

PROGRAMME : La journée de la Matière Condensée, de l'Optiques, des Nanosciences et Applications (JMCON-2021) 23 et 24 Décembre 2021 à l'UM6P			
Wednesday 22 December			
Accueil des participants Salle IBN TOFAIL			
Thursday 23 DECEMBER			
Breakfast			
Salle: IBN TOFAIL			
Plenary Talk: Pr. Abdellilah Benyoussef, Title: Design of nanomaterials for energy harvesting and storage: Modeling and Simulation, Member of the Hassan II Academy of Science and Technology & LaMCScl, Physics department, Faculty of Science, Mohammed V University, Rabat			
ONLINE Plenary Talk: Pr. Ahmed Ennaoui Title: Photovoltaïque, Hydrogène vert, Captage du dioxyde de carbone, et Nanosynthèse-Nanoscience La prochaine décennie d'opportunités, Président du conseil scientifique d'IRESEN Comité de rédaction Matériaux d'énergie solaire et cellules solaires, Membre senior de l'IEEE / Fondateur du VLU.			
Coffee break			
Plenary talk: Pr. Hamid Ez-Zahraouy Title: Quantum Mechanics And Its Applications:-Materials Science -Quantum Cryptography, Condensed Matter and Interdisciplinary Sciences Laboratory (LaMCScl), Faculty of Sciences, Mohammed V University, Rabat.			
Invited Talk: Pr. El Mustapha FEDDI Title: Towards high photonic conversion solar cells: The Intermediate band solar cells. Mohammed V University, Rabat.			
Invited Talk: Pr. Adil Chaboun Title: Quantum dots: Charge retention and tuned light emission Abdelmalek Essaadi University, Tanger.			
LUNCH			
Salle IBN TOFAIL : 2D material and Nanostructure Session Chairman : Pr. El Mustapha FEDDI UM5, Rabat		Salle IBN SINA : Phosphorus Atom Session Chairman : Pr. Omar Mounkanchi. UM5, Rabat	
Invited talk: Pr. A. RiadSolh Titre: Pr. Vers une architecture Big Data basée sur les dispositifs quantiques afin d'instaurer une stratégie digitale plus efficace pour les entreprises marocaines. UM5, Rabat, Maroc.		Invited talk: Pr. M. Balli. Titre: On magnetocaloric materials: from bulk to nano. UIR, Rabat, Maroc.	
PhD Student: A. Boubekri. Titre: The compensation temperature behavior in a ferromagnetic tri-layer nano-graphene structure. UHII.FS.Ben M'Sik Casablanca.		PhD Student: F. El Manjli. Titre: High-Purity Black Phosphorus and 2D Phosphorene Synthesis by Low Pressure and Temperature Conditions for Energy Conversion and Storage. MASCIr, UCA.FSSM.	
PhD Student: F. Elfatouaki Titre: Electronic and Optical properties of 2D perovskite Cs2InAg(I1-xBrx6) dor solar cell application using DFT method. UCA, Marakech.		PhD student: M. Assimeddine. Titre: Physicochemical characterization of a natural phosphate and evaluation of its capacity to remove organic dyes from aqueous media. USMS, FP Khouribga.	
PhD Student: O. Farkad. Titre: Structural and electronic properties of AB- and AA-stacking bilayergraphene intercalated by Sr atom. UCA, FSSM, Marrakech.		Dr A. A. MEKKAOUl. Titre: Valorization of Moroccan Natural Phosphate as a Mesoporous Catalytic Carrier: Towards Nanoparticles Decorated Nanocatalysts. USMS, FP Khouribga.	
COFFEE BREAK			
PhD Student: J. Labrousse. Titre: Ultra-high capacity of physisorption of hydrogen molecule on AlC3 monolayer: First-principles calculations. UM5, Rabat.		Dr. A. Elouafi. Titre: Structural, magnetic and magnetocaloric study of the FePO4 phosphate compound. UHII, FS Ain Chock, EST Casablanca.	
