

March 14th, 2022	
16:30 - 20:00	Registration (ODEP)

March 15th, 2022			
08:00 - 09:30	Registration		
09:30 - 10:00	Opening Ceremony		
10:00 - 10:30	<p style="text-align: center;"><b>Plenary 1 : Prof. M'hamed BOUTAOUS</b></p> <p style="text-align: center;"><b>Modeling additive manufacturing: the case of the selective laser Sintering (SLS)</b></p> <p style="text-align: center;">(CETHIL, INSA Lyon, France)</p>		
10:30 - 11:00	Coffee break		
11:00 - 11:30	<p style="text-align: center;"><b>Plenary 2 : Prof. Prof. Mouhaydine Tlemcani</b></p> <p style="text-align: center;"><b>An instrumental contribution to the optimisation of material manufacturing processes in a laboratory environment</b></p> <p style="text-align: center;">(University of Evora Portugal)</p>		
11:30 - 11:45	<p style="text-align: center;">Chawki Najwa</p> <p style="text-align: center;">Simulation and Optimization of (SrZrS<sub>3</sub>, CaZrS<sub>3</sub>) Chalcogenide Perovskites solar cells by using SCAPS-1D</p> <p style="text-align: center;">Morocco</p>	<p style="text-align: center;">Garmim Taoufik</p> <p style="text-align: center;">Analysis of electrical properties of a SnS/CdS/ZnO solar cell using numerical modeling SCAPS-1D and Impedance spectroscopy</p> <p style="text-align: center;">Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p style="text-align: center;">Azdine Ilhame</p> <p style="text-align: center;">Finite element modelling of steel-concrete adhesion</p> <p style="text-align: center;">Faculty of Sciences Ben M'sik, University Hassan II, Casablanca</p>
11:45 - 12:00	<p style="text-align: center;">Bouzikri Said</p> <p style="text-align: center;">Removal enhancement of Acid Orange 7 dye by adsorption onto Bifurcaria bifurcata algae activated carbon</p> <p style="text-align: center;">Faculty of Sciences, Chouaib Doukkali University</p>	<p style="text-align: center;">Essakhi Abdelaziz</p> <p style="text-align: center;">Calculating intrinsic parameters of pure Titanium used in implantology with numerical methods</p> <p style="text-align: center;">Faculty of Sciences Ain Chock, Hassan 2 University, Morocco</p>	<p style="text-align: center;">Bouhiyadi Samir</p> <p style="text-align: center;">Numerical Simulation of the Elastic Behavior for a Compressed Earth Solid Block.</p> <p style="text-align: center;">University of Moulay Ismail, FST Errachidia, Errachidia-Morocco</p>
12:00 - 12:15	<p style="text-align: center;">Assimeddine Meryem</p> <p style="text-align: center;">Photocatalytic degradation of Methyl Orange MO: Optimization using the Box-Behnken design (BBD)</p> <p style="text-align: center;">Sultan Moulay Slimane University of Beni Mellal</p>	<p style="text-align: center;">Fri Kaoutar</p> <p style="text-align: center;">Contribution to the study of the material elaborated by additive manufacturing</p> <p style="text-align: center;">National Graduate School for Arts and Crafts, University Moulay Ismail, Morocco</p>	<p style="text-align: center;">Akhrouf Asmaa</p> <p style="text-align: center;">Elaboration, structural properties and bioactivity behavior of borophosphate-based glasses</p> <p style="text-align: center;">Faculté des Sciences Ain Chock, University Hassan II, Casablanca</p>

12:15- 12:30	Fangachi Najoua Numerical simulation and comparative study of energy harvesting systems based on piezoelectric multilayers ENSAJ, Chouaib Doukkali University, El Jadida	Hairch Youssef Experimental visualization of the role of facemask in the COVID-19 pandemic Faculty of Sciences, Chouaib Doukkali University, Morocco	Aourik Oumaima Analysis of the resistance to crack propagation in SENT test specimens printed in ABS using parallel or crossed filaments between layers ENSEM, University Hassan II, Casablanca Morocco
12:30- 12:45	Baha Meryem Experimental Thermal conductivity of recycled High Impact Polystyrene (HIPS) and a numerical simulation of the heat transfer Faculté des Sciences ain Chock, Casablanca	Elmourabit Fahd an investigation to the electronic, mechanical properties of magnesium diboride (MgB2) for future energies application. Faculty of Sciences, University Ibn Zohr, Morocco	Jaefar Abderrahim Study and modeling of water transfers at the soil-root interface Chouaib Doukkali University
12:45 - 15:00	<b>Lunch</b>		
15:00 - 15:15	Tair Melaid characterisation of hydrogen storage materials CASABLANCA Morocco	Zouitina Said Aspects Optoelectronic of New $\pi$ -conjugated acceptor groups of thiophene: A TD-DFT study Faculty Polydisciplinary, Sultan Moulay Slimane University, Morocco.	El Assad Hatim Modeling Of Internal Soil Erosion By Moving Wall with Turbulent Flow Faculty of Sciences, Chouaib Doukkali University
15:15 - 15:30	Khiar Habiba Ni (II)-grafted Ag <sub>3</sub> PO <sub>4</sub> : enhanced photocatalytic performance and catalyst stabilization FP Khouribga Morocco	Benzehoua Halima Behavior of fiber coupling efficiency in oceanic turbulence Faculty of Sciences, Chouaib Doukkali University, Morocco	Oumaima El Ajouri Numerical investigation of hydrodynamic characteristics of gas-solid flow in a turbulent fluidized bed Faculty of sciences of Tetouan, Abdelmalek Essaadi University, Tetouan
15:30 - 15:45	Bourezza Amal Impedance spectroscopy analysis of TiO <sub>2</sub> doped Kaolin Faculty of Sciences and Technology, Cadi Ayyad University, Morocco	Battal Wafaa Effect of substrates (Glass, ITO and Quartz) on the properties of In doped ZnO thin films synthesized via ultrasonic spray technique Faculty of Sciences, Mohammed V University, Morocco	Bellahkim Mouad The Effect of the Span-Thickness Ratio on the Interlaminar Failure of Unidirectional Carbon / Epoxy laminate ENSEM, University Hassan II, Casablanca

