

October 27, 2021			
08:00 - 08:30	<b>Registration</b>		
08:30 - 09:00			
09:00 - 09:30	<b>Ouverture</b>		
09:30 - 10:00	<b>Plenary 1 : Nunzi Jean-Michel</b> Advanced nanostructured perovskite, graphene and plasmonic photodetectors, sensors and energy harvesting devices Queen's University, Kingston, ON K7L 3N6 ( Canada)		
10:00 – 10:30	<b>Plenary 2 : Daniel FRUCHART</b> Hydrogen storage, of the main next challenges for abundant and clean energy disposals Institut Néel, CNRS, Université Grenoble Alpes, Grenoble, France		
<b>10:30 - 11:00</b>	<b>Coffee break</b>		
11:00 - 11:15	Anoua Rania Experimental and theoretical (DFT method) investigations of the natural Alizarin dye for DSSC National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco	Omar Farkad A comparative study of strontium intercalation of AB and AA-stacked bilayer graphene. Faculty of Sciences Semlalia Marrakech, Morocco	El Hmamsy Youssef Development of Vibration Energy Harvesting Circuit using Piezoelectric Materials National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco
11:15- 11:30	Faraji Mustapha Lattice Boltzmann Method calculations of natural convection heat transfer instabilities in a cavity heated by a heat source Faculty of Sciences Ain Chock university hassan 2 ( Morocco)	Mourak Abdellah Cured alkali-activated heated clay-cellulose composites: Microstructure, effect of glass addition and performances Faculty of Sciences Semlalia, University Cadi Ayyad, Marrakech, Morocco	Charqui Zouhair Coupled heat transfer by natural convection and surface radiation in a vertically partitioned cavity filled with water and air Cadi Ayyad University, Faculty of Sciences Semlalia, Marrakesh, Morocco

11:30 - 11:45	<p>Chahbi Meriem A new approach to investigate the ionic conductivity of NaCl and KCl salts aqueous solutions: A review Faculty of Sciences, Chouaib Doukkali University, El-Jadida (Morocco)</p>	<p>Hbab Abdellah DFT investigation of structural, electronic, electric and optical properties of ferroelectric phase lithium niobate Polydisciplinary Faculty, Ibn Zohr University, Ouarzazate (Morocco)</p>	<p>El Batal Khadija Design of Wearable antenna for Multi Band Application using shieldit super electro-textile material Faculty of Sciences Ben M'Sik Hassan II University, Morocco (Morocco)</p>
12:00 - 14:00	<b>Lunch</b>		
14:00 - 14:30	<p style="text-align: center;"><b>Plenary 3 : Abdelilah Benyoussef</b> Hydrogen Production and Storage from renewable energy: Modeling and Simulation Hassan II Academy of Sciences and Technology, Rabat, Morocco LaMCScI, Faculty of Sciences, Mohammed V University, Rabat, Morocco</p>		
14:30 – 15:00	<p style="text-align: center;"><b>Plenary 4 : Patrick HENDRICK</b> Energy (heat and electricity) storage, a complex problem with a combined solution Unité de recherche Aéro-Thermo-Mécanique (ATM) Ecole polytechnique de Bruxelles. Campus du Solbosch, Bruxelles, Belgique</p>		
15:00 - 15:20	<p><b>Keynote 1 :</b> Mousa Marzband Energy modelling, optimization techniques and case study Northumbria University, Electrical Power and Control Systems Research Group, Ellison Place, NE1 8ST Newcastle upon Tyne, United Kingdom Center of Research Excellence in Renewable Energy and Power Systems, King Abdulaziz University, Jeddah 21589 Saudi Arabia</p>	<p><b>Keynote 2 :</b> Mouhaydine Tlemcani Virtual Instrumentation for test and measurements ICT, Universidade de Evora, Portugal</p>	<p><b>Keynote 3 :</b> E.K. Hlil Photovoltaic and thermoelectric proprieties of nanomaterials improved by using ab initio calculations Institut Néel, CNRS, Université Grenoble Alpes, BP 166, 38042 Grenoble, France</p>

15:30 - 15:45	Adeli Khaoula Ammonia as Fuel Faculty of Sciences Ain Chock university hassan 2 ( Morocco)	Abou El Hassan Ahmed Magnetic and resistivity measurements of magnetic penetration depth and coherence length in high temperature superconductor Ibn Zohr University, Faculty of sciences, Agadir (Morocco)	Cosson Mickael Development of a simulator for the photovoltaic energy production and its storage in an autonomous solar drone Institut des matériaux Jean Rouxel NANTES (France)
16:00 - 16:15	Dachraoui Ibrahim Valorisation des résidus de charbons et des boues de filtrations dans la réalisation des pavés, agglos ou parpaing écologique Faculty of Sciences, Chouaib Doukkali University, El-Jadida Morocco	Akroud Touria Electronic and magnetic correlations in quantum entanglement of 1D Extended Hubbard Model Higher Normal School, Hassan II University, Casablanca ( Morocco)	Ahmed Md Tofael Modeling and Sensitivity Analysis of Hybrid Solar System ICT of Evora, Department of Mechatronics Engineering, University of Evora, Portugal
16:15 - 16:30	Laarabi Bouchra Characterization of dust particles over Tamil Nadu state of India and investigation of the influencing factors of soiling images analysis Natarajan RAJASEKAR (VIT, Vellore - 632014, Tamil Nadu India)	Orfi Hamza Silver and Cobalt oxide Nanoparticles deposited on Mesoporous Natural Phosphate: Impact of Metal synergy on Catalytic Activity Université Sultan Moulay Slimane - Faculty Polidisciplinary of Khouribga ( Morocco)	Elghyati Nabil Impact of the secondary phase ZnS on CZTS performance solar cells using simulation program SCAPS and Impedance spectroscopy Laboratory of Physics of Condensed Matter (LPMC). University Research Center (CUR) in Renewable Energies & Intelligent Systems for Energy "EnR&SIE". Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco
16:30 - 16:45	Outazkrit Mbarek Circulating Current Mitigation Control in Modular Multilevel Converter FST of Settat, Hassan First University of Settat ( Morocco)	El Hana Ahmed Fluid intrusion correlation process in porous media faculté des sciences ain chock ( Morocco)	Safaa Elgharbi Double exponential Sinc collocation method for the three-dimensional Schrödinger equation. National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco

