

May 11, 2022				
08:30 - 09:30	Welcoming Participants & Registration Grand Amphi			
09:30 - 10:30	Official Opening of the SPIn 2022 Pr. Y. BOUGHALEB, President of Chouaib Doukkali University, El Jadida, Morocco Pr. A. AZIM, Director of National School of Applied Sciences of El Jadida, University of Chouaib Doukkali, Morocco Pr. M. ACHAK, General Chair of SPIn 2022, National School of Applied Sciences of El Jadida, University of Chouaib Doukkali, Morocco			
10:30 - 11:15	Coffee Break & Posters session I (ENSAJ HALL)			
11:15 - 12:00	Plenary 1: Professor Jamal CHAOUKI, Process electrification an affective way to reduce CO2 emission at source (Grand Amphi) Polytechnic Montréal, Canada Moderator: Professor Abdelmajid BELAFHAL, FS El Jadida, Morocco			
12:00 – 12:45	Plenary 2: Professor Rachid BENHIDA, Microwave and ultrasound-assisted chemical reactions (Grand Amphi) Chemical & Biochemical Sciences department, Mohammed VI Polytechnic University, Benguerir, Morocco Moderator: Professor Abdelmajid BELAFHAL, FS El Jadida, Morocco			
12:45 - 13:00	Adsorption of an azo dye onto natural Moroccan phosphate: from batch to continuous system –fatima zahra falil, Laboratoire d'Ingénierie de Procédés et d'Environnement, École Supérieure de Technologie de Casablanca, Morocco	Synthesis, Structural Characterization 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 –Elalami Abouelhaoul, Bioorganic chemistry laboratory, Faculty of Sciences - El Jadida, Morocco.	Study of PV-Wind System Using Mppt and Pitch Angle Control - Simulation for Oualidia City- Tarik Aissi, Sciences for Energy Laboratory, ENSAJ, Chouaib Doukkali University, El Jadida, Morocco.	A multi-objective modeling of the inventory location routing problem for a hazardous material –Yousra Omari Alaoui, TIC Lab, International University of Rabat, Rabat, Morocco
13:00 - 13:15	Natural phosphate and oxygen molecular as a heterogeneous catalytic system for oxidation of aldehydes into carboxylic acids in environmentally friendly - Mohamed Bakhada, University Abdelmalek Essaadi, Faculty of Sciences.	Development of a new and efficient Copper-Based Solid Heterogeneous Catalyst for Azide-Alkyne Cycloaddition Reactions - Noura AFLAK, LCAM, Faculté Polydisciplinaire de Safi, Université Cadi Ayyad.	Numerical study of turbulent natural convection within a vertical channel behind PV panel with different fins configurations - Hafid el Kharaz, LIPIM ENSA Khouribga, Sultan Moulay Slimane University, Morocco.	Blockchain Architecture for the Automotive Industry - Bouayad Bouchra, Laboratories of Engineering Sciences, National School of Applied Sciences Kenitra, University of Ibn Tofail , Kenitra, Morocco.

13:15 - 13:30	Enhancing rare earth element transfer from phosphate rock to phosphoric acid using an inexpensive fly ash additive – Mohammed HAKKAR, Laboratory of Nuclear, Atomic, Molecular, Mechanical and Energetic Physics, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Synthesis and characterization of alkali hexafluorosilicate M_2SiF_6 from aqueous fluorosilicic acid recovered from waste of fertilizer industry –Said KOUNBACH, UM6P - Ben Guerir, Morocco.	Experimental validation of a cooling system to improve the efficiency of the Crystalline Silicon (c-Si) PV module –Charaf Hajjaj, Laboratory of Applied Sciences for the Environment and Sustainable Development, Higher School of Technology of Essaouira, Cadi Ayyad University Essaouira, Morocco.	A parametric approach for Berth Allocation Problem with fuzzy arrival and handling times –Mustapha Oudani, TICLab, International University of Rabat, Morocco.