15:45 - 16:00	<p>Elouahli Abdelaziz Hydroxyapatite and apatitic tricalcium phosphate: Two promising materials for heavy metals and organic molecules removal from contaminated water Faculty of Sciences, Chouaib Doukkali University</p>	<p>Hermama Chaïmaa Effect of boundary conditions on effective thermal conductivity of Polyurethane foam National School of Electricity and Mechanics, Hassan 2 University, Morocco</p>	<p>Hayani Mohamed Stability of an oscillatory Taylor–Couette flow in an upper convected Maxwell fluid Faculté des Sciences Aïn Chock, University Hassan II, Casablanca</p>
16:00 - 16:15	<p>Rejdali Hajar Modeling of Power Output for Piezoelectric Energy Harvesting Using PVDF Polymer ENSAJ, Chouaib Doukkali University, El Jadida</p>	<p>Chchiyai Zakaria Elaboration, crystal structure, optical and electrical properties of novel perovskite ceramics <math>Ba_{1-x}Bi_xTi_{1-x}Mn_xO_3</math> (<math>x = 0.3</math> and <math>0.4</math>) Faculty of Science and Technology, Hassan I University, Morocco</p>	<p>Ait El Fqih Mohammed Micrographic study of the effect of steel fillers on the mechanical properties of the jute reinforced epoxy composite ENSAM, Hassan II University of Casablanca, Morocco</p>
16:15 - 16:30	<p>Farid Zohra Study of the effect of pH, conditioning and flotation time on the flotation efficiency of phosphate ores by a soybean oil collector Morocco</p>	<p>Lahkale Redouane Effect of aluminum doping on optical and dielectric properties of mixed metal oxides derived from magnesium-aluminum based layered double hydroxides Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>Mouakkir Laila Numerical modeling of wave in the Casablanca-Mohammedia coastal area using the SWAN model Faculty of Sciences Ben M'sik, University Hassan II, Casablanca</p>
16:30 - 16:45	<p>Jaafar Nadia Inhibition of corrosion of C38 steel in HCl medium by Imidazole derivatives Faculty of Sciences, Chouaib Doukkali University</p>	<p>Zidane Mustapha Electrical and thermal transport properties of Fe–Ni based ternary alloys in the earth's inner core: An ab initio study University of Mohammed V, Morocco</p>	<p>Haddani Fatima Biomechanics of skull bone- A computational approach ENSEM, University Hassan II, Casablanca Morocco</p>
16:45 - 17:15	<b>Coffee break</b>		
17:15 - 17:30	<p>Elbarmaki Jamal Harvesting energy of vibrational using piezoelectric material PZT / Cu ENSAJ, Chouaib Doukkali University, El Jadida</p>	<p>Takassa Rabi Electronic and optical properties of C and BN nanotubes using PBE, TB-mBJ, YS-PBE0 and HF methods Faculty of Sciences Semlalia, Cady Ayad University, Morocco</p>	<p>El Idrissi Hamza Numerical Investigation of the Damage Progressive of Different Open-Hole Composite Laminates Using Puck-CSE Approach Faculty of Sciences and Techniques, Sidi Mohammed Ben Abdellah University</p>

17:30 - 17:45	Hajjaoui Hind Metal phosphate/polyaniline nanocomposite for the adsorption of eriochrome black T dye from aqueous media: Isotherm and kinetic studies. Sultan Moulay Slimane University of Beni Mellal	Abdelhadi Belouad Electron flow in monolayer Molybdenum disulfide quantum dot with magnetic flux Faculty of Sciences, Chouaib Doukkali University, Morocco	Afras Abderrachid Stiffness of the coupling connection and bearing support effects on the dynamic response of beam under moving load School of Applied Sciences Al Hoceima, University Abdelmalek Essaadi, Morocco
17:45 - 18:00	Iraoui Karima Smart cities and air quality Morocco	Lehleh Yousra Evaluation of the mechanical properties of unfired clay bricks with organic pretreated wheat straw. National School of Arts and Crafts, Moulay Ismail University, Morocco	Errifaiy Meriem Use of the corrected plane wave model for the determination of the reflection coefficient during the interaction wave-plate-current Faculty of Sciences Ben M'sik, University Hassan II, Casablanca
18:00 - 18:15	Chouaybi Ilyas Highly efficient removal of Alizarin Yellow R dye from aqueous solution using a synthesized hydrocalumite (CaAl-LDH-NO <sub>3</sub> ) Faculty of Sciences, Chouaib Doukkali University	Mourabit M'barka Experimental study of the thermal properties of a new building material: simulation of heat transfer and evaluation of energy needs. Faculty of Sciences of Ben M'Sik, Hassan 2 University, Morocco	Esskely Mounia Study of the seismic vulnerability of reinforced concrete building with plane and vertical irregularity using the nonlinear static method ENSEM, University Hassan II, Casablanca Morocco
18:15 - 18:30	Mourad Rkhis Computational insights into the hydrogen storage characteristics of the perovskite hydride ZrNiH <sub>3</sub> : Strain engineering effects ENSAJ, Chouaib Doukkali University, El Jadida	Ouafik Abdelouahed Experimental Tests and Statistical Analysis to Predict the Lifetime of Aluminium Electrical Wires Used in Overhead Lines Faculty of Science, Hassan II University, Morocco	Naboulsi Nassima Mechanical behavior of the dielectric parts of a high voltage underground electrical cable Faculty of Sciences, Chouaib Doukkali University
18:30 - 19:30	<b>Poster Session I</b>		

March 16th, 2022			
08:00 - 09:00	<b>Registration</b>		
09:00 - 09:30	<b>Plenary 3 : Prof. Mousa Marzband</b> <b>Smart Micro Grid with high penetration of PV Generation and Electric Vehicles</b> (Northumbria University, United Kingdom & King Abdulaziz University, Saudi Arabia)		
09:30 - 09:45	Ahmed Md Tofael Modelling and Parameter Analysis of Hybrid PVT Panel University of Évora, Department of Mechatronics, Evora, Portugal	Essaket Meryem Fire retardant Coating complex based on wool waste for textile Higher School of textile and clothing industries, University Hassan 2, Morocco	Boudaia El Hassan Point Interpolation Method Analysis of Stress Concentration ENSEM, University Hassan II, Casablanca
09:45 - 10:00	Madhiarasan M Statistical Analysis of Novel Feed Forward Neural Networks Performance on Global Solar Irradiance Forecasting Indian Institute of Technology Roorkee, Haridwar Highway, Roorkee, Uttarakhand (India)	Chikri Rachid High-quality activated carbon prepared from sawdust for dyes removal from aqueous solutions: Kinetic and isotherm studies Faculty of Science Semlalia, Cadi Ayyad University, Morocco	Cherkaoui Ikram Double population Lattice Boltzmann approach of magnetohydrodynamic blood flow in stenotic artery International University of Rabat (UIR) Morocco
10:00 - 10:30	<b>Coffee break</b>		
10:30 – 10:45	Assaid El Mahdi Investigation of simultaneous effects of solar irradiance and temperature on photovoltaic module model-parameters to predict peak power and efficiency under non-standard conditions Faculty of Sciences, Chouaib Doukkali University	Abderrahim Boutahar Enhanced magnetocaloric effects of MnFe <sub>0.95-x</sub> CoxP <sub>0.5</sub> Si <sub>0.5</sub> compounds National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco	Tesnim Kraiem Mathematical modeling of bone remodeling disorders: breast cancer effect University of Tunis El Manar – Tunisia
10:45 – 11:00	El Bouji Soufiane Numerical assessment of the energy potential of waves along the Atlantic coast of Morocco ESTC, Hassan II University of Casablanca	Bouchehema Abdeltif Impedance spectroscopy analysis of Fe <sub>2</sub> O <sub>3</sub> doped Kaolin Poly-disciplinary Faculty, Sultan Moulay Slimane University, Beni-Mellal, Morocco	Ben Hariz Nada Evaluation of a complete characterization of Polylactic Acid used in additive manufacturing University of Tunis El Manar National Engineering School of Tunis

