

6th International Conference on Smart Materials and Spectroscopy (SMS'2023)

July 04 - 07, 2023 – Monastir, Tunisia



Scientific Program

Tuesday 4 July 2023	
14h-16h30	Reception and Registration
16h30-17h	Opening ceremony: Chairs: Essebti DHAHRI / Samir GUERMAZI / Mohamed GARGOURI
17h-17h40	Plenary Conferences (Hall 1), Chairman Essebti DHAHRI Manuel Pedro FERNANDES GRAÇA <i>University of Aveiro, Portugal</i> <i>Influence of specific cations insertion on the electrical and biological properties of a modified 45S5 Bioglass</i>
17h40-18h20	Plenary Conferences (Hall 1), Chairman Essebti DHAHRI Hamza Abid <i>Djillali Liabes University of Sidi Bel Abbas, Algeria</i> <i>Etude des propriétés électroniques des alliages semi-conducteurs</i>
	Oral presentations

	Dielectric Materials and Nanocomposites	Magnetic and Multiferroic Materials	Organics/Inorganics materials	Optical Materials and Laser Technology
	Hall 1: Chairman Samir Guermazi	Hall 2: Chairman Fathi Bahri	Hall 3: Chairman Abdelaziz Zouari	Hall 4: Chairman Mohamed Boujelben
18h20-18h30	Amira Saidi Effect of frequency on classical and relaxor ferroelectric behavior of substituted titanate $\text{Ba}_{0.7}\text{Er}_{0.16}\text{Ca}_{0.05}\text{Ti}_{0.91}\text{Sn}_{0.09}\text{O}_3$ compound	Abir Arfa Large magnetocaloric effect and magnetoresistance properties in $\text{La}_{0.8}\text{MnO}_3$ manganite	Hanen Elgahami Investigation of structural and ionic conductivity in the new organic inorganic bromide: $[(\text{C}_3\text{H}_7)_4\text{P}]_2\text{Cd}_2\text{Br}_6$	Sourour Ben Yahya Morphology, UV–visible and ellipsometric studies of a lithium-cobalt germanate compound
18h30-18h40	Imen Ibrahmi Elaboration et caractérisation du composé Li_2ZrO_3	Ala Hajji Elaboration and structural, microstructural and magnetic characterization of barium hexa-ferrite $\text{BaFe}_{12}\text{O}_{19}$	Arafet Ghoudi Structural and spectroscopic properties of a new hybrid compound $\text{C}_6\text{H}_9\text{N}_2\text{SbCl}_4$	Imen Elhamdi Experimental determination and modeling of structural, vibrational and optical properties of the $\text{ZnAl}_{2-x}\text{Cr}_x\text{O}_4$ ($x = 0$ and 0.05) spinels
18h40-18h50	Minyar Mnakri Study on the morphological, structural, and electrical proprieties of $\alpha\text{-LiCrO}_2$ prepared using solid-state reaction	Boutheina Abdellaoui Synthesis and characterization of new spinel ferrite compound for gas sensor application	Iheb Garoui Synthesis, Crystal structure and Electrical characterization of the new bi-(2-amino-5-methylpyridinium) hexa-chlorostannate compound	Sara Saidi Diagnostic électrique et optique d'une DBD dans le mélange Ne-Xe
18h50-19h	Mouna Ajili Synthesis and ionic conductivity studies of a lithium zinc diphosphate compound	Rim Lassoued Effect of sodium doping on the magnetic and magnetocaloric properties of the perovskite manganite $\text{Nd}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$	Chedli Ghanmi Structural and spectroscopic properties of charged diatomic systems FrLi^+ and FrNa^+	Lamia Saidi Optical and structural properties of zero-dimensional hybrid materials for up and down luminescence
Diner				

	Wednesday 5 July 2023			
09h00-09h40	Plenary Conferences (Hall 1), Chairman Mohamed GARGOURI Jean-François BARDEAU <i>University of Mans, France</i> <i>Raman detection of analytes in the 10-6 – 10-8 M range: Highlight on commercial SERS substrates and on a low-cost nano-rough gold substrate</i>			
09h40-10h20	Plenary Conferences (Hall 1), Chairman Mohamed GARGOURI Mustapha ZAGHRIoui <i>University of Tours, France</i> <i>Raman scattering and Photoluminescence on single crystals of rare earth orthochromite $R\text{CrO}_3$ ($R = \text{La, Pr, Nd and Sm}$)</i>			
10h20-10h50	Coffee break + Posters			
	Oral presentations			
Topics	Magnetic and Multiferroic Materials	Energy and mechanic storage Semiconductors and nanotechnology	Materials modeling	Clay Materials
	Hall 1: Chairman Hajer Guermazi	Hall 2: Chairman Mohamed Dammak Chi	Hall 3: Chairman Houcine Ammar	Hall 4: Chairman Mounir Medhioub
10h50-11h	Brahim Said Djellali Experimental and theoretical investigation of structural phase transition in the LaMnO_3 nano-crystalline LMO magnetic perovskite	Bachir Boudierba Bending studies of functionally graded plates using piezoelectric materials under mechanical and electrical loadings	Youcef Megrouss Electrostatic Properties Through Theoretical Investigation of The Compound $\text{C}_{14}\text{H}_8\text{N}_2\text{OS}_2$	Aida Affouri Organic and inorganic geochemistry for source and paleoenvironment reconstruction of the Saouaf Formation (Tortonian) carbonaceous rich clays in central-eastern Tunisia
11h-11h10	Mongi saliùni Ni–Cu–Co ferrite synthesized using the sol-gel method: effects of the Cr^{3+} ion concentration on its structural, electrical, and dielectric properties	Sabrina Baachaoui Polyimide-based Laser-Induced Graphene Supercapacitors with Enhanced Energy Storage Performance	Rihab Aloui Mo V line widths in the hot white dwarfs RE 0503-289	Ghada Bruina Mineralogy, petrography and geochemical studies of the Aoueuat greenstone belt rocks (Tasiast, Mauritania) and the role of the host rock in the emplacement of gold mineralization.