16:45 - 17:15	<b>Coffee break</b>		
17:15 - 17:30	<p style="text-align: center;"><b>Jamal Bouchaib</b> 3D numerical Analysis of combined heat transfer through concrete hollow bricks Faculty of Sciences Semlalia ( Morocco)</p>	<p style="text-align: center;"><b>Fangachi Najoua</b> Monitoring of road safety and truck compliance with a weigh-in-motion system based on piezoelectric energy conversion National School of Applied Sciences EL Jadida, Chouaib Doukkali University, ( Morocco)</p>	<p style="text-align: center;"><b>Hamid Belghiti</b> Duty Cycle Stabilization Based On Fuzzy-PID MPPT Controller For PV System National School of Applied Sciences EL Jadida, Chouaib Doukkali University, ( Morocco)</p>
17:30 - 17:45	<p style="text-align: center;"><b>Riad Walid</b> Fabrication and characterization of an MAPBI3 P-I-N Perovskite solar cell Cadi Ayyad University, Marrakesh. ( Morocco)</p>	<p style="text-align: center;"><b>Baalla Fatima</b> Manufacturing aluminum foam by Ascorbic Acid as a foaming agent: structural analysis Ecole Nationale Supérieure d'électricité et de Mécanique [Casablanca] ( Morocco)</p>	<p style="text-align: center;"><b>El Asri Saloua</b> Microstructure and electrical conductivity of Zn, Cu co-doping forsterite ceramics Laboratory of Materials, Energy and Environment (LMEE) ( Morocco)</p>
17:45 - 18:00	<p style="text-align: center;"><b>Akharkhach Badr</b> First-principles DFT investigation of the electronic and optical properties of Br doped rutile TiO<sub>2</sub> for application in photovoltaic panels coatings and self-cleaning Faculty of Sciences, Mohammed V University in Rabat, Morocco</p>	<p style="text-align: center;"><b>Fechtal Imad</b> Monte Carlo simulations of MgO thin films sputtering yields by noble-gas ion bombardment in plasma display panel PDP</p>	<p style="text-align: center;"><b>Zaim Salma</b> Modelling of daily global solar radiation using Artificial Neural Network approach Faculty of Sciences, Mohammed V University in Rabat, Morocco Morocco), 3 - Asmae ARBAOUI (Research Team in Matter and Radiation Science (ESMAR), Faculty of Sciences, Mohammed V University in Rabat, Morocco. Morocco)</p>

18:00 - 18:15	<p>Chtaibi Khalid Lattice Boltzmann Simulation of Natural Convection Around Heating Rhombus Cylinders Confined within a Square cavity Filled with a Ferrofluid Fe<sub>3</sub>O<sub>4</sub>-H<sub>2</sub>O Cadi Ayyad University, Faculty of Sciences Semlalia, B.P. 2390 Marrakesh, Morocco. ( Morocco)</p>	<p>Eddiai Fouad The study of effect the coalescence and 3D transition phenomena of Au islands on Ag (110) substrate on epitaxial growth by simulation of molecular dynamics Université Sultan Moulay Slimane - USMS Béni Mellal, (Morocco)</p>	<p>Bouaaliouat Omar Towards a new generation of gas sensors based on bio-synthesized CuO : experimental and theoretical investigation Faculty of Science, Ibn Zohr University, Agadir, ( Morocco)</p>
18:15 - 18:30	<p>Messous Mohamed Youssef Titanium dioxide TiO<sub>2</sub>(Ce,Nd) nanopowders: Coprecipitation Synthesis, Structural and optical properties Cnesten National Center for Energy, Sciences and Nuclear Techniques, Rabat, Morocco</p>	<p>Moujoud Salaheddine Performance analysis of CuInSe<sub>2</sub> based solar cells using SCAPS-1D ERDyS Laboratory MEEM&amp;DD Group ( Morocco)</p>	
18:30 - 19:30	<b>Poster Session I</b>		

<b>October 28, 2021</b>	
08:30 - 9:00	<p style="text-align: center;"><b>Plenary 5 : Legrand Jack</b> Light transfer and bioenergy from microalgae CRTT ( France)</p>
09:00 - 9:30	<p style="text-align: center;"><b>Plenary 6 : Didier Robert</b> Challenges and opportunities for treatment processes of micro- and nanoplastics in wastewater Institut de Chimie et Procédés pour l'Énergie, l'Environnement et la Santé Université de Strasbourg-FRANCE</p>

9:30 - 9:50	<p><b>Keynote 7 :</b> Mehmet Ertugrul A wide band hybrid radar absorber Ataturk University, Faculty of Engineering, Department of Electric &amp; Electronics, Engineering and Department of Nanoscience and Nanoengineering 25240 Erzurum-TURKEY</p>	<p><b>Keynote 8:</b> Amélia Loja Multifunctional composite materials: a simulation perspective University of Lisbon, Portugal</p>	<p><b>Keynote 9:</b> Saifaoui Dennoun Desalination technologies using a multi- source system based on renewable energies and hydrogen Faculty of Science, Ain Chock,Casablanca ( Morocco)</p>
09:50 - 10:15	<b>Coffee break</b>		
10:15 – 10:30	<p>Madiha Yessari Design and Numerical Simulation of a Piezoelectric Harvester using PVDF Polymer for Keyboard Application National School of Applied Sciences EL Jadida, Chouaib Doukkali University, ( Morocco)</p>	<p>Lucrece Barbara Penpen Komgue Morphological and Mechanical Proprieties Influence of Earplugs based on Porous Polyurethane (PU) and Polyvinyl-Chloride (PVC) polymers for Human ear protection National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco</p>	<p>Mustapha El Mliles The parameters influencing the behavior of the photovoltaic-thermoelectric (PV-TE) hybrid system FSTM Mohammedia University hasan II Casablanca Morocco</p>
10:30 – 10:45	<p>Abdellaoui Sara A practical modeling approach for silicon solar cells with only four parameters Ecole nationale des sciences appliquées Kenitra, Morocco</p>	<p>El Haloui Yassine Multiscale modeling of composite materials: case study of asphalt concrete Université Chouaib Doukkali, El Jadida (Morocco)</p>	<p>Benbella Achraf Advantageous effects of the Pt-Ag (100) Surface Alloy: Enhanced adsorption of pyridine molecule (C<sub>5</sub>H<sub>5</sub>N). Faculty of Sciences Ben Msik Casablanca, Hassan II University of Casablanca</p>
10:45 – 11:00	<p>Jamal Elmansour Potential of seawater pumped storage hydropower plants: Case of Morocco Universite Chouaib Dokkali ( Morocco)</p>	<p>Ait Lahcen Jaouad Nanofiltration process in desalination phenomenon: Langevin dynamic model Laboratory of Bio-Geosciences and Materials Engineering ( Morocco)</p>	<p>El Hamdaoui Ahmed Vibrational and thermal properties of fresnoite (BTS), a molecular dynamics study University Hassan II , Casablanca, Morocco</p>

11:00 – 11:15	<p>Chamali Hajar New approach for assessing soiling particle size distribution on PV modules Faculty of Sciences, Mohammed V University in Rabat, Morocco</p>	<p>Bourzgui Omaima New nanofiltration technologies of sea and brackish water desalination process using carbon nanotubes Faculty of science ain chock, Hassan 2 university of Casablanca (Morocco)</p>	<p>Choukri Oumaima Study of the Optical Properties of metallic nanoparticles for cancer Diagnosis and Therapy Faculty of Sciences Semlalia, Cadi Ayyad university (Morocco)</p>
11:15 – 11:30	<p>Rachidy Chaymaa Numerical modeling of CZTS thin film based solar cells Laboratory of Engineering Sciences For Energy ( Morocco)</p>	<p>Takassa Rabi Optical and electronic properties of armchair C and BN nanotubes (5,5) : DFT study Faculty of Sciences Semlalia, Marrakech (Morocco)</p>	<p>Hinna Maha Synthesis of ITO thin films by Spray pyrolysis based on Taguchi design Hassan II University of Casablanca, FSTM Mohammedia, Morocco. ( Morocco)</p>
11:30 – 11:45	<p>Riham Farhani Optimal planning approach for Electric Vehicles Charging by considering the impact of traffic conditions on the electrical energy consumed laboratory institute of electronics, microelectronics and nanotechnology ( France)</p>	<p>Jadoual Lamiae Optical emission from Titanium target under beam sputtering Laboratoire Matériaux, energie et Environnement (Université Cadi Ayyad, Marrakech Morocco)</p>	<p>Salhi Imane Development of measurement apparatus for thermal characterization of low thickness polymers Laboratoire des sciences de l'ingénieur pour l'Énergie, ENSAJ Morocco</p>
11:45 – 12:00	<p>Khobbaizi Youness Monte Carlo simulation of Novalis-Tx linear accelerator using GATE/Geant4 code for dosimetry analysis Univ My. Slimane, Laboratory LS3M, Polydisciplinary Faculty, Houribga, ( Morocco)</p>	<p>Ramzi Zahra Synthesis, thermal and structural properties of amorphous and crystalline phases in Bi<sub>2</sub>O<sub>3</sub>-SrO-TeO<sub>2</sub> system Cadi Ayyad University, Faculty of Science Semlalia Marrakech,(Morocco)</p>	<p>Dahlioui Dounia Waterless cleaning technique for photovoltaic panels on dual-axis tracker Faculty of Sciences, Mohammed V University in Rabat, Morocco</p>