11:00 – 11:15	Tari El Mostafa Amplitude of light scattering by horizontally oriented prismatic particles in the Wentzel-Kramers-Brillouin approximation FS, Chouaib Doukkali University	El Kacimi Younes Hydrochloric acids pickling as surface preparation of steels in galvanizing process: Stress corrosion cracking, Factors cause and Prevention methods review Faculty of Science, Ibn Tofail University,	Mostafa Zaydan FEM Simulation of Mixed Convection within a Lid-Driven Cavity Filled with Alumina-Water Nanofluid in the Presence of an Inner Rotating Cylinder Faculté des Sciences Ain Chock, University Hassan II, Casablanca
11:15 – 11:30	Moulaoui Lhouceine Numerical simulation of FAPbI <sub>3</sub> perovskite based solar cells with graphene oxide as hole transport layer using SCAPS-1D Faculty of Polydisciplinary, Sultan Moulay Slimane University, Beni Mellal Morocco	Matrouf Mustapha hydroxychloroquine Electrocatalytic oxidation on natural phosphate: Analytical application in human blood and commercial tablets Faculty Polydisciplinary of Khoutibga, University Sultan Moulay Slimane, Morocco	Lahlali Abdelkader Shape optimization of the bulb of the sea-cleaning ship ENSEM, University Hassan II, Casablanca Morocco
11:30 – 11:45	Hafsa Ezahraoui Physico-chemical characterization of liquid discharges from a sausage industry before and after filtration through a porous matrix of sand, clay, ash and slag. FS, Chouaib Doukkali University	Chakar Khadija Cooling system using nanofluids Faculty of Sciences, Chouaib Doukkali University, Morocco	Dadah Omar Dynamic analysis of structures undergoing parametric stiffening FST Béni Mellal, Université Sultan Moulay Slimane
11:45 – 12:00	Alla Mohamed Simulation and Analysis of MASnBr <sub>3</sub> based perovskite solar cell Morocco	Mohamed Essaleh Impedance spectroscopy analysis of pure bentonite FST Marrakech, Morocco	El Haloui Yassine Towards Introducing a Numerical Method for Predicting the Lifetime of Asphalt Concrete Chouaib Doukkali University, Ecole Nationale des Sciences Appliquées d'El Jadida
12:00 – 12:15	Sellami Assia Experimental and numerical investigation on the daily electrical performance of a photovoltaic panel by using the phase change material effect as a passive cooling ENSAJ, Chouaib Doukkali University, El Jadida	Derraz Meryiem Effect of calcination temperature on the physical properties of piezoelectric ceramic synthesized by solid-state method Faculty of Sciences, Chouaib Doukkali University, Morocco	Zahra Trad FEA of the osteoarthritis effect on the contact pressure variation in the human knee joint Ecole Nationale d'Ingénieurs de Tunis



12:15 – 12:30	Souktani Mohamed Amine Realization of a prototype of a tidal turbine for the production of electricity Hassan II University, FSAC ( Morocco)	Ezairi Sara Effect of cerium doping studies in the UV-LED/TiO <sub>2</sub> device Faculty of Science Ain Chock, Hassan 2 University, Morocco	Najat Zekriti Validation of finite-element models using digital image correlation data: filter noise using Gaussian and Median filters Faculty of Sciences, Chouaib Doukkali University
12:30 – 12:45	Ben-Ayyad Salima Optimisation de la production d'hydrogène par électrolyse de l'eau ENSEM Casablanca ( Morocco)	Zakaria Sana Effect of copper concentration on the structural, morphological, Optical, and electrical properties of spin-coated CZTS thin films. Faculty of Science and Technology, University of Cadi Ayyad, Morocco	Hamza Khatib Effect of alternated and multiaxial stress state on the evolution of welding residual stresses on a materiel presenting a nonlinear and combined hardening behavior ENSAM, Hassan II University of Casablanca, Morocco
12:45 – 13:00	Bendaoud Rachid A simple and fast extracting method for modeling the single diode model physical parameters of PV modules depending on their operating temperature Faculty of Sciences, Chouaib Doukkali University	Aynaou Aziz Effect of potential on the nucleation and growth mechanism of polyaniline electrodeposited on ITO substrate École Normale Supérieure, Hassan 2 University, Morocco	Gugouch Fatima The impact of thermal aging over time on the CPVC behaviour ENSEM, University Hassan II, Casablanca Morocco
13:00 - 15:00	<b>Lunch</b>		
15:00 - 15:15	Zohal Bouchaib Using Lambert's W-function to analytically solve the characteristic current-voltage equations of an electronic circuit including a four-diode bridge with two current saturation values. Faculty of Sciences, Chouaib Doukkali University	El Aakili Abdellatif Dynamic analysis of orthotropic composite materials of other layup Morocco	Baayyad Sarah Numerical simulation of uniaxial tensile test and crack propagation of 3D printed Acrylonitrile butadiene styrene (ABS) Moulay Ismail University, Morocco
15:15 - 15:30	Aalloul Radouane Electrical and Thermal Modelling of solar cells Casablanca Morocco	Soufi Amal Catalytic wet peroxide oxidation of tartrazine dye by magnetic MgFe <sub>2</sub> O <sub>4</sub> nanoparticles Faculty Polydisciplinary Khouribga, Sultan Moulay Slimane University, Morocco	Laasri Imane Contribution to the study of an energy recuperator by Timoshenko beams Faculty of Sciences Ben M'sik, University Hassan II, Casablanca

15:30 - 15:45	Loukid Abdelhak Descriptive and analytical studies of the domes and floors of some religious buildings in marrakech. Cadi Ayyad, Faculté des sciences Semlalia ( Morocco)	Lucrece Barbara Penpen Komgue Characterization and Modeling of Acoustic Properties of Polyurethane (PU) and Polyvinyl Chloride (PVC) Polymers for Human Ear Protection National School of Applied Sciences EL Jadida, Chouaib Doukkali University,	Hachimi Taoufik Investigation of the fracture behavior of the 3D Printed polymers using XFEM Faculty of Sciences, Chouaib Doukkali University
15:45 - 16:00	Belmahdi Brahim Analysis of Different Combinations of Meteorological Parameters in Forecasting the Daily Global Solar Radiation Using Neural Network Faculty of Science Abdelmalek Essaadi Tetouan ( Morocco)	Antar Intissar Influence of Infill Pattern and Raster Angle upon Mechanical Behaviour of Topologically Optimized Part Manufactured Virtually in Fused Deposition Modeling National Higher School of Electricity and Mechanics, Hassan II University, Morocco	El Handari Othman Evaluation of air permeability and moisture management properties of jacquards and basic knitted fabrics ENSEM, University Hassan II, Casablanca Morocco
16:00 - 16:15	Ait Hmazi Fouad Modeling the moisture content evolution of spherical durum wheat grains using artificial neural networks (ANNs) Faculty of Sciences, Chouaib Doukkali University	Sadek Otmane Influence of spin-coating parameters on the thickness and quality of thin layers (examples TiO <sub>2</sub> / ITO) National School of Applied Sciences EL Jadida, Chouaib Doukkali University,	Amimi Meryem Interaction of a non-linear wave with submerged structures University Hassan II, Casablanca Morocco
16:15 - 16:30	Maskrout Mohamed Amine An Empirical Case Study Of Energy-Efficiency Aspects Priority and Performance for green port operations : Tangier Med Port Hassan First University of Settat, ENSA	El Kihal Hicham Investigation of structural and optoelectronic properties of perovskites structure based on transition metal, for energy haversting FST, Hassan 2 University	Chouha El Houssine Numerical study of the effect of the brace inclination on the stress concentration factor for three different welded tubular Y-joints subjected to deflected bending load ENSEM, University Hassan II, Casablanca
16:30 - 16:45	Mrhar Oumaima Towards a hybrid calculation process for the Photovoltaic Panels performance evaluation. Case study: MOROCCO ENSAJ, Chouaib Doukkali University	Elouafi Assaad Large energy product iron oxide for permanent magnets application Faculty of Sciences Ain Chock, Hassan2 University, Morocco	Khtibari Abderrahim study of mechanical behavior of CPVC material Submitted to Static Tests under the Effect of Temperature Faculty of Sciences Ben M'sik, university Hassan II, Casablanca
16:45 - 17:00	Elfatouaki Fatima Structural analysis and band gap engineering of 2D perovskite Cs <sub>2</sub> XAg(I <sub>1-x</sub> Br <sub>x</sub> ) <sub>6</sub> for solar cell applications :DFT method FS Semlalia, Cadi Ayyad University	Nissabouri Salah Interaction of the a <sub>0</sub> and s <sub>0</sub> lamb waves with symmetric notches in aluminum plate Higher Normal School of Technical Education, Hassan 2 University, Morocco	Harrati Fatima Ezzahra Numerical and experimental study of the tensile behaviour of Polypropylene polymers in hydrochloric acid transport pipes under the effect of thickness and strain rate variation ENSEM, University Hassan II, Casablanca