ONLINE INVITED TALK: Mr. Christian KENFACK SADEM. Titre: Etude théorique du polaron et bipolaron dans les nanostructures : film d'Hélium, graphène et dichalcogénures de métaux de transition, University of Dschang-Cameroon.		PhD student: Y. Ouldhnini. Titre: Investigating the Structure Elasticity-Diffusion–Density Relationship of Soda Lime Phospho-Silicate Glass using Molecular Dynamics Simulations. USMS, FP Khouribga.	
PhD student: B. Abir. Titre: DFT study of thermoelectric properties of the half-Heusler alloys. UAE, Tétouan.		PhD student: H. Orfi. Titre: Deposition of Mono- and Bimetallic Nanoparticles on Mesoporous Natural Phosphate: preparation, characterization and application in 4-nitrophenol reduction.	
Friday 24 DECEMBER 2021			
Breakfast			
Salle IBN TOFAIL : Spintronic Session Chairman : Pr. Mohammed El Hafidi, Casablanca		Salle IBN SINA : Optics & Energy Session Chairman : Pr. Marwan Lakhfal, EST Laayoune	
Salle Al-Khazini : Computational physics Session Chairman : Pr. Hamid Ez-Zahraouy , UM5 Rabat			

09h30–10h00	Invited talk: Pr. Rachid Masrour Magnetoelectronic properties of Sr 2 (FeReCrW)O 6 and Sr2CrWO 6 double perovskites: A First-Principles and Monte Carlo simulations. Solid State Physic Laboratory, Faculty of Sciences, USMBAU, FS, FES.	Phd Student: M. El haoua. Titre: DFT study of structural, electronic, magnetic, elastic, vibrational, thermodynamic and thermoelectric properties of XCrP (X= Ni, Pd and Pt). USMBA.FSDM, Fès.	Invited talk: Pr Mohamed Naji Design of Glasses through Experiment and Modeling USMBA.FSDM, Fès
10h00 – 10h20	PhD student: R. Aharrouch. Titre: Magnetic properties and hysteresis behavior of a ferrimagnetic mixed spin-3/2 and spin-5/2 Ising nanowire. UCD, FSJ, El Jadida.	PhD student: O. Zakir. Titre: Synthesis and Characterization of TiO2 Nanotubes for Applications in Environmental Field. UCA, FSSM, Marrakech.	PhD student: H. HAOUAS. Titre: Ductile deformation for hollow nanoparticles using dynamic molecular. USMS, FP Khouribga.
10h20 – 10h40	PhD student: T. MOUHRACH. Titre: Phase Diagram and Thermodynamic Study of the Mixed Spin-1/2 and Spin-3 Blume-Capel Model: Renormalization Group Theory. USMS, FP Khouribga.	PhD student: R. Takassa. Titre: Structural, electronic and optical properties of 2D nanosheets CN, C2N2 and C4N2 in the nanotubular from resulting from N-doping small (3,3) SWCNT: a DFT study. UCA, Marakech.	PhD student: O. Choukri. Titre: Structural and Electronic properties of N-doping ultra-small diameter (2,2) SWCNT by using DFT study. UCA, FSSM, Marrakech.
10h40 - 11h10	COFFEE BREAK		
11h10 – 11h30	PhD Studen: S. Bakas. Titre: Spin compensation in a frustrated nanostructure. UHII.FS.Ben M'Sik, Casablanca.	Dr. L. Attou. Titre: CPTNTs (CuO/Pt-TNTs) as an electrode material for supercapacitors. UM5, Rabat.	PhD student: M. Y. Raia. Titre: STRUCTURAL, ELECTRONIC, MAGNETIC AND OPTICAL PROPERTIES OF Gd2Rh3Ge . SMBAU, FS, Fes.
11h30 - 11h50	PhD Student: H. Jebari. Titre: Theoretical investigation of electronic, magnetic, magnetocaloric and optical properties of Bi25FeO40 compound. UM5, Rabat.	PhD Student: Zakaryae Haman. Titre: Janus Aluminum Oxsulfide Al2OS : A promising 2D direct semiconductor photocatalyst with strong visible light harvesting. UMI, Meknès.	PhD student: E.M. Jalal. Titre: Monte Carlo study on the compensation behavior and hysteresis properties of a ferrimagnetic square Ising nanowire. UCD, FSJ, El Jadida.