11h10-11h20	Raoua Fakraoui Magnetocaloric study, critical behavior and spontaneous magnetization estimation in $\text{La}_{0.6}\text{Ca}_{0.2}\text{Sr}_{0.2}\text{MnO}_3$ perovskite	Ichrak Ben Slima Study of structural and electrochemical properties of $\text{NaCu}_{0.2}\text{Fe}_{0.8-x}\text{Mn}_x\text{O}_2$ samples ($x = 0.4; 0.7$)	Safa Mohsin Ibrahim Calculating the even-even radii of nickel isotopes	Houria Elloumi Study of the interaction between Triassic rocks and Neogene magmatism in the structure of Oued Belif (Nefza, northern Tunisia) Tunisia
11h20-11h30	Benmehrez Rached Design and control of permanent magnet synchronous motor for steering system	Thamer Aloui Photoelectrochemical Impedance Spectroscopy (PEIS) analysis in CIGS photocathodes on modified mesoporous TiO_2 for CO_2 reduction and H_2 production: Energy and environment applications	Ichrak Gassoumi Comprehensive device modelling and performance analysis of MASnI_3 based perovskite solar cells using various transport materials	Rihem Jemai The removal of methyl orange dye from an aqueous solution using a composite of porous starch aerogel and organoclay
11h30-11h40	Hedi Garbouj Study of skyrmions properties in frustrated magnetic spin systems	Khaled Kharrati Thermal performances and environmental analysis of a new composite building material based on plaster and Luffa Sponges' Fibers of Tunisian	Sahbi El Hog Skyrmions on elastic surfaces	Chadha Mejri Quantitative XRD Investigation of external constraint coupling strength on cation exchange capacity of Clay Membranes
11h40-11h50	Abir Salhi Synthesis and characterization of new materials for magnetic refrigeration application at high temperature	Amal Raouafi Laser-Induced Graphene Electrodes Modified with Electroactive Polymers for Energy Storage	Hanen Souissi Spectroscopic Study of the Electronic Properties of AgH	Rim Rekik Ellouze The potential use of the sands of northeastern Tunisia in the synthesis of ceramic pigments and their industrial applications
11h50-12h	Imen Chihi Understanding the critical behavior of $\text{La}_{0.6}\text{Ba}_{0.2}\text{Sr}_{0.2}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ ($x = 0; 0.03$ and 0.06) compounds around the critical temperature	Mariam Azabou Mechano-synthesis of nanostructured nickel-iron alloy: Microstructure, and Hyperfine properties	Salah Bouazizi Molecular dynamics simulation of ethanol-water mixtures: Effect of solvent composition on structural and dynamical properties	Sihem Rmili Comparative characterization of OM-rich levels by XRD and IR: example of El Haria (Paleocene) and Bou Dabbous (Ypresian)
12h-12h10	Emna Bouzaïene Assessment of structural, magnetic, magnetocaloric properties and critical behavior of $\text{La}_{0.6}\text{Bi}_{0.1}\text{Sr}_{0.2}\text{Ca}_{0.1}\text{Mn}_{0.9}\text{Cu}_{0.1}\text{O}_3$ manganites	Wissem Zayani Investigation of the electrode (AB5-type) / electrolyte interface properties through Electrochemical Impedance Spectroscopy as a function of immersion time	Mouna Medimagh Bonding and Noncovalent Interactions Effects in 2,6-Dimethylpiperazine-1,4-Diium Oxalate Oxalic Acid: DFT Calculation, Topological Analysis, NMR, and Molecular Docking Studies	Najah Majouri Characterization and Evaluation of Tunisian Clay to Develop New Thermal Insulating Building Materials

12h10-12h20	Sana Meftah Structural characterization, magnetic and magnetocaloric properties of the double perovskite $\text{La}_2\text{NiMnO}_6$	Mohamed Amine Djebbi Ultrasensitive Electrochemical Magnetoimmuno sensing of Cardiac Troponin-T Biomarker Based on Gold Nanoparticles Coated Nanoscale Zero-valent Irons	Slim Elleuch Experimental and theoretical studies on the structural and optical properties of a new Metal-Organic Framework material	Zeineb Hamden Bioethanol production from by-products date palm
12h20-12h30	Chedia moualhi Impact of the microstructure on the magnetic properties of bio-synthesized Cd-substituted spinel ferrite nanoparticles	Halima Loukil Etude d'une pile à combustible à membrane échangeuse de proton (PEMFC) pour la production d'électricité	Mokhtaria Drissi Synthesis, Crystal Structure, DFT Calculations, NLO properties and Hirshfeld Surface and molecular docking analysis on (E)-N-(3-methoxybenzylidene)-2-(quinolin-8-yloxy)acetohydrazide: A combined experimental and theoretical study	Monia Ben Ammar Study of the organic matter content from a qualitative and quantitative point of view in ancient sedimentary rocks using a coupling of TG/DTG and FTIR
12h30-12h40	Riadh Fersi Annealing effect on microstructure and magnetic features of nanocrystalline ZrFe films	Mohamed Nafti Bessadok Physical properties of $\text{SiO}_2/\text{Zn}_2\text{SiO}_4$ ceramic composite enriched by Eu^{3+} ion with enhanced thermal sensitivity at low temperatures	Othmen Khaldi Methods to identify Phase transition in perovskite materials : Ab-initio and experimental point of views	Rihem Nour Impact de la localisation géographique sur la composition de la matrice dentaire : étude par la technique LIBS
12h40-12h50	Safa Mnefgui Impact of B-site substitution on structural and magnetocaloric properties of $\text{La}_{0.5}\text{Pr}_{0.1}\text{Sr}_{0.35}\text{Mn}_{1-x}\text{Ti}_x\text{O}_3$ samples	Chokri Khaldi Investigation of the electrode (AB5-type) / electrolyte interface properties through Electrochemical Impedance Spectroscopy as a function of immersion time	Tarek Larbi Combined experimental and DFT studies on the spinel oxide Mn_3O_4 and NiMn_2O_4 and a quantum mechanical prediction of the structural stability and vibrational properties of low dimensional Yttrium oxide Y_2O_3	Sabria Malika Mansour Valorization of marble waste combined with silica fume used as cement substitution in eco-self-compacting concrete
12h50-13h	Jemi dhahri Magnetic, magnetocaloric, magnetotransport and magnetoresistance properties of manganites $\text{La}_{0.60}\text{Ce}_{0.05}\text{Ba}_{0.35}\text{Mn}_{1-x}\text{Ru}_x\text{O}_3$ ($0 \leq x \leq 0.2$) perovskite	Yethreb Essouda Magnetic properties of the perovskite $\text{Pr}_{0.9}\text{Sr}_{0.1}\text{MnO}_3$: Monte Carlo Simulation versus experiments	Feriel Abid Development of "Greener" pathways for the synthesis of furanic polyesters	Mohamed Taibi Evaluation of the adsorptive capacities of local clay from the Tiaret region on the adsorption of jass Methylene blue (MB)
13h–15h	Lunch break			