17:00 - 17:30	<b>Coffee break</b>		
17:30 - 17:45	<p style="text-align: center;">Ben Alla Said</p> <p style="text-align: center;">Capacity prediction for Lithium-ion Batteries using different neural networks Methods</p> <p style="text-align: center;">Hassan First University of Settat, Faculty of Science and Technology ( Morocco)</p>	<p style="text-align: center;">Zaim Soumia</p> <p style="text-align: center;">Ionic strength and dc-conductivity as a tool to investigate the interaction between two biopolymers in bulk solution.</p> <p style="text-align: center;">Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p style="text-align: center;">Maimouni Hanaa</p> <p style="text-align: center;">Suspension removal evaluation of a bowstring bridge</p> <p style="text-align: center;">Faculty of Sciences Ben M'sik, University Hassan II, Casablanca</p>
17:45 - 18:00	<p style="text-align: center;">Bouchmiaa Fatima Zehra</p> <p style="text-align: center;">Evaluation of the effectiveness of Crataegus oxyacantha as an ecological carbon steel corrosion inhibitor.</p> <p style="text-align: center;">Faculty of Science, Chouaib Doukkali University</p>	<p style="text-align: center;">Charif-Alaoui Youssef</p> <p style="text-align: center;">Magnetic properties and large Magneto-caloric effect in the Perovskite Mn<sub>3</sub>GeC compound: Ab initio and Monte Carlo calculations</p> <p style="text-align: center;">Mohamed 5 University, Morocco</p>	<p style="text-align: center;">Antar Intissar</p> <p style="text-align: center;">Influence of Infill Pattern and Raster Angle upon Mechanical Behaviour of Topologically Optimized Part Manufactured Virtually in Fused Deposition Modeling</p> <p style="text-align: center;">ENSEM, University Hassan II, Casablanca</p>
18:00 - 18:15	<p style="text-align: center;">Belghiti Hamid</p> <p style="text-align: center;">Adaptive PID Controller with Fuzzy logic MPPT Algorithm for Photovoltaic System</p> <p style="text-align: center;">Chouaib Doukkali University ( Morocco)</p>	<p style="text-align: center;">Zouhair Saida</p> <p style="text-align: center;">Mean field approximation study of magnetic behaviors in a ferromagnetic mixed spin Blume Capel nanotube with hexagonal core-shell structure</p> <p style="text-align: center;">Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p style="text-align: center;">Bassir Youssef</p> <p style="text-align: center;">Etude comparative de la durée de vie d'une âme centrale et d'un toron hélicoïdal constituant un même câble</p> <p style="text-align: center;">Faculty of Sciences Ben M'sik, University Hassan II, Casablanca</p>
18:15 - 18:30	<p style="text-align: center;">Khallok Hamza</p> <p style="text-align: center;">Titanium-Hydroxyapatite foam: A promising photocatalyst for organic molecules removal from contaminated water</p> <p style="text-align: center;">Faculty of Sciences, Chouaib Doukkali University</p>	<p style="text-align: center;">Boudaia El Hassan</p> <p style="text-align: center;">Meshless Formulation to Solve Hyperelastic Problem</p> <p style="text-align: center;">Faculty of Science and Technology, Errachidia Morocco</p>	<p style="text-align: center;">Zitouni Ismaïne</p> <p style="text-align: center;">Modeling the propagation of ultrasonic guided waves in a composite plate by the spectral method</p> <p style="text-align: center;">ENSEM, University Hassan II, Casablanca</p>
18:30 - 19:30	<b>Poster Session II</b>		

**March 17th, 2022**

09:00 - 09:15	<p align="center">Ifkirne Abderrahmane</p> <p>Low-cost and high-performance ceramic membrane from Fly ash and Sugar scum: Characterization and Optimization Using Experimental Design Faculty of Science Semlalia, Cadi Ayyad University, Marrakech</p>	<p align="center">Khnifira Malika</p> <p>A combined molecular dynamic simulation, DFT calculations, and experimental study of the Eriochrome Black T dye adsorption onto chitosan in aqueous solutions Faculty Polydisciplinary of Khoutibga, University Sultan Moulay Slimane,</p>	<p align="center">Hamza Bagar</p> <p>Non-Ficcan drying of deformable elastic spherical grains Faculty of Sciences, Chouaib Doukkali University</p>	<p align="center">Riham Farhani</p> <p>Optimal Planning of Electric Vehicle Charging Stations Including The Impact of Traffic Conditions on Energy Consumption ENSAJ, Chouaib Doukkali University, El Jadida</p>
09:15 - 09:30	<p align="center">EL HAIMER Youness</p> <p>Treatment of wastewater from olive mill by cryoconcentration to obtain phenolic compounds Faculty of Sciences, Chouaib Doukkali University</p>	<p align="center">Mohamed Eddekkar</p> <p>Ab-initio study of the structure, optic and electronic proprieties of <math>Cu_2ZnGeX_4</math> (X=S, Se and Te). Faculty of Sciences, University Ibn Zohr, Morocco</p>	<p align="center">Benjeloun Mohamed</p> <p>Effect of rubber aggregates content from used tires on the shear strength of dune sand. Cadi Ayyad University , Marrakesh</p>	<p align="center">Mosalam Heba</p> <p>Experimental Assessment of the Efficiency of Hybrid Photovoltaic-Thermal Systems in Buildings at Desert Region Heliopolis University, Cairo Egypt</p>
09:30 - 09:45	<p align="center">Mesbahi Oumaima</p> <p>Optimization of photovoltaic parameters identification process University of Évora, Evora, Portugal</p>	<p align="center">Salama Mohammed</p> <p>Magnetic Properties and Hysteresis Behaviour Study of a Classical and Quantum Spin-3/2 Ferromagnetic System in a Graphene Monolayer FS, Chouaib Doukkali University</p>	<p align="center">Riyad Yahya</p> <p>Cyclic loading on concrete beam strengthened by two type of reinforcement by CFRP Chouaib Doukkali University, Ecole Nationale des Sciences Appliquées d'El Jadida</p>	<p align="center">Abouais Ali</p> <p>Study of the structural, electronic and optical properties of ZnTe bulk crystals using GGA / DFT+U method National School of Applied Sciences, Chouaib Doukkali University, Morocco</p>
09:45 - 10:00	<p align="center">Eddahbi Halim</p> <p>Comparative Study of Five MPPT Algorithms for a Photovoltaic System ENSEM, Hassan II University, Casablanca</p>	<p align="center">Adil BALHAMRI</p> <p>Microfabrication Methods and Characterization of Black Silicon for Solar Cells Applications ENSA, Hassan 1 University, Morocco</p>	<p align="center">El Mouden Zahra</p> <p>A comparison between two microfluidic micromixers Faculty of Sciences Ben M'sik, Hassan II University of Casablanca</p>	<p align="center">Boghdady Tarek</p> <p>Optimal DG allocation based on pay-back period by a Modified Mutation Operator for Covid-19 Optimization Faculty of Engineering, Cairo University ( Egypt)</p>
10:00 - 10:30	<b>Coffee break</b>			
10:30 - 10:45	<p align="center">Rabyi Tarik</p> <p>Particle swarm optimization for switched reluctance generator control ENSAM, Moulay Ismail University, Meknes Morocco</p>	<p align="center">Omar Farkad</p> <p>Properties of the structure and electronics of AB and AA stacking bilayer graphene intercalated by Sr atom Faculty of Sciences Semlalia, Cady Ayyad University, Morocco</p>	<p align="center">Lazrek Mohamed</p> <p>Propagation properties of cosine-hyperbolic-Gaussian beams in a chiral medium Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p align="center">Mrigua Khalid</p> <p>Numerical assessment of a new modified Savonius wind turbines clustered farms Faculty of Sciences Ibn Tofail University; Morocco</p>