12:00 – 12:15	Louzazni Mohamed Parametric curve optimization of Cds/Cu(In,Ga)Se <sub>2</sub> solar cell interface National School of Applied Sciences EL Jadida, Chouaib Doukkali University, ( Morocco)	Elkhouad Soukaina Structural, morphological and magnetic properties of Sr <sub>0,54</sub> Ca <sub>0,46</sub> Fe <sub>6,5</sub> Al <sub>5,5</sub> O <sub>19</sub> M-type hexaferrites: Effects of annealing temperature FSAC. University of Hassan II Casablanca ( Morocco)	Najim Abdessamad Influence of Cu ,Co and Ni doped on physical properties of ZnS thin films by spray pyrolysis technique ERDyS laboratory,MEEM DD Group, HassanII University of Casablanca, ( Morocco)
12:15 – 12:30	Rashel Masud Rana Photovoltaics' Faults Identification based on Real Time Internal and Environmental Data University of Evora ( Portugal)	Mekkaoui Ayoub Abdelkader Valorization of Moroccan Natural Phosphate as a Mesoporous Catalytic Carrier for Nanoparticles Deposition Towards Efficient Supported Nanocatalysts Université Sultan Moulay Slimane - Faculty Polidisciplinaire of Khouribga ( Morocco)	Salhi Wafaa double two photon absorption in a stepped quantum well in the terahertz range Groupe d'étude des matériaux optoélectroniques ( Morocco)
12:30 - 14:30	<b>Lunch</b>		
14:30 – 15:00	<b>Plenary 7 : Oughaddou Hamid</b> Emerging new 2D materials : Silicene and Phosphorene Institut des Sciences Moléculaires d'Orsay, ISMO-CNRS, Université Paris-Sud, 91405 Orsay-France Département de physique, Université de CY Cergy Paris University, 95000 Cergy-Pontoise, France ( France)		
15:00 – 15:30	<b>Plenary 8 : Vincenzo Guidi</b> On the chemoresistive properties of a sensor based on SiC nanoparticles University of Ferrara, Italy		



15:30 – 16:15	Jbilou Safia Processes for reduction odor in industrial plants by cold plasma University Hassan 2 ( Morocco)	Ataalite Hassan Step-edge exchange mechanism effect on surface roughness during electrodeposition of silver metal using a Kinetic Monte Carlo Polydisciplinary Faculty of Khouribga ( Morocco)	Lghazi Youssef Investigation of nucleation, growth mechanism, structural, and optical properties of ZnO doped Bi electrodeposited on ITO substrat Laboratoire biogéosciences et ingénierie des matériaux ( Morocco)
16:15 - 16:30	Sadiki Amari Abdelhay PWM sensor-less Balancing Technique for the Three-phase Nine-Level PUC-NPC Converter ”	Anasser Imane Structure Control of SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> prepared by solid state treatment for ferroelectric application. University of Cadi Ayyad Marrakech, (Morocco)	Oulmaati Lamyae The energy transfer efficiency between T and Y in silica hafnia glass and glass ceramic planar waveguides. ENSA Tangier, University Abdelmalek Essaadi, Tangier, ( Morocco)
16:30 - 16:45	Alouani Younes Sustainable hydrogen production methods University Hassan 2	Benali Hajar Synthesis and characterization of Mg-doped ZnO thin-films for photovoltaic applications Hassan II University of Casablanca, FSTM Mohammedia ( Morocco)	El Ouedghiri-Idrissi Ismail Photoluminescence of organic thin film Copper Phthalocyanine CuPc for LED application Laboratory Physics of Condensed Matter and Renewable Energies ( Morocco)
16:45 - 17:00	Ait El Haj Dris Synthesis of Cu <sub>2</sub> NiSnS <sub>4</sub> thin film via spin-coating technique: effect of annealing temperature Laboratoire Matériaux, énergie & Environnement (LaMEE) Faculté des Sciences Semlalia ( Morocco)	Agnaou Abdelmajid Synthesis and study of the structural properties of Bi <sub>4</sub> P <sub>x</sub> V <sub>2-x</sub> O <sub>11</sub> Université Cadi Ayyad de Marrakech ( Morocco)	Benrass Noureddine Quantum correlations in an optomechanical system Faculty of science, University Ibn Zohr, agadir, Morocco
17:00 - 17:30	<b>Coffee break</b>		

17:30 - 17:45	<p>Essagui Ayoub The exploitation of oil shale Renewable energies and system dynamics Laboratory ( Morocco)</p>	<p>Tabbai Yassine Use of Pyroelectric Generators to Harvest Energy from Disc Brake Pads for Electric Vehicle Wireless Sensors National School of Applied Sciences of El Jadida Morocco</p>	<p>Lougdali Meriem Study of photophysical properties of Mgq2 Thin film Faculty of Sciences and Technology Hassan II University of Casablanca Mohammedia, (Morocco)</p>
17:45 - 18:00	<p>Saad Basma The impact of Weather and Panel characteristics Features on Photo- voltaic Power Forecasting Université Chouaib Doukkali</p>	<p>Sellam Abdellah Ab-initio study of the electronic properties of NO and H2 adsorption on graphene. University Cadi Ayyad, Higher Normal School, Marrakech,( Morocco)</p>	<p>Douhi Said Design of Triple-Band Textile Antenna for Wearable Applications Faculty of Sciences Ben M'Sik Hassan II University, Casablanca, ( Morocco)</p>
18:00 - 18:15	<p>Benahsina Azzeddine Valorization of mining waste as construction materials to preserve natural resources and reduce pollution Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakesh, Morocco</p>	<p>Gueddouch Karima Structural, optical and electrical properties of F doped ZnO films: Experimental and Theoretical study. Abdelmalek Essaadi University Morocco</p>	<p>El Ghaouti Chahid Analysis of relaxation processes and low frequency dispersion of wastes water and soils contaminated Faculty of Sciences, Chouaib Doukkali University, El-Jadida ( Morocco)</p>
18:15 - 18:30	<p>Rkhis Mourad Tuning the high thermodynamic properties of the perovskite hydride ZrNiH3 by Zr and Ni vacancies and H doping for hydrogen storage applications: Computational experiments National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco</p>	<p>Khadija Oumghar Elaboration and characterization of electroactive PLA/TiO2 nanocomposite for piezoelectric <math>\beta</math>-phase enhancement REMTEX Laboratory, Higher School of Textile and Clothing Industries (ESITH), Casablanca, Morocco Laboratory of Physics of Condensed Matter (LPMC), Faculty of Sciences Ben M'Sik, Hassan II Univesity, Casablanca, Morocco</p>	<p>Fellahi Nabil Effect of substrate temperature on the Stress and blue light emission of nanostructured In2O3-F thin films prepared by spray pyrolysis Laboratoire Optoélectronique et Physico- chimie des Matériaux. Université Ibn Tofail, Faculté des Sciences Kenitra (Morocco)</p>