11h50 - 12h10	PhD Student: A. BENBELLA. Titre: Volatile organic molecule sensing by Cu (100) stepped surface: A DFT investigation. UHII.FS.Ben M'Sik, Casablanca.	PhD Student: O. OUNAS. Titre: Photocatalyst Immobilization and Optimization for Organic Pollutant Degradation. UII, EHTP-FSAC, Casablanca.	Mr. M. Lamhani. Titre: Experimental and ab initio study of the structural, mechanical, optical, and electronic properties of cubic perovskites SrTiO3. USMS FP, Khouribga.
12h 10 - 12h30	PhD Student: H.Moatassim. Titre: Degradation mechanism of CH3NH3PbI3and enhancing its optical absorption through variety of doping sites. UM5, Rabat.	PhD Student: B. El Mechate. Titre: ADDITIONNAL INDEX EFFECT ON THE GENERATION OF PERFECT OPTICAL VORTEX BEAMS. UCD, FSJ, El Jadida.	PhD student: S.ZOUAOUI. Titre: Molecular Dynamics study of dislocation nucleation during Aluminum thin film deposition on Nickel substrate. USMS, FP Khouribga.
13 h00 - 14 h 00	LUNCH		
14 h - 14h 30	POSTER SESSION		
	Salle IBN TOFAIL : Thin film Session Chairman : Pr. Achahbar Abdelfattah, UAE-Tétouan	Salle IBN SINA : 2D Materials Session Chairman : Pr. Ihlal ahmed, UIZ-Agadir	Salle Al-Khazini : Sensors Session Chairman : Pr. Sajjeddine Mohamed, UCD.FSJ, El Jadida
14h30 - 14h50	Invited talk: Pr. Khalid Nouneh Title: Low cost solution processing and growth technologies of thin films and nanoparticles for energy and environments, Laboratory of Materials physics and subatomics LPMS, Ibn Tofail University, Kenitra	Dr Vivek Chaudhary Title: 2D materials: An essential need for emerging technologies UM6P, Benguerir	ONLINE Talk: Dr. FAICAL, Titre: Towards highly efficient sensors 2D-Materials based, MASCIR, Rabat
14h50 - 15h10	Dr. Talbi Title: Experimental and theoretical contribution on the electrical, optical, and thermoelectric properties of nanostructured thin films, Laboratory of Materials physics and subatomics LPMS, Ibn Tofail University, Kenitra	Dr H. ABSIKE Title: Density Functional Theory (DFT): Modeling & Simulation UM6P, Benguerir	Invited Talk: Dr. Brahim Lakssir, Presentation of the Mascir Institute, MASCIR Rabat
15h10 - 15h30	Phd student: M. Jebrane, Title: A DFT study of the effect of fluorination on the adsorption properties of FePc on reactive metal surfaces: Rh(111) and Ru(0001). UHII.FS.Ben M'Sik, Casablanca.	Phd Student: Youness Kaddar growth phosphorene on metal substrate, UM5/ECC/UM6P.	PhD student: Bikerouin. Titre: Tunable electronic properties of multilayered gallium nitride by strain and electric field: a first-principles investigation. UIR, Rabat
15h30 - 16h00	COFFEE BREAK		
16h00 - 16h20	Online Phd student Talk: Fouad Bentata, Title: Active optical metasurfaces based on change materials Ecole Centrale de Lyon, France	Dr G. Tiouitchi Title: Black phosphorus/phosphorene a promising 2D nanomaterials for nanocomposites applications UM6P, Benguerir	Dr S Lahlali Title: Electrical properties and conduction mechanism study for the synthesized nanomaterial Cu2SnS3 for photovoltaic applications. UCA-UM6P, Marrakech.
16h20 - 18h00	Round Table IBN TOFAIL ROOM: Chairman Abdelouahad El Fatimy		
	Clôture		
	JMCON teams links Ibn Tofail	JMCON teams links Ibn Sina	JMCON teams links Al-Khazini