10:45 – 11:00	<p>Amal Nefraoui Prediction of lithium-ion battery state of charge using artificial neural network algorithms. LabSIPE, ENSAJ, Chouaib Doukkali University, El Jadida</p>	<p>Ouldhini Youssef Mixed-alkali Effect on the Structural Properties in Phospho-Silicate Bioactive Glasses: A Molecular Dynamics Simulations Study Faculty Polydisciplinary of Khoutibga, University Sultan Moulay Slimane</p>	<p>Soukaina Ameur Investigation of the Mechanism, Chemo and Regiospecificity using the [4+2] Cycloaddition Reaction of Vinyl Acetate and 3-aryolpyrrolo[1,2-c][1,4]benzoxazine-1,2,4-trione: MEDT Study FS, Chouaib Doukkali University</p>	<p>Nezami Savojbolaghi Mina Effect of slow-time changing internal parameters in Photovoltaic panel behavior Institute of Earth Science, Évora, Portugal</p>
11:00 – 11:15	<p>Amagour Mohamed El Habib Improvement of the energy efficiency of a solar domestic hot water system by integrating a novel latent heat storage unit ENSMR , Rabat</p>	<p>Bourzgui Omaima CNTs a new technology in water desalination process Renewable energies and dynamic systems laboratory (FS Ain Chock, Hassan 2 university of Casablanca)</p>	<p>Elkori Rabiaa Static damage analysis of high density polyethylene Higher Institute of Maritimes Studies, Hassan 2 University, Morocco</p>	<p>Boudara Mariyem Synthesis and characterization of high surface area mesoporous zirconia catalysts. Activity toward isopropanol decomposition FS, Chouaib Doukkali University</p>
11:15 – 11:30	<p>Rashel Masud Rana Lifelong Learning based Machine Learning model to Predict and Identify Photovoltaics Faults University of Évora, Evora, Portugal</p>	<p>El Khaldi Loukmane Numerical Efficiency Analysis on the Active Free Vibration Control of a FGM Timoshenko Piezoelectric Beam under Thermal Conditions National School of Applied Sciences, abdelmalek essaadi University, Morocco</p>	<p>Abderrahmane Elmelouky Experimental and Theoretical Study of the Adsorption Behavior of Nitrate ions by (Zn<sup>3+</sup>-Al-Cl)-Layered Double Hydroxide by SID and DFT FS, Chouaib Doukkali University</p>	<p>Deraoui Abdessitir Spectral filtering of visible light by the natural species and microfabrication of matching bioinspired material National School of Arts and Crafts, Moulay Ismail University, Morocco</p>
11:30 – 11:45	<p>Rkia Zari Particle size and physico-chemical characterization of the sandy beach of El Jadida (Moroccan Atlantic coast): Application in civil engineering Cadi Ayyad University Morocco</p>	<p>Elkanzaoui Mustapha New composite material, white ceramic waste, Elaboration and study of mechanical behavior Faculty of Sciences, Mohamed 5 University, Morocco</p>	<p>Ben Ayad Anass Simulation of the microinjection mold filling-phase of a semi-crystalline polymer Faculty of Sciences and Technologies, Sidi Mohamed Ben Abdellah University, Morocco</p>	<p>Eddahbi Halim Study and optimization of a wind-photovoltaic hybrid system ENSEM, Hassan II University, Casablanca</p>
11:45 – 12:00	<p>Ajabli Houda Development and characterization of composite materials incorporating vegetal for the improvement of thermal comfort in the building envelope ENSAJ, Chouaib Doukkali University, El Jadida</p>	<p>Ennawaoui Chouaib Modeling and Simulation of the Piezoelectric Proprieties in Cellular Polymers for Vibration Energy Harvesting National School of Applied Sciences, Chouaib Doukkali University, Morocco</p>	<p>Bouabdalli El Mahdi Structural, optical, photoluminescence and magnetic properties of europium doped silicophosphate glasses National School of Applied Sciences, Chouaib Doukkali University, Morocco</p>	<p>Nabil Hassan Effect of a Turbulent Jet Engine Exhaust on Some Laser Beams Faculty of Sciences, Chouaib Doukkali University, Morocco</p>

12:00 – 12:15	<p>Ennissoui Jaouad Performance studying of an indirect solar dryer using CFD simulation Faculty of Sciences Meknes, Moulay Ismail University ( Morocco)</p>	<p>Lablali Mohammed Molecular dynamics study of the growth of Cu thin film on stepped Si (100) substrates Faculty of Science Ben M'Sick, University Hassan 2 University</p>	<p>Soussi Lahcen Study of the effect of Cu doping on the structural and opto-electrical properties of SnS thin films prepared by spray pyrolysis technique. FS, Ibn Tofail University</p>	<p>Rabyi Tarik Power flow control of SRG, PV and battery connected to microgrid ENSAM, Moulay Ismail University ,Meknes Morocco</p>
12:15 – 12:30	<p>Bouzaid Sohaib Non-linear Lithium-ion SOC estimation based on FNN and driving cycles ENSAJ, Chouaib Doukkali University, El Jadida</p>	<p>Hasnae Saadi Monte Carlo study of the magnetic properties of spin-3/2 Blume-Capel multilayer system Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>Choukri Oumaima Structural and electronic properties of N-doping ultra-small diameter (2,2) SWCNT by using DFT Faculty of Sciences Semlalia, Cadi Ayyad University, Morocco</p>	<p>Moncif Nawal Preparation of high porous <math>\text{P}^2</math>-tricalcium phosphate granules Incorporated in apatite Cement Faculty of Sciences, Chouaib Doukkali University, Morocco</p>
12:30 – 12:45	<p>El Abdelaoui Fatima Zohra Optimization techniques for minimal energy consumption of machining process- Review of recent advances FST, Sidi Mohammed Ben Abdellah University, Fez</p>	<p>Dialmy Atar Optimization of granular mix for rammed earth via compressive packing model Hassania School of Public Works, Hassan 2 University, Morocco</p>	<p>Assekouri Abdelmonim Structural and optical proprieties of new Nanocomposites (Polyvinyl alcohol / mixed oxide from LDH: <math>\text{Mg}_2\text{-Al}_{0.5}\text{-Fe}_{0.5}(\text{CO}_3)</math>) Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>A. Matine Density functional and Molecular-dynamic simulations of azelaic acid derivatives as corrosion inhibitive Faculty of Science, Chouaib Doukkali University</p>
12:45 – 13:00	<p>Zraibi Brahim Accurate forecasting of the state-of-health and the reliability of Lithium-ion batteries based on the Gated Recurrent Units method. Hassan First University of Settat</p>	<p>El Abdelaoui Fatima Zohra Optimization techniques for minimal energy consumption of machining process- Review of recent advances Faculty of Sciences and technologies, Sidi Mohammed Ben Abdellah University,</p>	<p>Mouhrach Tawfik Study of the Magnetic Proprieties and Hysteresis Behaviors of a Mixed Spin System (3/2, 3) in a Graphene Layer Faculty Polydisciplinary of Khouribga, Sultan Moulay Slimane University, Morocco</p>	<p>El Kihel Karima Phase diagrams and hysteresis behaviors of ferrimagnetic mixed spin-3/2 and spin-2 hexagonal nanotube with core-shell structure Faculty of Sciences, Chouaib Doukkali University, Morocco</p>
13:00 - 15:00	<b>Lunch</b>			
15:00 - 15:15	<p>Anass Elachhab Li-ion State of charge estimation based on neural network models Sciences for Energy Laboratory LabSIPE, ENSAJ, Chouaib Doukkali University, El Jadida</p>	<p>Sadeq Hajar Numerical Modelling of the Splitting Test: Influence of Geometry and Specimen Size on the Tensile Strength of Concrete Faculty of Science Oujda, Mohammed 1 University, Morocco</p>	<p>Abouelhaoul Elalami Synthesis, Structural Characterisation and Biological Activities of New Copper (II) Complex of 2-(5-Methyl-1H-Pyrazol-3-yl)-N-[2-(5-Methyl-1H-Pyrazol-3-yl) Acetyl Boranyl]Acetamide. FS, Chouaib Doukkali University</p>	<p>Hafsa Ezahraoui Contribution to the treatment of effluents from the agri-food industries by percolation filtration Faculty of Sciences, Chouaib Doukkali University</p>

