-VB03 <u>Abdeslem BELDJILALI</u> Influence of the Metal/Dielectric Contact on the Reliability of the Insulation Electrical Systems		
13:10 - 13:15	PP-VB04 <u>Saadia AFEISSA</u> A possible crosslinking behavior of crosslinkable Silane-XLPE HV insulation under cyclic accelerated weathering aging		

13:15 - 13:20	PP-VB05 <u>Hassan CHAIB</u> Electrical and optical properties of room temperature potassium niobate single
13:20 - 13:25	PP-VB06 <u>Abdellah HBAB</u> DFT investigation of structural, electronic and optical properties of lithium niobate in its ferroelectric phase
13:25 - 14:45	Lunch
14:45 - 16:45	Conferences: 17, 18, 19 and 20 <u>Amphitheater C001</u> <u>Chairs of session: Prof. M. JOUIAD & Prof. Y. CHO</u>
14:45 - 15:15	<u>Conference 17 (Conf 17)</u> <u>Invited Speaker :</u> <u>Prof. Roger M. LEBLANC</u> <i>Department of Chemistry, University of Miami, Coral Gables, FL 33146 USA</i> Physicochemical Characterization of a Novel Carbon Nanomaterial: Carbon Dots
15:15 - 15:45	<u>Conference 18 (Conf 18)</u> <u>Prof. Tamara PETKOVA</u> <i>Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, Sofia Bulgaria</i> Influence of synthesis route on morphology and conduction behavior of proton conducting electrolytes with perovskite-structure
15:45 - 16:15	<u>Conference 19 (Conf 19)</u> <u>Prof. Ratiba BENZERGA</u> <i>Univ Rennes, CNRS, IETR-UMR 6164, F-35000, Rennes France</i> Cork-based composites for microwave absorbing materials
16:15 - 16:45	<u>Conference 20 (Conf 20)</u> <u>Prof. Asma TRIKI</u> <i>Laboratory of Composites Materials, Ceramics and Polymers, University of Sfax Tunisia</i> Adhesion analysis of non-woven hybrid cotton fibers in unsaturated polyester by dielectric spectroscopy
16:45 - 17:15	Coffee-break
17:15 - 18:45	Awards & Closing

Ref.	List of Posters session (I) (Onsite)
PS-C01	<u>Ratiba BENZERGA</u> Electric field assisted dissolution of Al and Cu metal thin films
PS-C02	<u>Ratiba BENZERGA</u> Hybrid material to broaden the absorption bandwidth of a metamaterial absorber
PS-C03	<u>Petar PERVAN</u> Comparison of poled glass SIMS data with concentration profile simulations and corresponding refractive index

PS-C04	<u>Frédéric DUBOIS</u> Characterization of Liquid Crystals recovered from End-of-Life Liquid Crystal Displays using Dielectric Spectroscopy
PS-C05	<u>Frédéric DUBOIS</u> Dielectric properties of dispersions of nanoparticles in polymer/liquid crystal films
PS-C06	<u>Ratiba BENZERGA</u> High power microwave absorbers based on glass foam composites
PS-C07	<u>Hanadi BREISS</u> Effect of fiber length on microwave absorption frequency band of composites based on carbon fiber loaded epoxy foam
PS-C08	<u>Antonio DA COSTA</u> Fabrication of ferroelectric tunnel nano-junctions in P(VDF-TrFE) thin films with a fine control by Conductive-AFM
PS-C09	<u>Antonio DA COSTA</u> 2D material dependence on the crystallization and ferroelectric properties in organic P(VDF-co-TrFE) thin films
PS-C10	<u>Vesna BLAŽEK BREGOVIĆ</u> Electric field assisted dissolution of Al and Cu metal thin films
PS-C11	<u>Mégane LHEUREUX</u> Microstructure and nanoscale piezoelectric properties in Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ (BCTZ) thin films grown by pulsed laser deposition
PS-C12	<u>Cristina Elena CIOMAGA</u> Study of the structural, dielectric and ferroelectric properties in Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ ceramics
PS-C13	<u>Cristina Elena CIOMAGA</u> The role of microstructure on dielectric properties of polymer-based composites: Experiment and modelling
PS-C14	<u>Ratiba BENZERGA</u> "Synthesis and dielectric characterization of perovskite (Sr ₂ Ta ₂ O ₇) _{100-x} (La ₂ Ti ₂ O ₇) _x ceramics: application to dielectric resonator antennas"