13:30 - 13:45	Effectiveness of amorphous tricalcium phosphate in immobilizing lead ions - El Mostafa Benharaf, Dept. of Chemistry, University of Abdelmalek Essâadi, Tetouan, Morocco.	Structural and optical proprieties of new Nanocomposites (Polyvinyl alcohol / mixed oxide from LDH: $Mg_2-Al_{0.5}-Fe_{0.5}(CO_3)$ - Abdelmonim Assekouri, Department of Chemistry, Laboratory of Materials, University of Chouaib Doukkali, El Jadida, Morocco.	A comparative study of PV/T hybrid system and the standalone PV system using with different flow rates for better electrical performance – Ayoub Riad, (LabSIPE), National School of Applied Sciences, Chouaib Doukkali University, Morocco.	A Possibility Degree Approach For Sustainable Supplier Selection Problem - Oumaima Zarhaoui, IA Laboratory Faculty of Sciences Moulay Ismail University, Meknes, Morocco.
13:45 – 14:00	Phosphate solubilizing bacteria improve germination and roots length of pea and broad bean - Walid Janati, Faculty of Science and Techniques. Sidi Mohammed Ben Abdellah University, Fez, Morocco.	Extraction and characterization of micro- and nano- structures of cellulose from agricultural residues: eggplant and pepper plants as case study - Adil BAHLOUL, LIMAT, Faculté des Sciences Ben M'sik, Université Hassan II Casablanca, Morocco.	Enhancement of Incremental Conductance MPPT Algorithm Performances Using PID controller - Belghiti Hamid, National School of Applied Sciences El Jadida, LabSIPE, Morocco.	Experimental evaluation of the PV technologies most widespread in the market: case study of real operating conditions - MOUHSSINE RAMI, National School of Applied Sciences El Jadida, Chouaib Doukkali University El Jadida, Morocco.
Moderators:	Professor E. Lamy, UTC, France. Room : Amphi II	Professor A. Boutahar, ENSA El Jadida, Morocco. Room : Grand Amphi	Professor K. Khallaki, ENSA Khouribga, Morocco. Room :C3	Professor E. Messaoud, EHTP Casablanca. Room : C4

14:00 - 15:00	Lunch Break			
15:00 - 15:30	Plenary 3: Professor Muthanna AL-DAHMAN, Nexus between Bio-Energy and CO2 Capture leading to Valorization (Grand Amphi) The Missouri Univ. of Science and Technology (Missouri S&T), United States (USA) Moderator: Professor Gassan HODAIFA, University of Pablo de Olavide, Spain.			
15:30 - 15:45	Multi soil layering system: A future alternative for rural wastewater remediation in the Moroccan context - Ali Mohssine, Laboratory of Process Engineering and Environment, Faculty of Sciences and Technology, University Hassan II, Mohammedia, Morocco.	Development of durable composites based on polysaccharide polymer reinforced with natural fibers - Sara Orkhis, Laboratory of Energetic, Materials and Sustainable Development, ENSAM, Meknes, Morocco.	Impact of energy transition on the composite transportation sustainability index: Case study of Tunisian cities - Emna Khammassi, LEM laboratory, Faculty of Science, Monastir University, Tunisia.	What is the Future of Assembly Lines After the Covid-19? - Salah Eddine Ayoub El Ahmadi, Engineering Sciences Laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco.
15:45 - 16:00	Life cycle analysis applied to environmental processes - GHITA HARRAK, LRSDI, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco.	Synthesis, Structural Characterization and Biological Activities of New Nickel (II) Complex of 3,3'-(1E,1'E)-Ethane-1,2-Diylbis (Azanylylidène)bis(Ethan-1-yl-1-ylidène)Bis(6-Méthyl-2H-Pyran-2,4(3H)-Dione) - Elalami Abouelhaoul, Bioorganic Chemistry Laboratory, Chouaib Doukkali University, Morocco.	Wave Energy Harvesting By Silicone Dielectrique Elastomer - Jamal Elbarmaki, Laboratory of Engineering Sciences for Energy, ENSAJ, Chouaib Doukkali University, Morocco.	The vaccine manufacturing process: An overview - Sanae Allam, LabSIPE, Natl Schl Appl Sci , Sci Engineer Lab Energy, Chouaib Doukkali University, El Jadida, Morocco.