15h30-16h10	Plenary Conferences (Hall 1), Chairman Samir GUERMAZI Gérard LEROY <i>University of Littoral Côte d'Opale, France</i> <i>Measurement and Analysis of electrochemical noise in Li-ion batteries</i>			
16h10-16h50	Plenary Conferences (Hall 1), Chairman Samir GUERMAZI Amina TACHAFINE <i>University of Littorale Côte d'Opale, France</i> <i>Impedance spectroscopy of Lead-free ferroelectric materials for environmentally friendly capacitors applications</i>			
16h50-17h20	Coffee break			
	Oral Presentation			
Topics	Optical Materials and Laser Technology	Dielectric Materials and Nanocomposites	Organics/Inorganics materials	Nanomaterial for environmental remediation
	Hall 1: Chairman Mohamed Dammak Phy	Hall 2: Chairman Lassaad El Mir	Hall 3: Chairman Monem Krichen	Hall 4: Chairman Hajer Guermazi
17h20-17h30	Dhouha Hcini Structural and optical properties of $\text{Ni}_{0.4}\text{Cu}_{0.4}\text{Cd}_{0.2}\text{Fe}_{2-x}\text{Cr}_x\text{O}_4$ ($x=0;1$) ferrites synthesized by sol-gel method	Wafa Zayoud Electric and dielectric characterization of $\text{Ta}_2\text{O}_5/\text{SiO}_2$ multilayer	Amal Abdouli Corrosion Inhibition of Stainless Steel in Acidic Medium by Ascorbic Acid/Layered Double Hydroxide Composite	Abdelkader Chougui Synthesis and application of modified membranes in the treatment of liquid effluents
17h30-17h40	Ahmed Bouri Eu-doped alpha-alumina incorporated in silica glass matrix for blue and red photoluminescence	Rania Lataoui Dielectric and electrical property analyses of $\text{La}_{0.7}\text{Sr}_{0.3}\text{O}_3$ and $\text{La}_{0.7}\text{Sr}_{0.3}\text{Fe}_{0.8}\text{Ti}_{0.2}\text{O}_3$ ceramics	Soulayma Mastouri Crystal growth and characterization of benzimidazolium perchlorate	Jacem Wannassi HKUST-1 and conducting polymer-based electrochemical sensor for high-performance cadmium ion detection
17h40-17h50	Ayoub Cherni Binding energy and photoionization cross-suction of donor impurity in CdS/ZnSe core/shell spherical quantum dots	Youssef Moualhi Recognizing the contribution of hopping and tunneling processes to the conductivity behavior of the phase-separated manganite ceramics	Yassine Chaker Influence of chloride and hydrogensulfate anions in two polymerised ionic liquids based on the poly(1-2(Dihydroxyethyl)-3-vinylimidazolium	Meriem Bendjelloul Influence du greffage de groupements fonctionnels sur la surface de biopolymere lors de l'adsorption de polluants organiques
17h50-18h00	Soukaina Chahib Elaboration and characterization of cobalt-doped BaSnO_3 thin films	Hamida Goudria Spectroscopic properties, conduction mechanisms and Summerfield scaling of Bi and Fe based barium titanate ceramics.	Aya Toumi Synthesis, Crystal Structure, Hirshfeld surface and Vibrational behavior of a new organic-inorganic hybrid Material: $[\text{C}_{10}\text{H}_{10}\text{N}_2]_2(\text{SbCl}_4)_{2.2}\text{Cl}$	Basma Ben Salem Structural, Optical, and Electrical Properties of a Binary Metal Oxide Nanocomposite for Photocatalytic Applications

18h00-18h10	Iman Ouahab Design and simulation of an All Optical Half-Subtractor Based on Photonic Crystal Nanotechnology	Hayet Jellali Electrical properties and conduction mechanisms of 1D hybrid Perovskites $(\text{CH}_3)_2\text{NH}_2\text{Cd}_{(1-x)}\text{Cu}_x\text{Cl}_3$	Oumaima Mastouri Crystal growth and optical properties of a supramolecular perchlorate salt of 4-aminopyridine.	Ferid Ben Nasr Synthesis, characterization of (Fe, Sn) doped and co-doped Copper oxide nanoparticles and evaluation of their antibacterial activities
18h10-18h20	Touka Dabbebi Investigations of microstructural and impedance spectroscopic properties of $\text{Mg}_{0.5}\text{O}_{0.5}\text{Fe}_{1.6}\text{Al}_{0.4}$ ferrites prepared using sol-gel method	Hend Kacem Phase structure and energy storage performance for Ca and Sn doped BaTiO_3 -based lead-free ferroelectric ceramic	Khaoula Ben Brahim Structural phase transition and molecular dynamics in plastic organic-inorganic crystal: TBA FeCl_4	Wael Albouchi Effect of reactant ratio and nanofillers type on the microstructural properties, porosity fluctuations and heavy metal removal ability of chitosan-clay hybrid materials
	Diner			