15:15 - 15:30	<p>Archi Marouane Performance analysis of Perovskite solar cell based-ZnO as an electron transparent layer Faculty Polydisciplinary, Beni-Mellal Sultan Moulay Slimane University</p>	<p>Raffak Tarik New design of a horizontal axis wind turbine blade based on a hybrid composite with fLAX fibers National School of Applied Sciences, Hassan 1 University, Morocco.</p>	<p>Ghafiki Kaoutar The application of feedback in construction National High School for the Arts and Professions, Hassan II University, Morocco</p>	<p>Nabil Hassan Effect of a Turbulent Jet Engine Exhaust on Some Laser Beams Faculty of Sciences, Chouaib Doukkali University, Morocco</p>
15:30 - 15:45	<p>El Abdelaoui Fatima Zohra Optimization techniques for minimal energy consumption of machining process- Review of recent advances FST, Sidi Mohammed Ben Abdellah University, Fez</p>	<p>Jalal El Mostafa Monte Carlo study on the compensation behavior and hysteresis properties of a ferrimagnetic square Ising nanowire FS, Chouaib Doukkali University</p>	<p>Lafhal Amer Phase Diagrams of the Mixed Spin-1 and Spin-2 Blume-Emery-Griffiths Model with Attractive Biquadratic Coupling ESEF, Chouaib Doukkali University</p>	<p>Rkia Zari Removal of heavy metals and organic pollution reduction of tannery wastewater by filtration treatment on industrial solid waste and naturel clay Cadi Ayyad University Morocco</p>
15:45 - 16:00	<p>Souagh Adil Investigation on the Thermal Behavior of Hydroxyl Ammonium Nitrate (HAN) Decomposition as Energetic Compound FS, Chouaib Doukkali University</p>	<p>Aaboud Bouchra Porosity influence on mechanical behaviour of composite materials Normandy University, France</p>	<p>Chib Salma The influence of the turbulent atmosphere on the properties of Flattened laser beam Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>Ahmidi Abdelali Description of circular beams in generalized Lorenz-Mie theory Faculty of Sciences, Chouaib Doukkali University, Morocco</p>
16:00 - 16:15	<p>Yaalou Mohamed Comparison of a transformed Gaussian beam and a hollow Gaussian beam by an Airy transform optical system Faculty of Sciences, Chouaib Doukkali University</p>	<p>Archi Marouane Performance analysis of Perovskite solar cell based-ZnO as an electron transparent layer Poly-disciplinary Faculty, Sultan Moulay Slimane University, Beni-Mellal, Morocco</p>	<p>Aharrouch Rachid The Spin-5/2 Blume Capel Model by Position Space Renormaliztion Group Theory Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>En.nami Nabil Synthesis and characterization of nano-crystalline pure tetragonal sulfated Zirconia by sol-gel method and activity toward isopropanol dehydration FS, Chouaib Doukkali University</p>
16:15 - 16:30	<p>Hayani Mouhcine Etude phytochimique et évaluation de l'activité antibactérienne de satureja nepeta Faculté de sciences, Université Moulay Ismail</p>	<p>Redouane Mghaiouini New green process to increase the solubility of soil fertilizer based on Potassium Nitrate (KNO<sub>3</sub>) Faculty of Sciences, Chouaib Doukkali University</p>	<p>Benaissa Nouhaila Comparison of structural, morphological and optical properties of copper oxide thin films, elaborated by spin-coating and spray pyrolysis techniques. FS, Chouaib Doukkali University</p>	<p>Abida Fatima Preparation and physical properties of an apatitic bioceramic containing porous <math>\beta</math>-tricalcium phosphate granules Faculty of Sciences, Chouaib Doukkali University, Morocco</p>
16:30 - 16:45	<p>Sebbahi Seddiq Modeling and simulation of a multi-technology system for the production, storage and use of hydrogen as an energy carrier ENSAJ, Chouaib Doukkali University, El Jadida</p>	<p>Benaddi Rabia Removal of Phenolic Compounds from oil mill waste water by adsorption on hydroxyapatite-Sodium alginate composite Polydisciplinary Faculty of Beni-Mellal, Sultan Moulay Slimane University</p>	<p>Mohamed Ilou Theoretical and electrochemical studies of corrosion inhibition of stainless steel 316L in HCl 1M medium by 6-Nitro-1,3-benzoxazole-2(3H)-thione FS, Chouaib Doukkali University</p>	<p>Boukontar Nezha Nanocomposites Morocco</p>



16:45 - 17:00	<p>Mohammed El Idrissi Theoretical study of photovoltaic performances of Ru, Rh and Ir half sandwich complexes containing N, N chelating ligands in Dye-Sensitized Solar Cells (DSSCs). Faculty Polydisciplinary, Beni-Mellal Sultan Moulay Slimane University</p>	<p>Redouane Lamsoudi Scattering Phase Functions of the Cylindrical Capsule with Ellipsoidal Ends in the WKB approximation. Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>El Aissaoui Abderrahim Thermodynamic Modeling and Numerical Investigation of Mass Transport of Ethyl Benzene into Clay/Polystyrene Nano-Composite Membranes FS Ben M'Sick, Hassan 2 University</p>	<p>DRISSI Mohamed Fluid-structure interaction with the spectral method, application to a cylindrical tube subjected to transverse flow Hassan First University of Settat, ENSA Berrechid</p>
17:00 - 17:30	<b>Coffee break</b>			
17:30 - 17:45	<p>Barhoumi Ali Comparative theoretical study of the reactivity of trivalent phosphorus derivatives R<sub>1</sub>R<sub>2</sub>POR towards polyhaloalkanes <math>\alpha</math>-Y-CCl<math>\alpha</math>-<math>\beta</math><sub>3</sub> Faculty of Science, Chouaib Doukkali University</p>	<p>El Garchani Fatima Ezzohra Study of the pitting corrosion of 7075 aluminium alloy National School of Arts and Crafts, Moulay Ismail University, Morocco</p>	<p>Rhalmi Othmane Elaboration and characterization of new nanocomposite materials Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>Mouad BENSADA Two-dimensional transient model for convection in GTAW melted pool: comparison simulation-experiment ENSAM-Meknes, Moulay Ismail University</p>
17:45 - 18:00	<p>Noureddine Abouricha Méthode Lattice Boltzmann pour l'Etude du Transfert Thermique dans un Local à l'Echelle ¼ Chauffé par le Bas selon deux modes de Chauffage LabSIPE, – Ecole Nationale des Sciences Appliquées, Université Chouaib Doukkali, El Jadida</p>	<p>Ouezgan Ahmed The influence of the number of segments of ACRTMFM process on the filling time for large manufactured composites parts High National School of Electricity and Mechanics, Hassan II University</p>	<p>A. RAHUI Three-point Bend Test to Determine the Mechanical Behavior of the welded sheet National Graduate School for Arts and Crafts, University Moulay Ismail</p>	<p>MANSOURI Mohamed Vibration Control of an Aeroacoustic Enclosure Using Piezoelectric Materials Hassan First University of Settat, ENSA Berrechid</p>
18:00 - 18:15	<p>Najih Ikrane Three-dimensional printing of piezoelectric sensors for electromechanical applications National School of Applied Sciences, Chouaib Doukkali University, Morocco</p>	<p>El Mechate Bouchaib Superposition of nondiffracting beams Faculty of Sciences, Chouaib Doukkali University, Morocco</p>	<p>Boubakri Asma Triethanolamine concentration effect on electrodeposited SnS thin films properties Faculty of Sciences and Technology, Cadi Ayad university, Morocco</p>	