16:00 - 16:15	Bio-based surfactants applications for soil washing remediation process - Edvina LAMY - Université de Technologie de Compiègne, France.	Cellulose Nanocrystals-Filled PVA Nanocomposites as Waterborne Coating of NPK Fertilizer with Slow Release and Water Retention Properties - Ihsane Kassem, Mohammed VI Polytechnic University, Benguerir, Morocco	Cation effect on Structural and optoelectronic properties of CaBS3 (B=Zr, Hf and Sn) for solar cells - Hicham El Kihal, Materials Energy and System Control, FST Mohammedia, University of Hassan II, Casablanca, Morocco.	Towards a new pharmaceutical supply model in Morocco - KENZA TADLAOUI - Laboratoire des techniques industrielles de la Faculté des Sciences et Techniques de Fès, Morocco.
16:15 - 16:30	Moroccan new approach for building materials reuse and recycling - Myriam EL YASSINI, Architecture School - IUR, Morocco.	Nanocellulose reinforced chitosan biocomposites: Properties and their applications in packaging - Mohamed Salim, Mohammed VI Polytechnic University Benguerir, Morocco.	Synchronous discharge inductive circuits - Youssef El Hmamsy, (LabSIPE), National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco.	The Impact of Supply Chain Integration and Supply Chain Risk Management on the Manufacturer's Performances - Nisrine Rezki - ENSA Berrechid, Morocco

16:30 - 16:45	Treatment of Olive Mill Waste Water by Adsorption using Chitosan as a Bio-adsorbent - SABAH Elamraoui, Chouaïb Doukkali University of El Jadida, National School of Applied Sciences, (LabSIPE), Morocco	Crack growth: Comparative study between the experience and the simulation for the 3D printing polymers - Taoufik HACHIMI, Laboratory of Nuclear, Atomic, Molecular, Mechanical and Energetic Physics, Chouaib Doukkali University, El jadida, Morocco	Cellular Polylactic Acid Ferroelectrets: 3D Printed Porosity, Electrical Poling, and Resulting Piezoelectric Response - Ikrame Najihi, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Comprehending the role of the Lewis acid catalyst in cycloaddition between the 3-alkyl-2-vinylindoles with β,γ -unsaturated α -Ketoesters: MEDT Study - Khadija El Idrissi, Molecular Modelling and Spectroscopy Research Team, Faculty of Science, Chouaïb Doukkali University, El Jadida, Morocco
16:45 - 17:00	Synthesis of a novel polyaniline nanocomposite for efficient decontamination of hexavalent chromium in wastewater. - Hind HAJJAOUI, Sultan Moulay Slimane University of Beni Mellal, (SEMA), FP Khouribga, Khouribga, Morocco.	Elaboration and characterization of new nanocomposite materials - Othmane RHALMI - Laboratory of Material's Physical- Chemicals, Department of Chemistry, Faculty of Sciences, University of Chouaïb Doukkali, El Jadida, Morocco	An experimental facility for the study of PEMFC as a micro-combined heat and power system for building applications - Bilal Outirba, Dept. of Aero-Thermo-Mechanics, Université Libre de Bruxelles, Brussels, Belgium	Computational study of [3+2] cycloaddition reactions between 13-azido-11,13 dihydrotomentosine and true alkynes - Sana El Hamidi - University Sultan Moulay Slimane, Morocco.
17:00 - 17:15	Improving quantitative management of groundwater resources by aquifer modelling and artificial recharge - Edvina LAMY - Université de Technologie de Compiègne, France.	Investigation on the propagation of circular beams - Laboratory LPNAMME, Laser Physics Group, Department of Physics, Faculty of Sciences, Chouaïb Doukkali University, El Jadida, Morocco	Modeling, simulation and comparative analysis of a renewable hydrogen production system using Alkaline Water Electrolysis, Proton Exchange Membrane and Solid Oxide Electrolysis processes - Seddiq Sebbahi, Laboratory of Engineering Sciences For Energy, Ecole Nationale des Sciences Appliquées El Jadida, Université Chouaib Doukkali, Morocco.	Diels Alder Cycloaddition Reaction between Butyl Vinyl Ether and 3-arylpyrrolo[1,2-a]quinoxaline-1,2,4(5h)-trione: MEDT study - Soukaina Ameur, Modelling and Spectroscopy Research Team, Faculty of Sciences, El Jadida, UCD, Morocco.