18:30 - 19:30	<b>Poster Session II</b>
19:30 - 19:45	<b>Discussions and closing remarks</b>

<b>Friday, 29 October</b>	
09:00	<b>Excursion &amp; Free time</b>

## Poster Session I

1	Mabchour Ghizlane A novel (PV/RC) hybrid system for diurnal photovoltaic and nocturnal radiative cooling applications Université Sultan Moulay Slimane
2	Kawtar Bria Angular distribution of sputtered vanadium particles under Kr <sup>+</sup> bombardment with oblique incidence. Simulation study. Laboratory of Artificial Intelligence & Complex Systems Engineering (AICSE) (ENSAM, Hassan II University Of Casablanca, Morocco. Morocco)
3	Khaled Mnaouer Applicable techniques to reduce the impact of salinity on agriculture Renewable Energies and Systems Dynamics Laboratory Ain Cock Faculty of Sciences, Morocco 2Condensed matter physics laboratory Faculty of Sciences University Chouaib Doukkali El Jadida, Morocco
4	El Mouden Mahmoud, Kaddari Mohamed Application of Infrared thermography for induction motor diagnosis: From laboratory to in-situ Laboratory of Engineering Sciences for Energy (LabSIPE). University Research Center (CUR) in Renewable Energies & Intelligent Systems for Energy "EnR&SIE". National School of Applied Sciences, ChouaibDoukkali University, El Jadida - Morocco
5	Derraz Meryiem Bio-Piezoelectric Composites for Mechanical Energy Harvesting Applications Sciences Engineer Laboratory for Energy - National School of Applied Sciences, Chouaib Doukkali University, EL Jadida, Morocco
6	Ouedrhiri Abdessamad Biochar material derived from Argan shell waste with superior methylene blue dye adsorption performance Ecole Normale Supérieure, Hassan II University of Casablanca ( Morocco)
7	Moucharih Abdelkarim Biosensor detection of cancer cell based on photonic crystal Faculté des Sciences SEMLALIA Marrakech Morocco
8	Tamin Abdelilah Catalytic oxidative decomposition of hydrogen sulfide into elemental sulfur and water with simultaneous production and storage of hydrogen Laboratory of Engineering Sciences for Energy, National School of Applied Sciences of El Jadida, Chouaib-Doukkali University, El Jadida, Morocco

9	Fernandes Samuel Characterization of a low-cost light emission diode and spectrometer calibration for nitrate measurements in aquatic environments Physics Department, University of Evora ( Portugal)
10	Assif Safaa Comparison between 3D & 2D Modeling of the Human Ear Using the Equivalent Mechanical Impedance. Ecole nationale des sciences appliquées d'El Jadida ( Morocco)
11	Hidki Rachid Cooling by mixed convection of two heat-generating blocks in a ventilated cavity: Application to the cooling of electronic components LMFE, Department of Physics, Cadi Ayyad University, Faculty of Sciences Semlalia, Marrakesh, (Morocco)
12	El Kissani Abdelkader Cu <sub>2</sub> CoSnS <sub>4</sub> thin film solar cells Laboratory of Materials, Energy and Environment Faculty of Sciences Semlalia (FSSM), Cadi Ayyad University Marrakech, (Morocco)
13	Ennawaoui Amine Development of new biopolymers for sedimentation of solid particles Laboratory of Catalysis and Corrosion of Materials LCCM chemistry, El Jadida Chouaib Doukkali University, El Jadida, (Morocco)
14	Hassine Sanae DFT study on structural and electronic properties of Zn <sub>2</sub> NbN <sub>3</sub> by Tran and Blaha modified Becke-Johnson (TB-mBJ) potential Laboratoire des matériaux, de l'énergie et de l'environnement ( Morocco)
15	Amallah Layla Dynamical properties and scaling law of collective behavior in biomaterial systems LBGIM, Ecole Normale Supérieure, University Hassan II. Casablanca, Morocco ( Morocco)
16	Traore Lassana Ecological cleaning of PV panels by exploitation of dew water Physics of Semiconductors and Solar Energy Research Team (PSES), Energy Research Center, ENS, Mohammed V University in Rabat (E N S Morocco)
17	Khaaissa Yassine Effect of growth temperature on the physical properties of Spray pyrolysis deposited CZTS films Département de Physique [Kénitra] (Faculté des Sciences, Université de Ibn Tofail, Kenitra Morocco)
18	Garmim Taoufik Effect of organic solvent on the physical properties of spin-coated SnS thin films Laboratory of Condensed Matter Physics (LPMC), Department of Physic, Faculty of Sciences, Chouaib Doukkali University, El Jadida ( Morocco)
19	El Massi Said Effect of temperature annealing on structural, optical and electrical properties of nickel oxide thin films synthesized by the RF sputtering Faculty of Sciences SEMLALIA Marrakech (Morocco)
20	Talbi Abdelali Effect of temperature, thickness, and defect density of ZnS thin films for solar cells application: SCAPs Simulation Laboratory of Materials Physics and Subatomic, Faculty of Science, University Ibn Tofail, BP.133-14000 Kénitra, Morocco.
21	Smairi Salma Elaboration and Characterization of Cadmium Sulfide (CdS) thin films prepared by Chemical Bath Deposition (CBD) Laboratory LVHMOGBEEN, Hassan II University of Casablanca, FSTM ( Morocco)