## Poster Session I

<b>1</b>	<p>Bahsis Lahoucine                  2-Aminobenzothiazole-containing Copper(II) complex as Catalyst in Click Chemistry: An Experimental and Theoretical Study                  Laboratoire de Chimie de Coordination et d'Analytique (Département de Chimie, Faculté des Sciences d'El Jadida, Université Chouaib Doukkali, B.P.:20, El Jadida 24000 Morocco)</p>
<b>2</b>	<p>Sadek Otmane                  A mathematical model of synthesis of nanosized TiO<sub>2</sub> powder by sol-gel method.                  Laboratoire des Sciences de l'Ingénieur pour l'Energie, Ecole Nationale des Sciences Appliquées El Jadida, Université Chouaib Doukkali El Jadida, Maroc</p>
<b>3</b>	<p>Ouassif Hasna                  Aqueous phase elimination of a food coloring by adsorption on anionic clay. Study of the efficiency and recyclability of the adsorbent.                  Faculty of Sciences, Chouaib Doukkali University, Chemistry Department, Laboratory of Physico -Chemistry of Materials El Jadida (Morocco)</p>
<b>4</b>	<p>Sadik Rachid                  Calcined Layered Double Hydroxide for removal of tartrazine from aqueous solution: Equilibrium, Kinetic and mechanism study.                  Université Chouaib Doukkali El Jadida Morocco</p>
<b>5</b>	<p>Abouais Ali                  Crystal Growth by Vertical Bridgman Technique                  National School of Applied Sciences, Chouaib Doukkali University, El Jadida ( Morocco),</p>
<b>6</b>	<p>Laouid Amina                  Effect of annealing temperature on the optical and structural properties of DCM dye.                  Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University, Grudziadzka 5, 87-100 Torun, Poland ( Poland)</p>
<b>7</b>	<p>Azifa Aziz                  Effects of Composition and W/C Ratio on Physical and Mechanical Properties of Cement Containing Phosphogypsum or Gypsum                  Laboratory of Physical-Chemistry of Materials Chemistry Department, Faculty of Science, Chouaib Doukkali University, El Jadida ( Morocco),</p>
<b>8</b>	<p>Chaouay Jihane                  Elaboration of seaweed biochars for the removal of toxic ions from aqueous solution.                  University Chouaib Doukkali, Faculty of Sciences, Laboratory of Catalysis and Corrosion of Materials, PO Box 20, 24000 El Jadida, ( Morocco)</p>
<b>9</b>	<p>Mortadi Halima                  Electric and dielectric properties of the solid solution <math>\text{Li}_x\text{Cu}_{2-x}/2\text{P}_2\text{O}_7</math> using impedance spectroscopy.                  University Chouaib Doukkali, Chemistry Department, Laboratory of Materials' Physical, Chemicals, El Jadida, ( Morocco)</p>
<b>10</b>	<p>Bouabdalli El Mahdi                  First investigation of the local environment of europium in a strontium phosphate glass using Molecular Dynamics Simulations.                  Laboratory of Engineering Sciences for Energy (LabSIPE), Chouaib Doukkali University, National School of Applied Sciences of El Jadida, Morocco.</p>
<b>11</b>	<p>Laachir Abdelhakim                  First mixed-valence Cu II /Cu I coordination polymer based on 2,5-bis(pyridine-2-yl)-1,3,4-thiadiazole and thiocyanate: Synthesis, magnetic propriety and structural characterization                  Chouaib Doukkali University ( Morocco),</p>

12	Belkoufa Ikram Intrinsic piezoelectric response in perovskite alloys: $(1-x) \text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 - x\text{PbTiO}_3$ LabSIPE, Ecole Nationale des Sciences Appliquées, University Chouaib Doukkali d'El Jadida,
13	Mansouri Fadoua Molarity Dependent on CVD Misted ZnS Buffer Layer Performance Laboratory of Materials Physics and Subatomic, Faculty of Science, University Ibn Tofail, BP.133-14000 KÃ©nitra, Morocco
14	Elouahli Abdelaziz Neutralization method for tricalcium phosphate production : Optimization using response surface methodology Team of Energy, Materials and Environment, Department of Chemistry, Faculty of Sciences, University Chouaib Doukkali, El Jadida, Morocco
15	Kraibaa Salaheddine Non Destructif Testing of Monolithic Solid Oxide Fuel Cells Using Infrared Thermography Faculty of Sciences, Chouaib Doukkali University (BP 20, El-Jadida, 24000 Morocco
16	Nasrellah Hamid NOVEL SYNTHESIS AND CHARACTERISATION OF CRYSTALLINE FLUORAPATITE FROM MOROCCAN PHOSPHOGYPSUM WASTE Ecole Supérieure de l'éducation est de la Formation, Université Chouaib Doukkali Morocco
17	Maria Ghliyem Numerical study of the semi-infinite mixed spin Ising ferromagnet Laboratory of High Energy Physics and Scientific Computing, faculté des sciences ain chock, Morocco
18	Al Qahoom Yahya Phase diagram and Magnetic properties of a ferrimagnetic mixed spins $(1/2, 1)$ Ising multilayer system Laboratoire Physique de la Matière Condensée, FSJ, UCD ,Morocco
19	Chouni Khadija Phosphate based material: Synthesis, characterization and investigation of its light absorption Faculty of Science â€”University Chouaib Doukkali, Chemistry Departement, Laboratory Physico - Chemistry of Materials, El Jadida Morocco
20	Elkanzaoui Mustapha Physicochemical characterization study fly ash from coal fired power plant Université Mohamed V Rabat, Faculté des Sciences, Rabat, Maroc ( Morocco)
21	Khallok Hamza Preparation of Biphasic Hydroxyapatite/ $\hat{\text{P}}^2$ -Tricalcium Phosphate foam Using the Replication Technique â€”Energy, Materials and environment teamâ€”, Department of Chemistry, Faculty of Sciences, University Chouaib Doukkali, El Jadida Morocco
22	Mohammed El Idrissi Pressiometric soundings applied to the recognition and the geotechnical study of the ground of foundation of an industrial building: case of the crushing center in Jorf Lasfar (EL jadida-Maroc) Team Remote Sensing and Geographic Information Systems Applied to Geosciences and the Environment. Morocco
23	Lagrini Hakima Process optimization of Chromium (VI) biosorption using the agar waste biomass: Kinetics and equilibrium Laboratory of Catalysis and Corrosion of Materials, Faculty of Sciences, University Chouaib Doukkali, PO Box 20, 24000 El Jadida, Morocco
24	Badrou Issam Anoar Spin -5/2 Blume Capel model by Monte Carlo simulation and mean-field approximation El Jadida, Morocco