	Thursday 6 July 2023			
8h30-9h10	Plenary Conferences (Hall 1), Chairwoman Hajer GUERMAZI Fathollah VARNIK <i>University of Ruhr-Bochum, Germany</i> <i>Solvent effects in shape memory polymers: Experiments and computer simulations</i>			
9h10-9h50	Plenary Conferences (Hall 1), Chairwoman Hajer GUERMAZI Abdalla AL-KELSH <i>University of Tripoli, Libya</i> <i>Electro-physiological study of the heart cases using ECG</i>			
	Oral Presentations			
Topics	Semiconductors and Nanotechnology	Dielectric Materials and Nanocomposites	Optical Materials and Laser Technology	Dielectric Materials and Nanocomposites
	Hall 1: Chairman Fathi Bahri	Hall 2: Chairman Souha Kammoun	Hall 3: Chairman Thamer Dammek	Hall 4: Chairman Abdallah Ben Rhaïem
10h00-10h10	Macho Anani III-nitrides semiconductor optical waveguide characterization	Fawzi Elmissawi Study of alternative current conduction mechanisms on the $\text{NaFe}_{1/2}\text{Mn}_{1/2}\text{O}_2$ - based electrode positive	Emna Gnenna Effect of heat treatment on structural, morphological, and optical properties of thermally evaporated In_2S_3 thin films	Sana Jebali Impedance, Modulus properties, and intrinsic mechanism of the optoelectronic $\text{Ba}_{(1-x)}\text{Co}_x\text{TiO}_3$ nano-compounds

10h10-10h20	Jihed Laifi Mosaic Structure of GaN film grown on sapphire substrate: Impact of thermal annealing on the Tilt and Twist angles	Hajer Saadi Improving the structural and dielectric behaviors of ZnO through Co doping	Halima Hammami Structural, morphological, linear, and nonlinear optical properties of Cu ₂ CoSnS ₄ thin films	Imane Layaida Conduction mechanisms and dielectric relaxor behavior of Li-Cr ferrite nanoparticles
10h20-10h30	Sabrine Mourad A comparative study of annealing effect on properties of IZO thin films grown on Si-p deposited by PLD	Hanen Dardouri Synthesis, structural, and ionic conductivity characterizations of Li ₃ Fe ₂ (PO ₄) ₃ compound.	Oumayma Abbassi Structural and optical properties of thermally evaporated Cu ₁₄ Sb ₄ S ₁₃ thin films annealed in air atmosphere	Ben Chamekh Marwa Complex impedance, dielectric properties and electrical mechanism of Ba _{0.7} Sr _{0.3} TiO ₃ and Ba _{0.6} Sr _{0.4} TiO ₃ perovskite oxide
10h30-10h40	Haykel Mzoughi Exploring the electro-thermal properties of dual metal gate AlGaIn/GaN HEMTs at different gate lengths	Ammar Ghodhbani Impedance spectroscopy tool for the investigation of the electrical transport properties of La _{0.8} Ca _{0.2} Mn _{0.5} Cu _{0.5} O ₃ compound	Maher Jdir Development of hybrid nanocomposites P3HT/Indium-doped ZnO for Organic Field-Effect Transistor application: Fabrication, characterization and device performances	Oumayma Amorri Impact of Bi doping on the structural and physical properties of LaCrO ₃
10h40-10h50	Mohammed Khadraoui Synthesis of (Bi ₂ S ₃)(γ-MnS) composite thin films deposited by spray pyrolysis and their characterization	Raouia Jemai Admittance spectroscopy analysis of hydrogenated amorphous silicon deposited by PECVD and HWCVD	Mouna Idoudi Study of the optical properties via spectrophotometric and photoluminescence measurements of CuSbS ₂ thin films deposited by the GLAD technique	Ahmed Suifi Ceramiques ferroelectriques nanostructures
10h50-11h20	Coffee break + Posters			
11h20-11h30	Naoures Kedidi AsBiX ₃ (X = S, Se, Te) Monolayers: Auxetic Semiconductor with Highly Anisotropic Mechanical Properties	Seif Eddine Mnassri Microstructural, electrical, and dielectric characteristics of LaBaCeFeNiO ₃ Composite produced by sol-gel technique were studied as a function of Ni doping concentration.	Kawthar Abid Unveiling the Unprecedented Clusteroluminescence Mechanism in a Novel 2D Hybrid Material with Tunable Photophysical Properties	Amira Zaafouri AC conductivity and dielectric behavior of a new double perovskite PrNaMnMoO ₆ system
11h30-11h40	Hejer Ben Soltane Study of the effect of oxygen flux annealing on the physicochemical properties of silver oxide thin films	Abir Hadded Influence of copper substitution on structural, magnetic and magnetocaloric properties of Cu _x Mn _{3-x} O ₄ materials	Ikhlas Kachou Synthesis and characterization of nanophosphors doped rare earths for thermometry and display applications	Abd-Raouf JDIDI Electrical and dielectric behaviors for Cu _{0.6} Mg _{0.2} Co _{0.2} FeCrO ₄ spinel ferrite synthesized by sol-gel route at T=850°C