22	Goumrhar Fayçal Electronic and magnetic properties of spintronic compounds: First-principles calculations Higher School of Education and Training of El Jadida (ESEF), Chouaib Doukkali University, El Jadida, Morocco
23	Elfatouaki Fatima Electronic and Optical properties of BaZrSe <sub>3</sub> orthorhombic phase for photovoltaic applications using DFT and TD-DFT methods Laboratoire des matériaux, de l'énergie et l'environnement (Morocco)
24	Ouizat Saadia Electronic properties of BaZrO <sub>3</sub> perovskite by using TB-mBJ approach for solar energy conversion devices Centre régional des métiers de l'éducation et de la formation Marrakech Morocco
25	El Bahi Amine Etude numérique de la déformation d'un toron de fibre de carbone lors de la mise en forme des matériaux composites à matrice polymère Laboratory for Renewable Energy and Dynamic Systems, FSAC, Casablanca, Morocco
26	Anoua Rania Experimental and computational analysis of the natural dye extracted from Rubia tinctorum plant for DSSC Laboratory of Engineering Sciences for Energy, National School of Applied Sciences of El Jadida, El Jadida, BP 1166, Morocco
27	Es-Saddik Mohammed Finite element Analysis of Notch Geometry Effect on Fatigue Behavior of Calcium phosphates bioceramics using cracked Semi-circular bend specimen (SCB) University Ibn-Zohr, Faculty of Sciences ( Morocco)
28	Hariti Nora Functional MgO-Essential oils hybrid materials and their antibacterial activities Laboratory of Engineering Sciences for Energy (EL JADIDA Morocco)
29	Zakaria Makir Hafnium and Erbium Codoped ZnO Thin Films as Anode Material and Spectral Modificater for Solar Cells Applications University Cheikh Anta Diop of Dakar SENEGAL
30	Chakar Khadija Hybrid Nanofluids Multi performance optimizations for the Cooling System coupling with Hybrid Photovoltaic Thermal Collectors Laboratory of Engineering Sciences for Energy (LabSIPE). University Research Center (CUR) in Renewable Energies & Intelligent Systems for Energy "EnR&SIE". National School of Applied Sciences, ChouaibDoukkali University, El Jadida - Morocco
31	Belhora Fouad Hybrid phase change materials with PVDF film to improve pyroelectric energy harvesting Laboratory of Engineering Sciences for Energy, National School of Applied Sciences of El Jadida, Chouaib-Doukkali University, El Jadida, Morocco
32	Dieye Awa Importance of the material used as an anti-reflective coating on monocrystalline silicon solar cells for photovoltaic applications Faculté des Sciences et Techniques (FST) ( Senegal)
33	El Rharib Abdelkhalek Improved thermoelectric performance of double perovskites (A = Cs, K, Rb) from first-principles calculations Laboratory of Condensed Matter and Renewable Energy, FST Mohammedia, University of Hassan II ( Morocco)
34	Sebbahi Seddiq Investigation of appropriate technology for production and storage of hydrogen based on renewable energy in Morocco Université Chouaib Doukkali El Jadida Morocco

35	Doubi Youssef Investigation of experimental and theoretical properties of the Rutile- type stannic oxide materials for gas sensor application ERDYS Laboratory (BP 146 Mohammedia 20650 Morocco)
36	El Haimer Chaimaa Investigation of nucleation and growth mechanism of selenium electrodeposited on ITO substrate in nitric acid medium Ecole Normale Supérieure, Hassan II University of Casablanca ( Morocco)
37	Bouzaid Sohaib Lithium-ion Battery modeling using Dynamic Models Laboratory of Engineering Sciences for Energy, National School of Applied Sciences of El Jadida, Chouaib-Doukkali University, El Jadida, Morocco
38	Nefraoui Amal Lithium-ion battery state of charge prediction using Levenberg-Marquardt and Bayesian-regularisation algorithms. Sciences for Energy Laboratory LabSIPE, ENSAJ, Chouaib Doukkali University, El Jadida 1166 ( Morocco)
39	Abdelilah Kaddar Modeling a heating floor system with bond graph method ENSA El Jadida ( Morocco)
40	Najihi Ikrame Modeling and Analysis of the Piezoelectric Response of Cellular Polymers Laboratoire des Sciences de l'Ingénieur Pour l'Energie, Ecole Nationale Des Sciences Appliquées El Jadida, UCD (EL JADIDA Morocco)
41	Malki Zakariaa Modeling of a flexible Ocean Waves energy harvester using piezoelectric materials Laboratoire des sciences de l'ingénieur pour l'énergie ( Morocco)
42	Laaziz Zahira Monte Carlo simulations of pure tungsten and Advanced "Smart" tungsten alloys under helium bombardment for future fusion power plants Faculty of sciences Ben M'sik, Hassan II University) ( Morocco)
43	Ziti Ahmed Investigation of physical properties of CZTS absorber material deposited by spin coating technique FSTM Mohammedia University hasan II Casablanca Morocco
44	Chataoui Hassan New Honeycomb Structures of Phosphorene: A structural and energetic analysis. Laboratoire Chimie, Modélisation et Sciences de l'environnement (LCMSE) (Faculté Polydisciplinaire de Khouribga Morocco)
45	Ait Ali Mustapha New two-dimensional functionalized silicon dispersible nanosheets prepared by direct exfoliation of calcium disilicide Faculté des Sciences Semlalia Marrakech ( Morocco),
46	Abouelmahjoub Younes Nonlinear Control of Active Power Filter Connected to Photo-voltaic System University Chouaib Doukkali El Jadida, LabSIPE at National School of Applied Sciences, El Jadida ( Morocco)
47	Charqui Zouhair Numerical simulation of laminar and turbulent flows in tall cavities with sinusoidal heating LMFE, Department of Physics, Cadi Ayyad University, Faculty of Sciences Semlalia, Marrakesh, Morocco

48	Sbiaai Khalid Numerical Simulation the Monolayer Growth of Ag/Cu(110) System by Kinetic Monte Carlo Khouribga Polydisciplinary Faculty ( Morocco)
49	El Aallaoui Najla Numerical study of inorganic Cs <sub>2</sub> TiBr <sub>6</sub> solar cells with a double hole transport layers Laboratory of Condensed Matter Physics and Renewable Energy, Faculty of Sciences and Technology, Hassan II University of Casablanca Mohammedia, Morocco )
50	Lahlou Mohammed NUMERICAL STUDY OF INTERNAL RADIUS EFFECT ON MECHANICAL BEHAVIOR OF P265GH MATERIAL ENSAJ, LabSIPE, University chouaib Doukkali, EL Jadida, Morocco
51	Khadija Lalam Optimization of flotation parameters of sedimentary phosphate with silicate and carbonate gangue using experimental design methodology. Laboratoire des Matériaux avancés et de Génie des Procédés, école nationale supérieure de chimie, Ibn Tofail University, Kenitra, Morocco
52	Fergani Charifa Optimized Hyperconnected Production Network Facing Demand Variation Laboratory of Engineering Sciences for Energy, National School of Applied Sciences of El Jadida, Chouaib-Doukkali University, El Jadida, Morocco
53	Mossaddek Meriem Parameter Estimation of Lithium-Ion Battery using Extended Kalman Filters Sciences Engineer Laboratory for Energy ( Morocco)
54	El Hajjam Nablous Performance comparison of three grid-connected PV systems in two Moroccan locations Team PSES Energy Research Centre, ENS Mohammed V University in Rabat, Morocco
55	Laouid Amina Photoluminescence properties of DCM thin films grown by PVD Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University, Grudziadzka 5, 87-100 Torun, Poland
56	Labrag Jihane Porous magnetic hydroxyapatite composite from natural phosphate for the recyclage and the degradation of organic pollutants in water Laboratoire de Chimie Appliquée des matériaux, Faculté des Sciences, Université Mohammed V Rabat ( Morocco)
57	Abderrahim Boutahar Magnetocaloric effect of TMCeFeO <sub>4</sub> (TM=Mn, Co) spinel ferrites powders Laboratoire des Sciences de l'Ingénieur pour l'Energie. Ecole Nationale des Sciences Appliquées d'El jadida Université Chouaib Doukkali - El Jadida Plateau Morocco
58	Bghour Mustapha Spintronic properties calculations of germanium oxide doped and co-doped by 3f transition metal Ibn Zohr University, Faculty of sciences, department of physics, SHTC Laboratory Agadir Morocco)
59	Said Taoufik Quantum CNOT Gate in Optical Cavity with a Cyclic Four-level System Faculté des Sciences Ben M'sik- CASABLANCA ( Morocco)
60	Mazouz Sanae Rare earths (Ce,Sm) doped MgAl <sub>2</sub> O <sub>4</sub> for phtonic conversion: synthesis and characterization CNESTEN Rabat Morocco