25	Louafi Jihad Structural and optical properties of Li-doped $\text{Li}_x(\text{Mg}_{0.5}\text{Zn}_{0.5})_{1-x}\text{MnO}_3\text{-X}$ perovskite-type oxide LPMAT, Faculty of sciences Ain Chock, Hassan II University, Casablanca, Morocco
26	Hariti Nora Study of $\text{LiMn}_{1-x}\text{Fe}_x\text{PO}_4$ as cathode materials from Li-ion batteries applying density function theory ENSAJ
27	Agraine Hana Study of the Behavior of clayey soil Faculty of Sciences & Technology, University of Mohamed Khider, Biskra, Algeria
28	El Alami Mohammed Study of the mechanical behavior of Titan: application to a turbojet blade under static loads ENSAM- Moulay Ismail University, Meknes ( Morocco)
29	Bahou Younouss Study of the optical properties by the FDFD method, of a 2D photonic crystal based on GaAs. Univ Hassan 1, Laboratoire Rayonnement-Matière et Instrumentation (RMI), Fst Settati, KM 3 B.P. 577 route de Casablanca 26000, Maroc
30	Assila Abdelmajid Study of the structural, electronic and thermodynamic properties of magnesium hydride for hydrogen storage: ab-initio insights Laboratoire des Sciences de l'Ingénieur pour l'Energie, Ecole Nationale des Sciences Appliquées d'El Jadida
31	Rmili Ahmed Synthesis and characterization of Fe-doped CdS thin layers deposited via the sol gel method by spin coating for solar cells applications Morocco
32	Jdaa Rachid Synthesis and characterization of Metal (Al, Co, Fe, Ni, In) doped $\text{SnO}_2$ thin films prepared by sol-gel spin coating technique. Laboratory of Materials Physics & Subatomic, Ibn Tofail University Kenitra, Morocco.
33	Souhila Chabane The role of geosciences (chemical, geological and geotechnical study) and the impact of disruptive 4.0 technologies in the improvement of the marble industry Instrumentation and control laboratory at ICT, University of Evora 7000 Evora, Portugal
34	Assiya Atif The synthesis of novel oxadiazole compounds Bioorganic chemistry laboratory (faculty of science Chouaib doukkali El jadida Morocco)
35	Nadi Imane The use of Sargassum muticum extract based on alginate biopolymer as a new efficient green corrosion inhibitor for carbon steel in hydrochloric acid pickling environment Morocco
36	Takassa Rabi Theoretical investigation of the structural, electronic, and magnetic properties of $\text{LiGa}_2\text{Ir}$ Heusler type compound LaMEE, Department of Physics, Faculty of Sciences Semlalia, Cadi Ayyad University, Morocco

37	Abida Fatima Tricalcium phosphate powder: Preparation and physical properties Morocco
38	Abderazak Graich Use of Sargassum muticum algae as binder strengthening a raw earth mortar Condensed Matter Laboratory, University of Chouaib Doukkali, El Jadida, Morocco

## Poster Session II

39	Ikram Cherkaoui Effect of magnetic field on pulsatile blood flow in stenotic artery: Numerical study International University of Rabat (UIR) - Morocco
40	Safaa Assif 2D Modeling and Finite Element Calculation of the Response of the Tympanic Membrane of the Human Ear Equipped with a Personal Ear Protection (PEP) National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco
41	Mohamed El Hachmi A method for deriving an equimomental system of point-masses National School of Applied Sciences, Ibn Zohr University, Agadir, Morocco
42	Tesnim Kraiem Characterization of the femur mechanical properties under different mechanical solicitations: A finite element investigation University of Tunis El Manar
43	Mohammed El Alami Study of the mechanical behavior of Titan: application to a turbojet blade under static load ENSAM-Meknes, Moulay Ismail University, Morocco
44	Mohammed El Alami Effect of the water/cement ratio on mechanical and physical proprieties of concrete in sulfate environment ENSAM-Meknes, Moulay Ismail University, Morocco
45	Ghafiki kaoutar The application of feedback in construction University of Hassan II, National High School for the Arts and Professions, Casablanca, Morocco
46	Youssef Bounjourn On the validity of the damage simulation of CFRP carbon fiber reinforced polymer reinforcement ENSAM, Hassan II University of Casablanca, Morocco
47	Hamza Ikhtyari A study of the damage mechanism of the antigiratory cable National Higher School of Electricity and Mechanics, Hassan II University, Casablanca

48	Abderrazak Ennaji Damage Prediction of Acrylonitrile Butadiene Styrene (ABS) based on static tests coupled with different Temperatures Faculty of Sciences and Technology, Moulay Ismail University, Meknes, MOROCCO
49	Abdelhamid Kerkour El Miad Experimental study of damage mechanisms for a CPVC tube material Mohammed First University Oujda, Faculty of Science Oujda
50	Rich Anouar Intensified drying process of dairy solutions by coupling Cryo-concentration and Freeze-drying Faculty of Sciences, Chouaib Doukkali University
51	Fghire Rachid THE SALT MED MODEL: SENSITIVITY ANALYSIS TO SOIL HYDRODYNAMIC PARAMETERS Faculty of Sciences, Chouaib Doukkali University
52	Aissi Tarik Energy management in hybrid micro grid system using a combined MPPT-pitch angle control ENSAJ, Chouaib Doukkali University, El Jadida
53	Boukhadara Mariem Valorisation of a Moroccan bentonite clay for the dehydration of isopropanol Faculty of Sciences, Chouaib Doukkali University
54	Sebbahi Seddiq Development of a digital twin for simulation of water electrolysis systems for renewable hydrogen production ENSAJ, Chouaib Doukkali University, El Jadida
55	Elbarmaki Jamal Energy harvesting from the vibration of a piezoelectric ceramic film at low frequency ENSAJ, Chouaib Doukkali University, El Jadida
56	El Hamraoui Aya The feasibility of incorporating a phase change material into Moroccan red clay. Application to building materials. Cadi ayyad university
57	Hajar Rejdali Research of Parameters of PVDF Piezoelectric Energy Harvester for Ambient Vibration ENSAJ, Chouaib Doukkali University, El Jadida
58	Mourad Rkhis A promising high electrochemical capacity and fast hydrogen diffusion for NiMH batteries: A first-principles insight ENSAJ, Chouaib Doukkali University, El Jadida
59	Ziraoui Jihane Improved energy management by combining building-integrated photovoltaic generation and an underfloor heating system with phase change materials. Cadi ayyad university
60	Najah El Idrissi Samira Activation effect on the structural and textural properties of the commercial bentonite; activity in the isopropanol dehydration reaction. Faculty of Sciences, Chouaib Doukkali University

61	Ahliouati Mohamed Performance energy study on the effect of climatic conditions on a hybrid photovoltaic/thermal (PV/T) air collector. ENSAJ, Chouaib Doukkali University, El Jadida
62	Laazizi Abdellah Simulation of Photovoltaic Module with Buck Converter using MATLAB/SIMULINK ENSAJ, Chouaib Doukkali University, El Jadida
63	Khalid MNAOUAR Novel Process To Eliminate The CO <sub>2</sub> Gas ENSAJ, Chouaib Doukkali University, El Jadida
64	Chaali Younes Combustion Synthesis of Na <sub>0.67</sub> Ni <sub>0.25</sub> Co <sub>0.17</sub> Mn <sub>0.58</sub> O <sub>2</sub> Cathode Material for Sodium-Ion Batteries: Structural and Conductivity Studies Faculty of Sciences, Chouaib Doukkali University
65	Nabil El Ghyati New approach to investigate the electrical behavior of Al/pSi/ZnTPyP/Au heterojunction for hybrid solar cell applications using Electrical impedance spectroscopy (EIS) Faculty of Sciences, Chouaib Doukkali University
66	Chahid El Ghaouti Dielectric and electric properties as a tool to detecting heavy metal contamination in water and soil : Application to Cadmium salt solutions, Effect of concentration and pH Faculty of Sciences, Chouaib Doukkali University
67	Fangachi Najoua Energy recovery from a piezoelectric material as a function of vibration modes using the finite element method ENSAJ, Chouaib Doukkali University, El Jadida
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