11h40-11h50	Mohamed Draoui The effect of nanoparticles powder on the Al-Si eutectic in a hypoeutectic Al-Si alloy	Amira Khelifi Structural, electrical and dielectric properties of $(\text{Ba}_{0.8}\text{Sr}_{0.2})_{0.7}(\text{Bi}_{0.9}\text{Sm}_{0.1})_{0.3}\text{Ti}_{0.7}\text{Fe}_{0.3}\text{O}_3$ ceramic	Zein El Abidine Aly Taleb Ultrasensitive optical thermometry via Tb^{3+} doped $\text{NaSrGd}(\text{MoO}_4)_3$ based on single band ratiometric luminescence.	Moufida Borni AC and DC conductivities of $\text{Si}_5\text{P}_6\text{O}_{25}$ compound
11h50-12h00	Houssem Eddine Hannachi Moiré interlayer exciton in TMD heterobilayer for TeraHertz applications	Samia Kraiem Electrical characterizations of the effect of Ga concentration on Ag/Ga:ZnO/p-Si/Au diode	Mouna Fhoula Down conversion and luminescent thermometry of $\text{Pr}^{3+}/\text{Yb}^{3+}$ doped $\text{Y}_2\text{Mo}_4\text{O}_{15}$ phosphors	Ikhlass Ben Salem Electrical and magnetoresistive properties of $\text{Pr}_{0.7}\text{Sr}_{0.25}\square_{0.05}\text{MnO}_3$
12h00-12h10	Asma Miled Investigation of the effect of Anti-solvent treatment on the chemical, morphological, optical, and electrical properties of hybrid perovskite solar cells	Abir Slimani The effect of sintering temperature on the structural and electrical properties of spinel ferrites $\text{Mg}_{0.4}\text{Cd}_{0.2}\text{Cu}_{0.4}\text{FeCrO}_4$	Nabiha Missaoui Study of the structural and optical properties of spinel ferrites $\text{NiCd}_{0.3}\text{Co}_{0.3}\text{Fe}_2\text{O}_4$	Walid Mansouri Study of structural, dielectric, and optical properties of $\text{Ni}_{0.4}\text{Cu}_{0.4}\text{Co}_{0.2}\text{Fe}_2\text{O}_4$ spinel ferrite for electrical and optical applications
12h10-12h20	Narimen Chakchouk Optical studies and electric response of the semiconducting CuMO_4 (M=Mo and W) compounds	Fatma Namouchi Enhanced conductivity and conduction mechanisms in hybrid Epoxy based nanocomposites for dielectric applications	Nihel Hsouna Europium and Terbium Co-Doped Phosphate Glasses for White luminescence Applications	Sarra Hajlaoui Structural, electrical and dielectric modulus studies of $\text{Cu}_{0.6}\text{Cd}_{0.2}\text{Mg}_{0.2}\text{Cr}_2\text{O}_4$ spinel oxide
12h20-12h30	Ameni Koutty Elaboration et caractérisations des couches minces à base de $\text{Sn}_2\text{Sb}_2\text{S}_5$ déposées sur des substrats inclinés et/ou en mouvement de rotation	Mohamed Mounir Bouzayani Investigation of structural, morphological, and electrical characterization of $\text{KSr}_{0.5}\text{Fe}_2\text{O}_4$ compound	Kamel Saidi Optical vacuum sensor based on lanthanide upconversion-luminescence thermometry as a tool for ultralow pressure sensing	Manel Ben Abdessalem Electrical properties of $0.8(\text{Ba}_{0.8}\text{Sr}_{0.2})\text{TiO}_3\text{-}0.2(\text{Bi}_{0.85}\text{Yb}_{0.15})\text{FeO}_3$ compound
12h30-12h40	Sinda Alaoui Tin(IV) based organic–inorganic hybrid semiconductors with high thermal stability and electric properties	Chaima Ben Makhoulf Dielectric and Electrical Properties of $\text{Cu}_{0.6}\text{Mg}_{0.2}\text{CO}_{0.2}\text{Fe}_2\text{O}_4$ Ferrites Synthesized Using Sol-Gel Method	Safa Hamdi Effect of Dy dopant on the structural, optical and electrical properties of ZnO nanopowders synthesized by co-precipitation method	Houda Mansour Co-precipitation preparation and characterization of (Mg, Cu) co-doped TiO_2 nanoparticles
13h:00–15h	Lunch break			

Friday 7 July 2023

8h30-9h10	Plenary Conferences (Hall 1), Chairman Lassad ELMIR Ali Zaoui <i>University of Sidi Bel-Abbès of Algeria</i> New semiconductors for optoelectronic applications: Structure & Properties.			
9h10 – 9h50	Plenary Conferences (Hall 1), Chairman Lassad ELMIR Lotfi Bessais <i>University of Paris-Est Creteil, France.</i> Multifunctional Co-based intermetallic alloys			
Oral Presentations				
Topics	Nanomaterial for environmental remediation	Magnetic and Multiferroic Materials	Dielectric Materials and Nanocomposites	Optical Materials and Laser Technology
	Hall 1: Chairman Hichem Smaoui	Hall 2: Chairman Mohamed Ellouz	Hall 3: Chairman Abdelhedi Aydi	Hall 4: Chairman Karim Karoui
10h00-10h10	Moncef Ben Amor Étude des propriétés physiques de l'oxyde de cuivre Cu2O en couche mince : Application à la détection de l'éthanol	Samia Aydi Structural and spectroscopic studies of LiMnNbO4 spinel ceramic	Leila Miladi Ionic conducting characteristics of the solid electrolyte LiMgPO4	Ibtissem Riahi Influence of sputtering power on the properties of Zinc-Tin-Oxide thin films
10h10-10h20	Imen Hemmedi Chemically reduced Graphene Oxide thin films for Methylene Bleu photocatalytic degradation	Rawaa Abdallah Electrical and Magnetimarwac characterizations of an organic AnE-PVstat material	Yosra Zidi Preparation and characterization of Barium Strontium Titanate by solid-state reaction	Sonia Ben Slama Effect of Ni metal on the structural and optoelectronic properties of thin silicon layers
10h20-10h30	Mohamed Mastouri Molecular Dynamic Investigation for the Immobilization of a Novel Peptide anti-OTA into Graphene Surface	Khouloud Abiedh Evaluating the optoelectronic properties of individual CsPbBr3 microcrystal by Conductive-AFM characterization	Marwa Ben Chamekh Complex impedance, dielectric properties and electrical mechanism of Ba0.7Sr0.3TiO3 and Ba0.6Sr0.4TiO3 perovskite oxide	Abdelkarim Rjiba Water Structure in a mesoporous bioactive glass studied by DSC and 1H MAS NMR
10h30-10h40	Amel Gouasmia Electrical and dielectric study of ZnO and ZnO nanoparticles doped by 5% Bi2O3	Ahmed Selmi Impact of 5% Mn-substitution on magnetic and magnetocaloric properties in Pr0.7Ca0.3MnO3 (Cr, Ni, Co and Fe)	Darine Harrabi Structural and dielectric properties of Mg0.6M0., 4Cr2O4 (M = Ni and Cu) chromites synthesized by sol-gel method	Imen Romdhane Structural, optical, and vibrational proprieties of the inorganic perovskite material of formula Cs2ZnCl4