61	Chouikh Abdelhaq Realization of the Quantum Toit-€oli gate Based on a Six-Level Atomic System FacultÉ des Sciences Ben M'sick Casablanca ( Morocco)
62	El Mahdi Bouabdalli reparation and characterization of nickel and aluminum co-doped SnO2 thin films for optoelectronic applications Laboratory of Engineering Sciences for Energy (LabSIPE), National School of Applied Sciences, Chouaib Doukkali University, El Jadida 24000, Morocco
63	Yacouti Fatima Zahra Role of Polarization signals effects of electrostrictive composite for mechanical energy harvesting Laboratoire de physique de la matiÃre condensÉe (LMPC), FacultÉ des sciences BEN M'SIK, UniversitÉ HASSAN II de CASABLANCA. ( Morocco)
64	Sabani Erroumayssae Rolling Bearing Fault Diagnostics using Wavelet Analysis For Predictive Maintenance Laboratory of engineer science for energy, National Engineering School of Applied Sciences. ChouaÃ b Doukkali University, El Jadida, Morocco
65	Erradi Amine Simulation study of a supercapacitor using an electrolyte optimized by surfactant to improve its lifetime Laboratory of Engineering Sciences for Energy, National School of Applied Sciences El Jadida, Chouaib Doukkali University El Jadida, Morocco
66	Eraza Najoua SnO2 co-doped by (K, Dy) and (K, Sm) Synthesis and structural properties analysis for photonic conversion Laboratory of Applied Physics, Computer Science and Statistics (LPAIS), Faculty of sciences Fes ( Morocco),
67	Graich Abderrazzak Solidification of sludge from textile wastewater filtration on sand / bottom ash in Portland cement mortar Physics of Condensed Matter Laboratory, physics department, Faculty of Science, Chouaib Doukkali University, El Jadida Morocco ( Morocco)
68	Tair Melaid Storage and recovery of hydrogen in phosphate products FacultÉ des sciences Ain-Chok Casablnaka Morocco
69	Benaissa Nouhaila Structural and optical characterization of spin coated copper oxide thin films for solar cells applications Laboratory of Condensed Matter Physics (LPMC), Department of Physics, Faculty of Sciences, ChouaÃ b Doukkali University, El Jadida ( Morocco)
70	Drissi Safia Structural, morphological, optical study of Cu2Fe1-XCoXSnS4 (X=25%) thin film synthesized by the sol-gel method Laboratoire MatÉriaux, Énergie & Environnement (LaMEE) FacultÉ des Sciences Semlalia ( Morocco)
71	Lahcen Nkhaili Structural, optical and electrical characteristics of CZTS films by RF-sputtering FacultÉ des Sciences SEMLALIA ( Morocco)
72	Bousseta Mohammed Studies of structural, optical, morphological and electrical properties of RF-sputtered V2O5 thin films with annealing of 400 0C Laboratory of Physics of Solide and Thin Films, Faculty of Sciences Semlalia, Cadi Ayyad University, BP2390, Marrakech, Morocco)
73	Karbal Abdelbast Study and implementation of a hybrid seawater desalination process by electromagnetic and capacitive processes Renewable Energy and Systems Dynamics Laboratory (Faculty of Sciences, University Hassan II, Casablanca, Morocco)

74	Nait Bihi Abdelilah study of the optical properties of organic and inorganic materials for their use in passive temperature control Faculty of Science and Technology Settat (Morocco)
----	--

## Poster Session II

75	Bortali Meryem Study of the regulatory feasibility of dredged sediments' valuation as construction materials and their environmental impact in Morocco UniversitÉ Chouaib Doukkali (Avenue des FacultÉs, El Jadida Maroc)
76	Talbi Abdelali Synthesis and Characterization of CCoTS thin films using spray pyrolysis technique Laboratory of Materials physics and subatomic, Faculty of science, Ibn Tofail University Kenitra, Morocco
77	Abali Abdelaziz Synthesis and characterization of the next generation of thin films $Cu_2Ni(1-x)Co_xSnS_4$ (for $x = 0.50\%$ ) without sulfurization step Laboratoire MatÉriaux, Énergie & Environnement (LaMEE) FacultÉ des Sciences Semlalia ( Morocco)
78	Belkoufa Ikram Synthesis, structural and piezoelectric parameters of PMN-PT single crystals LabSIPE, Ecole Nationale des Sciences AppliquÉes, University Chouaib Doukkali d'El Jadida,
79	Laaraj Abdelali Synthesis, Structural Characterization and Dielectric properties of gadolinium-doped $Sr_2NaNb_5O_{15}$ systems Laboratoire d'ingénierie et MatÉriaux, FacultÉ des Sciences Ben M'Sik, Casablanca Morocco
80	Laghzizil Abdelaziz Temperature and frequency dependence of ionic conductivity of the heat-treated Moroccan natural phosphate and its Na-modified ceramics Laboratory of Applied Chemistry of Materials Faculty of Science University of Mohammed V Rabat Morocco
81	Es-Saidi Ikrame Temperature and frequency dependence of ionic conductivity of the heat-treated Moroccan natural phosphate and its Namodified ceramics Laboratory of Applied Chemistry of Materials Faculty of Science University of Mohammed V Rabat Morocco
82	Bakri Alaoui Soufiane The effect of the dilution and the pretreatment by lime on the efficiency of the treatment of olive mill wastewater by infiltration percolation using natural and low-cost adsorbents UniversitÉ Chouaib Doukkali (Avenue des FacultÉs, El Jadida 24000, Maroc Morocco)
83	Harchaoui Mohamed The effect of the number of tubes added to a heat exchanger to enhance heat transfer in phase change material LS3M, FacultÉ Polydisciplinaire, Univ. Sultane My Slimane, Khouribga, Morocco
84	Boufass Siham The stoichiometry effect on the failure process in composite materials Ecole Normale SupÉrieure, University Hassan II. Casablanca, Morocco