17:15 - 17:30	Sol-gel auto-combustion synthesis of magnesium/copper ferrite nanoparticles: Application in heterogeneous Fenton-like process - Amal Soufi, MRI Lab, Research Group in Environmental Sciences and Applied Materials, FP Khouribga, Morocco.	Effect of the occupation of Ba and Ti sites on the structural and dielectric properties of Gd-doped BaTiO ₃ ceramics - Adil Moutaouaffiq, LPAIS, Faculty of Sciences-DM, USMBA, Fez, Morocco.	A novel fast charge method for Li-ion battery - Sohaib Bouzaid, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco	Molecular mechanism of the formation of 1,3,4-tliadiazoles via [3+2] cycloaddition reaction between nitrilimines and R-thiocamphor: MEDT Study - Fatima ASSERNE - Molecular Modeling and Spectroscopy Research Team, Faculty of Sciences, Chouaïb Doukkali University, El Jadida, Morocco.
Moderator:	Professor R. Nmila, FS El Jadida, Morocco. Room :Amphi II	Professor A. Balhamri, ENSA Berrechid, Morocco. Room : Grand Amphi	Professor T. Mouhib, ENSA Berrechid, Morocco. Room : C3	Professor L. Hammadi, ENSA El Jadida, Morocco. Room : C4
17:30 - 18:00	Coffee break & Posters Session II (ENSAJ HALL)			

18:00 - 18:15	Removal of suspended matters in wastewater by using a sustainable green bio-flocculant - Ali Sbai, Department of chemistry, Research Unit: (2MEMA), University of Nouakchott Al-Aasria, Nouakchott, Mauritania.	Mechanical behavior of a layered high voltage underground electrical cable - Nassima Naboulsi, Laboratory of Nuclear, Atomic, Molecular, Mechanical and Energetic Physics, Chouaib Doukkali University, El jadida, Morocco	Solar Radiation Forecasting Based on Several Combinations of Meteorological Data Using Artificial Neural Network - Brahim Belmahdi, Energetics laboratory, ETEE, Faculty of Science Abdelmalek Essaadi Tetouan, Morocco.	A combined molecular dynamic simulation, DFT calculations, and experimental study of the Eriochrome Black T dye adsorption onto chitosan in aqueous solutions. - Malika Khnifira, Sultan Moulay Slimane University, (SEMA), FP, Khouribga, Morocco.	Effect of non-toxic Solvent on the Conformation of Poly(vinylidene fluoride) - Hajar REJDALI, Chouaib Doukkali University of El Jadida, Natl Sch Appl Sci, Sci Engineer Lab Energy, El Jadida, Morocco.
18:15 - 18:30	Lactic bacteria from moroccan biotopes: characterization and application in biotechnological valorization processes - Mounir EL BOUJAMAAL, BIOMARE Laboratory, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Study the damage of CPVC specimens subjected to tensile tests at various temperatures - Abderrahim Khtibari, Condensed Matter Physics Laboratory (LPMC), Ben M'Sick Faculty of Sciences, Hassan II University, Casablanca, Morocco.	Comparative Study of Li-ion Battery Modeling Based on Different RC Network - Khaoula Boujlili, Laboratory of Engineering Sciences for Energy (LabSIPE), National School of Applied Sciences EL Jadida, Chouaib Doukkali University, Morocco.	Theoretical study of the regioselectivity of the 1,3-dipolar cyclo addition in solution using DFT method - Adil Khannous, Molecular Modeling and Spectroscopy Research Team, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Photopyroelectric PPE Method - ALI ABOUAIS, Chouaib Doukkali University of El Jadida, National School of Applied Sciences, Engineering Science for Energy Lab, El Jadida, Morocco
18:30 - 18:45	Valorization of a biomaterial of animal origin in the discoloration of textile rejects - Aarfane Abdellatif - École Supérieure d'Éducation et de Formation, Université Chouaib Doukkali, El Jadida, Morocco.	Characterization of physico-chemical properties and concentration status of sand on the Marine coast line of Safi-El Jadida in Morocco - Youssef Hairch, Laboratory of Innovation in Science, Technologies and Modeling, University of Chouaib Doukkali, El Jadida, Morocco.	A survey on the energy consumption of battery electric vehicles - Amine Jraif, Chouaib Doukkali University, Natl Schl Appl Sci, Sci Engineer Lab Energy, El Jadida, Morocco.	Effect inhibition of Triphenylimidazole Derivatives on the corrosion of mild steel in hydrochloric acid: (DFT, MC and MD simulations) - Abdelmalek Matine, Molecular Modeling and Spectroscopy Research Team, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Study of the various forms of corrosion of aluminium alloys 2024 - Fatima Ezzohra El Garchani, Laboratory of materials, metallurgy and process engineering ,National School of Arts and Crafts, Meknès, Morocco.