10h40-10h50	Imene Feddal Élimination d'un pesticide, Diuron, par une argile algérienne modifiée pour la protection de l'environnement	Sarra Elaskri Structural, magnetic, and magnetocaloric properties of the sample $\text{Pr}_{0.9}\text{Sr}_{0.1}\text{Mn}_{0.91}\text{Ti}_{0.1}\text{O}_3$	Aymen Mbarki Quelques propriétés physiques et diélectriques sur les matériaux avec élaboration solide_solide	Oumayma Ayari Characterization of optical properties of Sm^{3+} doped phosphate glasses for reddish-orange light applications
10h50-11h20	Coffee break			
11h20-11h30	Fawzi Khachnaoui Structural properties of $\text{MgxCu}_{1-x}\text{O}$ nanopowder Prepared by the sol-gel method and their application as antibacterial activity	Mouna Wali Effect of sodium deficiency on the critical behavior near the paramagnetic to ferromagnetic phase transition temperature in $\text{La}_{0.8}\text{Na}_{0.2-x}\text{MnO}_3$ oxides	Olfa Rahal Structural, Microstructural and Electrical transport properties of $\text{Pr}_{0.9}\text{Sr}_{0.1}\text{Mn}_{0.95}\text{Ti}_{0.05}\text{O}_3$ manganite compound	Salim Karim Physical properties of spray pyrolyzed ZnO thin films obtained from nitrate, acetate and chloride precursors: Comparative study for Solar Cell Applications
11h30-11h40	Karim Omri Effect of Mn_2O_3 -doped on physical and photocatalytic properties of $\text{Mn}_2\text{O}_3/\text{Dy}_2\text{O}_3$ nanocomposites	Tarek Ben Slimen Synthesis and study of the structural and magnetic properties of cobaltite compound $\text{La}_{0.57}\text{Nd}_{0.1}\text{Sr}_{0.18}\text{Ag}_{0.15}\text{CoO}_3$	Mansour Boukthir Development, characterization, and studies of the electrical and dielectric properties of the compounds $\alpha\text{-NaMnO}_2$ and $\gamma\text{-NaMnO}_2$ optimized for battery-positive electrode materials	Fadwa Ayachi High sensitivity multi-mode radiometric thermometry of coupled and non-coupled $\text{Yb}_{0.5}\text{V}_{0.5}\text{O}_4$ tri-doped $\text{Er}^{3+}/\text{Yb}^{3+}/\text{Ho}^{3+}$ luminescent materials.am
11h40-11h50	Chahinaz Kandouci UhajlaWOC Systems Performance Study for Different Jerlov Water Types	Malek Lahbib Hybrid nanocomposite made of chitosan, montmorillonite, and zinc oxide nanoparticles: microstructural and functional characteristics	Ibtihel Soudani Investigation of structural, and electrical properties of multifunctional spinel ferrite $\text{LiMg}_{0.5}\text{Fe}_2\text{O}_4$	Nabil Zorgui Luminescence properties of Dy^{3+} doped phosphate glasses
11h50-12h00	Mehdi Messaad Synthesis, bioassay and molecular docking of novel pyrazole and pyrazolone derivatives as acetylcholinesterase inhibitors	Hajer Jeidi Effect of the pyrolysis temperature on the negative differential resistance in carbon/vanadium nanocomposite	Mohamadou Ba Effect of gallium-doped zinc oxide nanoparticles on the electrical characteristics bouof Organic Thin-Film Field-Effect Transistors based on P3HT: GZO hybrid blend	Jamila Dhahri Structural and optical properties of Co-Cu substituted Cd-Ni spinel ferrites for optoelectronic applications
12h00-12h10	Afef Dhaffouli A sensitive electrochemical sensor based on ZnO , SiO_2 -APTES for high detection of Pb(II) and Cd(II) ions	Malek Djeribi Synthesis and characterization of a hybrid material based on glycine functionalized polyoxoanion $[\text{SeMo}_6\text{O}_{21}(\text{O}_2\text{CCH}_2\text{NH}_3)_3]^{2-}$	Houda Felhi Deciphering the Structural Characterization, Hirshfeld Surface Analysis, Raman Studies, and Temperature-Dependent Magnetodielectric Properties of BiMn_2O_5	Nouha Mastour Electroluminescence performance of P3HT-CdSe-P3HT light-emitting diodes and study of its energy transfer dependence