<b>85</b>	Moussadeq Salma The study of Benzene adsorption on Ag(100) and Ag(110) surfaces using DFT Laboratoire de physique de la mati�re condens�e (LMPC), Facult� des sciences BEN M'SIK, Universit� HASSAN II de CASABLANCA.MAROC
<b>86</b>	Ennawaoui Chouaib Theoretical Modeling and Simulation on the Piezoelectric Properties in Cellular Polymers for Mechanical Energy Harvesting Laboratoire des Sciences de l'Ing�nieur Pour l'Energie, Ecole Nationale Des Sciences Appliqu�es El Jadida, UCD, 24000 El Jadida, Morocco
<b>87</b>	Lotfi Mohamed Thermal Conductivity of Nanofluid Ethylene-Glycol-Water/ Graphene by the Pulse-Power Integrated-Decay Technique Laboratory of Materials , Energy and Environment (Facult� des sciences semlalia Marrakech Morocco)
<b>88</b>	Rejdali Hajar Thermoelectric and Piezoelectric polymer's Development for multi-source energy harvesting systems Sciences Engineer Laboratory for Energy ENSAJ El Jadida Morocco
<b>89</b>	Amiri Lahoucine Thermoelectric properties of copper sulphide thin films Energy and Environment (Facult� des sciences semlalia Marrakech Morocco)
<b>90</b>	Wahas Arwa Ahmed TiO2 nanotubes modified with noble metal-free Co3O4 nanoparticles as a photocatalyst for efficient photocatalytic hydrogen and oxygen generation from water under sunlight irradiation Universit� Ibn Tofail, Facult� des sciences, D�partement de Physique, Laboratoire << Syst�mes Electroniques, Traitement de l'information, M�canique et Energ�tique Kenitra Morocco
<b>91</b>	Charifi Ikram Energy management of hybrid electric vehicles Laboratory of Engineering Sciences for Energy (LabSIPE). University Research Center (CUR) in Renewable Energies & Intelligent Systems for Energy "EnR&SIE". National School of Applied Sciences, ChouaibDoukkali University, El Jadida - Morocco ( Morocco)
<b>92</b>	El Ghaouti Chahid Using dielectric permittivity and electrical conductivity to detecting heavy metal contamination in water and soil : Application to Cadmium salt solutions, Effect of concentration and pH Laboratory Physics of Condensed Matter (LPMC). University Chouaib Doukkali, El Jadida ( Morocco)
<b>93</b>	Elbarmaki Jamal Wave energy harvesting using Silicone as electro-active polymers Laboratory of Engineering Sciences for Energy El Jadida Morocco
<b>94</b>	Chahid El Ghaouti Analysis of relaxation processes and low frequency dispersion of wastes water and soils contaminated Polydisciplinary Faculty of Sidi Bennour, University Chouaib Doukkali, Morocco
<b>95</b>	Abdellatif Aarfane Biosorption modeling of an organic dye in fixed bed dynamic mode: reactor biosorption packed with palm bark and sugarcane bagasse Ecole Sup�rieure d'�ducation et de Formation, Universit� Chouaib Doukkali, El Jadida Morocco
<b>96</b>	Makhkhas Youssef Characteristics of phosphate glasses containing iron, sodium and chromium Universit� Hassan II, Facult� des sciences AinChock ( Morocco)

<b>97</b>	Nezami Savojbolaghi Mina Characterization of photovoltaic panels: a comparative study University of Evora Portugal
<b>98</b>	Ettami Said Design and development of a parabolic solar concentrator Faculté des sciences Ain chock (Casablanca Morocco)
<b>99</b>	Zakaria Sana effect of copper concentration on the characteristics of CZTS thin films. University of Cadi Ayyad (Marrakech, 40000 Morocco)
<b>100</b>	Mrigal Asmaa Elaboration of thermochromic smart windows VO <sub>2</sub> doped Mo thin films for energy efficiency Faculté des Sciences, Université de Ibn Tofail, Kenitra Morocco)
<b>101</b>	Belmahdi Brahim Global Solar Radiation Prediction with Multiple Training Neural Network Algorithm Sciences for Energy Laboratory LabSIPE, ENSAJ, Chouaib Doukkali University, El Jadida Morocco
<b>102</b>	Rachid Chami Mixed B-site Chalcogenide perovskites for solar energy harvesting: first Principles study LEPE, High school of technology, Hassan II University, Casablanca, Morocco
<b>103</b>	Boutaldat Meriem Modeling and analysis of an electromechanical energy harvesting system based textiles substrates and polyvinylidene Fluoride REMTEX Laboratory, Higher School of Textile and Clothing Industries (ESITH) Casablanca Morocco
<b>104</b>	Lekdadri Abdelmajid Modeling and simulation of new material for solar cells: ab initio calculation. Laboratoire LPMMAT, Université Hassan II, Casablanca, Maroc
<b>105</b>	Ed-Dokkali Imane Modeling and vibration analyses of composite wind turbine blade with horizontal axis (NREL 1.5-MW) by using Ansys APDL Imane ED-DOKKALI (residence habiba bloc b1 n 401 rue de Rabat tanger Morocco)
<b>106</b>	Aissi Tarik MPPT and pitch angle control for wind energy conversion system -Comparison of selected sites in Morocco- Sciences for Energy Laboratory LabSIPE, ENSAJ, Chouaib Doukkali University, El Jadida 1166 ( Morocco)
<b>107</b>	Bahar Jihane Nucleation and growth mechanism of cuprous oxide (Cu <sub>2</sub> O) electrodeposited on ITO substrate Bio-Geosciences and Materials Engineering Laboratory, Ecole Normale Supérieure, Hassan II University of Casablanca ( Morocco)
<b>108</b>	Zibar Wafaa Optimization of GaAs passivation parameters to improve electrical efficiency of MIS devices Faculty of Sciences Ben M'sik, Hassan II University
<b>109</b>	Sebbahi Seddiq Overview of North Africa potentials for a green hydrogen supply chain Université Chouaib Doukkali, El Jadida Morocco

<b>110</b>	Elouarraki Salaheddine Review of multi-port DC-DC converters related to renewable energy systems Laboratory of Engineering Sciences for Energy (LabSIPE), Chouaib-Doukkali University, EL JADIDA ( Morocco)
<b>111</b>	Lilane Amine Simulation & Optimization of Pilot Reverse Osmosis Desalination Plant Powered by Photovoltaic Solar Energy Laboratory of Renewable Energies and Dynamics of Systems, Hassan II University, Faculty of Sciences Ain Chock ( Morocco)
<b>112</b>	Laayati Oussama Smart Energy Management System: Design of a smart grid test bench for educational purpose Laboratoire Mécanique, Informatique, Electronique et Telecommunication (50 Rue Ibnou Lhaytham B.P. 577, Settat 26002 Morocco)
<b>113</b>	El Hadji Abdoulaye Niass Study of the impact of dust on the electrical performance parameters of CIGS modules installed in a Sahelian environment. University Cheikh Anta Diop of Dakar SENEGAL Senegal
<b>114</b>	Sdira Hajar Study of the influence of sintering conditions on the physicochemical and thermal properties of aluminosilicates: Clays - Kaolin - Fly ash Faculté des sciences Rabat Morocco)
<b>115</b>	El Mahboub Elyazid The low cost solution-processed CZTS absorber layer for solar photovoltaic application: effect of solvent on properties IMED-Lab. : GEMO, Groupe d'Étude des Matériaux OptoÉlectroniques, Faculté des Sciences et Techniques, Université Cadi Ayyad ( Morocco)
<b>116</b>	Elomrani Abdelali Theoretical investigation of h-BSb monolayer as anode material for lithium-ion batteries using the first principle method Sultan Moulay Slimane University of Beni Mellal, Polydisciplinary Faculty of Khouribga ( Morocco)
<b>117</b>	Ghazali Sara Adsorption of heavy metals from the uncontrolled landfill of Casablanca city by raw industrial waste and natural materials Université Chouaib Doukkali, Faculté des Sciences d'El Jadida ( Morocco)
<b>118</b>	Tanasehte Mohammed Cluster fibers distribution in breaking process of composite materials. Laboratoire Bio-Géosciences et Ingénierie des matériaux, Ecole Normale Supérieure, Université Hassan II- Casablanca ( Morocco)
<b>119</b>	Elidrysy Anouar Critical magnetic transitions and compensation points of a mixed ferrimagnetic Ising system Laboratory of Bio-Geosciences and Materials Engineering, Higher Normal School, Hassan II University, Casablanca, Morocco
<b>120</b>	Lafhal Amer Effects of the single-ion anisotropy on magnetic and thermodynamic properties of a ferrimagnetic mixed-spin (1,3/2) square Ising nanowire Université Chouaib Doukkali, Faculté des Sciences d'El Jadida ( Morocco)
<b>121</b>	Abdelali Samiri Elastic and structural properties of Mg <sub>25</sub> Al <sub>75</sub> binary metallic glass under different cooling conditions LS3M, Polydisciplinary Faculty of Khouribga, Sultan Moulay Slimane University of Beni Mellal, 25000 Khouribga, Morocco
<b>122</b>	Aynaou Aziz Electropolymerization investigation of polyaniline films on ITO substrate Bio-Geosciences and Materials Engineering Laboratory ( Morocco)