12h10-12h20	Oukacha Douinat Etude de potentiel d'élimination de la Fluorescéine par un biosorbant nature	Nabiha ouled nasser Influence of Na addition on the magnetic and magnetocaloric properties of $\text{La}_{2-x}\text{Na}_x\text{NiMnO}_6$ ($x=0$ and $x=0.4$) double perovskite.	Marwa Jebli Synthesis, dielectric and relaxation behavior of lead-free La^{3+} and Nb^{5+} doped BaTiO_3 ceramic compound	Nozha Ben Amar Synthesis, characterization and optical thermometry of $\text{GdPO}_4:\text{Er}^{3+}$
12h20-12h30	Mohammed Amin Chemrak Synthesis of recycled PET membranes for methane gas dehydration	Saber Boubakri Highly efficient adsorption of anionic dyes using MgAl layered double hydroxide from aqueous solutions	Intissar Ghamgui Impedance spectroscopy study of Er-doped NBZT ceramics.	Jaber Elghoul Synthesis, structural and optical properties of Dy co-doped $\text{ZnO}:\text{Al}$ nanoammaparticles
12h30-13h00	Closing			
13h00	Lunch break			

Poster Presentations (Wednesday 5 July 2023: 10:20h-10h50)

Name	Title
Brahim Said Djellali	Kinetics, Phase Transformations and Sintering of Mg-doped LaMnO_3
Malika Ben Gzaïel	Advances and property investigation of organic-inorganic semi-conductor: $[(\text{CH}_3)_4\text{P}]_2\text{CoBr}_4$
Nouredine Mhadhbi	Palladium complex with 3-picolyamine ligand: Synthesis, physicochemical studies and DFT calculations
Abdelkader Yakoubi	Influence of the modified Becke-Johnson exchange potential on electronic properties: application to a series of half-heusler compounds XMSb
Karim Karoui	A new supramolecular semiconductor palladium (II) complex $[(\text{CH}_3)_3\text{N}(\text{CH}_2)_3\text{Br}]_2\text{Pd}_2\text{Cl}_6$: structural study, optical and electrical properties
Ouiza Cherif	Valorization of djbel onk phosphate by flotation process using fatty acids derived from paraffin oil
Abdallah Askri	Structural, morphological and dielectric characteristics of $\text{ZnO}/\text{SiO}_2/\text{Nb}_2\text{O}_5$ composite for energy storage applications
Rima Mohammed Abrahmeem Altalib	Synthesis, Structure, and property investigation of organic-inorganic compound $[(\text{C}_6\text{H}_9\text{N}_2)_3\text{Bi}_2\text{Cl}_9$
Fadhel Hajlaoui	Synthesis, Structure and Photoluminescence Properties of 0D Hybrid Tin (IV) Halide Perovskites-Like: $[\text{Cl}-(\text{CH}_2)_2-\text{NH}_3]_2\text{SnX}_6$ ($\text{X} = \text{Cl}; \text{Br}$)
Salem Yahiaoui	Experimental and theoretical structural determination, intermolecular charge transfer, Hirshfeld surface, NCI-RDG, and molecular docking for a novel 1,2,4-oxadiazole derivative
Amar Djemli	Prepared cordierite-mullite composite using local raw materials
Wala Trigui	Crystal structure, phase transitions and Raman scattering in the new non-centrosymmetric $[(\text{C}_3\text{H}_7)_4\text{N}]_3\text{Bi}_3\text{Br}_{12}$ compound
Yosra Zidi	First principal study of electronic, dielectric, and elastic properties of Sr-doped BaTiO_3
Sara Saidi	Diagnostic électrique et optique d'une DBD dans le mélange Ne-Xe
Nabil Zouari	LEAD-Free perovskite nanocrystals embedded in polymeric electrospun nanofibers for fluorescent sensors (LEAF)
Nissaf Mzabi	Effects of synthesis medium on structural, dielectric and conduction properties of zinc oxide nanoparticles
Khalil Lazaar	A study of the potential to remove pollutant dyes cationic and anionic from wastewater by Tunisian natural clay
Macho Anani	Au/SiC-6H Schottky Barrier Diode Interface States Characterization Related To Temperature
Nadia Khelifi	Evaluation of physicochemical and antibiofilm properties of copper oxide based nanomaterials

Sara Lebid	Optical Sensor For Dissolved Oxygen Measurements In Water
Malek gassoumi	Electrical and dielectric behaviors for $\text{Cu}_{0.6}\text{Mg}_{0.2}\text{Co}_{0.2}\text{FeCrO}_4$ spinel ferrite synthesized by sol–gel route at $T=850^\circ\text{C}$
Hichem Chaalal	Mathematical modeling of the Hg (II) removal from aqueous solutions onto granular activated carbon prepared from olive stones in a fixed-bed column
Mohamed Ben Bechir	Photoluminescence, Raman and Photosensitive Dielectric Properties of Lead-Free Antimony-Based $\text{Cs}_3\text{Sb}_2\text{Br}_9$ Single Crystals for energy storage devices
Amal Ayadi	Impact of Fe-doping on the structural and optical properties of CuO nanoparticles
Marwa Jeddi	Impact of Potassium substitution on magnetocaloric and magnetotransport properties of $\text{Nd}_{0.6}\text{Sr}_{0.4-x}\text{K}_x\text{MnO}_3$ manganite
Amira Deloum	Investigating the Structural and Electronic Properties of AlN/GaN Superlattices Along (110), (110), and (111) GrowthAxes Using First Principles
Mimouna Oukli	Strong Orbital Coupling and Bowing Effect in GaAsN
Sihem Menassel	Morphology and superconductivity studies of Sndoped Bi-2212 single crystals
Lotfi Sellaoui	Adsorption of herbicide Diuron on activated carbons: Isotherms, modelling and thermodynamic studies
Mounya Zenasni	Electrochemical Synthesis of TiC/TiO ₂ nanocomposites based on nanostructured materials employing electroactive polymers.
Abdelhedi Lachabi	First-principles study of cubic $\text{B}_x\text{Al}_{1-x}\text{N}$ alloys
Meriem Hambi	Influence of thickness on the properties of ZnO thin films deposited by spray pyrolysis method for photovoltaic application
Ahmed Hichem Yah	Improved structural, optical and electrical Properties of Al doped ZnO thin films deposited by spray pyrolysis for Solar Cell Applications
	Poster Presentations (Thursday 6 July 2023: 10:50h-11h20)
Hajer Souissi	Experimental and optical studies of the new organic-inorganic Chloride: $[(\text{C}_3\text{H}_7)_4\text{N}]_2\text{CoCl}_4$
Houari Khachai	First principal study of the mechanical and, thermal properties of the fluoro-perovskite
Souad Chkoundali	Study of ceramic material $(\text{Ba}_{0.7}\text{Sr}_{0.3})_{0.4}\text{Na}_{0.6}(\text{Ti}_{0.9}\text{Sn}_{0.1})_{0.4}\text{Nb}_{0.6}\text{O}_3$ by Dielectric and X-Ray Diffraction
Saber Nasri	AC conductivity, Electric modulus analysis and Electrical conduction mechanism of RbFeP_2O_7 ceramic compound
Aicha Ayadi	Synthesis of ZnO –Al ₂ O ₃ nanocomposite powders and their use in the field of water pollution control
Naoufel Khemiri	Influence of Calcination Temperature on Structural properties of $\text{Cu}_2\text{ZnSnS}_4$ Powders
Adel Hammouda	Effect of the deposition angle on the optical properties of copper oxide thin films prepared by the GLAD technique
Ilias Mohalmmmed	Numerical Analysis of Surface Optimization of a combined adhesive joint between two adhesives under thermomechanical loading, and the influence of overlap length
Amine Ghermaoui	
Mohamed Loucif	CO ₂ capture by porous materials functionalized with amine sources
Kawther Ezzine	The investigation of the physical properties of the compound perovskite CsPbCl_3
Arslane Hatem Kacha	Effect of the ultra-thin GaN interlayer on the surface photovoltage in Au/GaAs Schottky barrier diodes
Ezzine Mohammed Chamseddine	Damage and failure of single lap joints with two adhesives
Amal Elghoul	Synthesis, Structure and Photoluminescence Properties of 0D Hybrid Tin(IV) Halide Perovskites-Like: $[\text{Cl}-(\text{CH}_2)_2\text{-NH}_3]_2\text{SnX}_6$ (X=Cl;Br)

Hajer Bouznif	Synthesis and characterization of metal complexes for applications in sensing and optoelectronics
Yessine Belhadj	Layered Arrangement in the Lead-Free Hybrid material (bromoethyltrimethylammonium)3Bi2Br9 : Structural Investigations and Properties
Souad Brick chaouche	Elaboration et caractérisation des nanoparticules d'oxyde de Fer par chimie verte: application à l'adsorption du colorant bleu de Méthylène
Ahmed Haddad	Elaboration et caractérisation des nanoparticules Bi-M par la méthode de Co précipitation
Yasser Abderrahim Khachai	First-principles study of lead-free halide perovskites
Hadj Barkat Kaarour	Optical and electric properties study of quantum perovskite light-emitting diodes
Yassine Wali	Elaboration and Optical studies on a new self-organized quantum dots crystal [C8H10N3]2CdCl5
Sondes Hajlaoui	Structural phase transition in [N(C3H7)4]2SnBr6 compound: X Ray powder diffraction, DSC measurement and Raman scattering investigation
Abdelfatteh Bouzidi	Dysprosium ion effect on the structural, optical, and dielectric characteristics of epoxy resin polymer composite panels for use as a transducer material
Foudil Sahnoune	Crystallization kinetics of LaMnO3 from sol-gel synthesized precursors
Bouthaina Shili	Electronic, optical and elastic properties of TiO2, Ta2O5 and Ti0.75Ta0.25O2 (TiTaO)
Yassine Ben Ali	Adsorptive Removal of Methylene Blue (MB) Dye From Aqueous Solution By Using Environmental-Friendly Adsorbent Composite Based on Hydroxyapatite/Xanthan Gum
Souha Gharbi	Study of the dielectric and optical properties of the double Delafossite Li2Fe2O4 compound synthesized by auto-combustion
Issa El Heda	Study of structural, morphological, optical, and electrical properties of spinel ferrite nanoparticles Mn _{0.5} Fe _{2.5} O ₄ synthesized by the auto-combustion method
Najet BAKI	Etude des propriétés Structurales, Optoélectroniques et Thermoélectriques des matériaux Pérovskites à base d'halogènes CsSnX3 (X=Cl, Br
Mahdi Hdidar	Elaboration and impedance spectroscopic study of polyvinyl alcohol crosslinked by 30% Oxalic Acid doped by various concentrations of potassium ionic liquid
Ikram Zidani	Double junction InGaP/Si using multiple quantum well with Improve efficiency
Bohra Ben Salah	Exploration of New Chiral Hybrid Semiconducting Palladium Halide Complexes: [(R)/(S)-2-Methylpiperazinediium]PdCl4
Ilhem Bargaoui	Reduced graphene oxide thin films thickness dependency for Chemical warfare agents detection
Nadjet Metadjer	Electronic and magnetic properties of Fe ₂ SiC
Mohammed Nadhir Djamel Eddine Cherief	Study of the effect of strain rate and temperature on the mechanical behavior of polycarbonate PC
Rania Mahdadi	Characterization of single-crystal Cu ₂ ZnSn(S _x Se _{1-x}) ₂ ingot grown by melting method for thin film solar cell application
Abdesselam Bouloufa	Numerical simulation of graded-bandgap Cu ₂ Sn x-1 GexS3 thin film solar cell for high efficiency
Nabila bitri hamdi	Chemically reduced Graphene Oxide thin films for Methylene Bleu photocatalytic degradation”
Ridha Briki	Synthesis and structural, electric, optical characterization of a new hybrid organic-inorganic compound