<b>123</b>	Fatihi Dounia Geometric and Material Considerations of Thin Film Concentration Solar Cells Laboratory of Engineering and Materials (LIMAT), Faculty of Sciences Ben M'Sik, Hassan II University of Casablanca, Morocco ( Morocco)
<b>124</b>	El Azrak Hicham Investigating NiAl intermetallic compound on Ni substrates: Molecular dynamics simulation Université Sultan Moulay Slimane - USMS (Béni Mellal, MA) (Béni Mellal Morocco)
<b>125</b>	Ouldhini Youssef Investigating the Structureâ€Elasticityâ€Density Relationship of 45S5 Bioactive Glass using Molecular Dynamics Simulations LS3M, Faculté Polydisciplinaire Khouribga, University Sultan Moulay Slimane, Khouribga ( Morocco)
<b>126</b>	Oukahou Said Investigation of LiMn <sub>1-x</sub> MxPO <sub>4</sub> (M=Ni, Fe; x=0, 0.5) as cathode materials for Li-Ion Batteries using Density Functional Theory Khouribga Polydisciplinary Faculty ( Morocco)
<b>127</b>	Sadek Otmane Modeling and Optimization of deposition of titanium oxide on ITO glasses by spin coating using the experimental design Laboratoire des Sciences de l'Ingénieur Pour l'Energie (LabSIPE), ENSA, El Jadida ( Morocco)
<b>128</b>	Nasrellah Hamid Nouvelle synthèse d'hydroxyapatite Ã partir de phosphogypse local Université Chouaib Doukkali, Faculté de Sciences, Laboratoire de Chimie Organique Bioorganique et Environnement, Morocco
<b>129</b>	El Mouden Zahra Numerical simulation of a microfluidic mixer Faculty of Sciences Ben M'sik (Faculty of Sciences Ben M'sik, Hassan II University of Casablanca Morocco)
<b>130</b>	Hariti Yassine Numerical study of stochastic fluid transport phenomena in porous media LBGIM Ecole Normale Supérieure, University Hassan II. Casablanca Morocco
<b>131</b>	Doubi Youssef Physical characteristics of pure Anatase TiO <sub>2</sub> thin layers prepared by robust low-cost chemical route FACULTY OF SCIENCES AND TECHNOLOGY (FSTM) Mohammedia Morocco
<b>132</b>	Labrag Abdelaziz Ab-initio theoretical study of electronic and magnetic properties of Cr-doped GeO <sub>2</sub> Ibn Zohr University, Faculty of applied sciences, SHTC laboratory, Ait Melloul Morocco
<b>133</b>	Badreddine Mohammed Removal of a textile dye (BL E-TL01) from water by the layered double hydroxide [Zn-Al-Cl] Centre Régional des Métiers de l'Éducation et de la formation (Morocco)
<b>134</b>	Chataoui Hassan Structural and energetic study of 2D silagraphene materials Laboratoire Chimie, Modélisation et Sciences de l'environnement (LCMSE) (Faculté Polydisciplinaire de Khouribga Morocco)
<b>135</b>	Lakouader Afaak Structural, dielectric, electrocaloric and energy storage properties of Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> ceramics synthesized by solâ€gel method Laboratoire de Matière Condensée et Nanostructures (Faculté des Sciences et Techniques Gueliz, Université Cadi Ayyad, , Marrakech, Morocco)

136	Soussi Ahmed Structural, electronic and optical properties of anatase TiO <sub>2</sub> : Experimental and theoretical investigation Laboratoire Matériaux et Energies Renouvelables Morocco
137	Ezaier Yassine Failure of composite membranes in desalination water process ENS University Hassan II Casablanca Morocco
138	Ouchte Ilham Studies on Mechanical and thermal Characterization of Developed Jute/Epoxy Composites Laboratoire d'Ingénierie des Structures, Systèmes Intelligents & Energie Electrique (LI2SI2E ( Morocco)
139	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. Laboratoire de physique des matériaux et subatomique, Université Ibn Tofail, Morocco
140	Redouane Mghaiouini The first Physico-chemical characterization of coastal sands in the DOUKKALA region (Morocco) Physical Chemistry Laboratory Applied Materials, Faculty of Sciences-Ben M'sik, Hassan II University, Casablanca Morocco
141	Amounas Said Theoretical study of structural, electronic, electric and optical properties of BaTiO <sub>3</sub> using DFT-LDA approach Polydisciplinary Faculty of Ouarzazate, Ibn Zohr University Morocco
142	Haouas Hayat thermal stability of Ni-Pd core-shell nanoparticles studied using dynamic molecular Materials Sciences, Mathematics and Modeling Laboratory Sultan Moulay Slimane University of Beni Mellal, Morocco
143	Moufakkir Abdelkrim Thermo-physical characterization and chemical, mineralogical analysis of the Red Earth from the region Rabat-Morocco MOUFAKKIR (Team Thermodynamic-Energy, Energy Research Center, Department of Physics, Faculty of Sciences, Mohammed V University, Rabat, Morocco
144	El Hantati Soukaina Thermodynamic properties of the ternary system of the alkali metals phosphates with electrolytes at 298.15 K: Na <sub>2</sub> HPO <sub>4</sub> – K <sub>2</sub> SO <sub>4</sub> – H <sub>2</sub> O Faculty of Science University of Mohammed V Rabat Morocco
145	Tamin Abdelilah Direct and selective oxidation of hydrogen sulfide to sulphur and water at low temperature Laboratory of Engineering Sciences for Energy, National School of Applied Sciences of El Jadida, Chouaib-Doukkali University, El Jadida, Morocco
146	Maymoun Mohammad Electronic and Optical Properties of pure and fully hydrogenated SiC honeycomb nanosheet Polydisciplinary Faculty of Khouribga (Morocco)
147	Nouri Youssef Enhancement of Theoretical and experimental study of sprayed SnS absorber material for solar cells applications MEEM & DD Group, Hassan II University of Casablanca, FSTM Mohammedia Morocco
148	Laouid Amina Structural and Optical properties of DCM thin films prepared by PVD Laboratory of engineer science for energy, National Engineering School of Applied Sciences. Chouaib Doukkali University, El Jadida, Morocco



<b>149</b>	Bouabdalli El Mahdi Structural, physical, thermal, photoluminescence properties and Judd-Ofelt analysis of europium doped strontium phosphate glasses Laboratory of Engineering Sciences for Energy (LabSIPE), National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco
<b>150</b>	Daouli Ayoub Impact of Sn doping on the hydrogen detection characteristics of ZnO thin films: Insights from experimental and DFT combination Laboratoire de Physique et Chimie ThÉoriques (Boulevard des Aiguillettes - B.P. 70239 F-54506 Vandoeuvre-les-Nancy France