18:45- 19:00	Visible light absorption enhancement effect of Ag ₃ PO ₄ by Nickel (II) grafting on the surface - Habiba KHIAR, Mutidisciplinary Research and Innovation Laboratory (MRI), (SEMA), Sultan Moulay Slimane University of Beni Mellal, FP Khouribga, Morocco.	First investigation of the structural and optoelectronic properties of Al and Ni co-doped SnO ₂ thin films deposited by the sol-gel spin coating method for PV solar cell applications - EL Mahdi Bouabdalli, (LabSIPE), National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco	Li-ion State of charge estimation based on neural network models and Sequential Forward Floating Selection - anass elachhab, National school of Applied Sciences El Jadida, LabSIPE, Morocco.	Theoretical insight into electronic and photoelectrochemical properties of thiophene-based organic molecules for solar cells - El Ghazali Ahlam, Dept. of Chemistry, University of Sultan Moulay Slimane, Beni Mellal, Morocco.	atomic force microscopy study of substrate effects on structural properties of DCM thin films prepared by PVD - Amina Laouid, Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University, Torun, Poland.

19:00 – 19:15	Screening et test de performance industrielle des levures, des bactéries lactiques et acétique de panification issues des levains traditionnels Marocains - Anas Raffak, Filière Industries Agro-alimentaires (IAA), Département Sciences des Aliments (SAN), Laboratoire Biotransformation, Institut Agronomique et Vétérinaire Hassan, Rabat, Morocco.	Vibrational Spectroscopy and Electrochemical study of AMP2O7 - Hammadi El Harmouchi, Faculty of Science, Ibn Tofail University, Kenitra, Morocco		Theoretical study of the preparation of 1,4-benzodiazepines fused to benzimidazole by the reaction of two benzimidazole derivatives and terminal alkylepoxides - Mohamed Abdoul-Hakim, Analytical Chemistry and Environmental Sciences Team, Department of chemistry, Faculty of Sciences, University of Chouaib Doukkali, El Jadida, Morocco.	Application of UF adhesives containing unmodified and phosphate-modified cellulose microfibers in the manufacturing of particleboard composites - Anass Ait Benhamou, (PCMA), Faculté Polydisciplinaire, Université Sultan Moulay Slimane, Béni-Mellal, Morocco
19:15- 19:30	Biomaterials as adsorbents for chemical removal from water - An overview - Wafae ABBACH - LRSDI, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco.	Elaboration, characterization and investigation of novelty epoxy resin as corrosion protection for carbon steel in 1M HCl solution - Mouna Azogagh, Faculty of Science IBN tofail uneversity Kenitra, Morocco.		Theoretical Survey of Diels-Alder between Acrylic Acid and Isoprene Catalyzed by the Titanium Tetra-chloride - Rajaa Zahnoune, Molecular Modeling and Spectroscopy Research Team, Faculty of Sciences, Chouaïb Doukkali University, El Jadida, Morocco.	Beneficiation of phosphate ore by flotation using soybean and sunflower oils as collector: A statistical design approach - Zohra Farid, Multidisciplinary Research and Innovation Laboratory, (SEMA), University of Sultan Moulay Slimane, FP Houribga, Morocco.
Moderator:	Professor R. Nmila, FS El Jadida, Morocco. Room : Amphi II	Professor A. Balhamri, ENSA Berrechid, Morocco. Room : Grand Amphi	Professor T. Mouhib, ENSA Berrechid, Morocco. Room : C3	Professor L. Hammadi, ENSA El Jadida, Morocco. Room : C4	Professor S. Laasri, ENSA El Jadida, Morocco. Room : Amphi I

May 12, 2022

09:00 - 09:30	<p align="center">Plenary 4: Professor Edvina LAMY, Microbial contamination: understanding of processes leading to groundwater pollution and solutions for decision support on water remediation strategies (Grand Amphi) University of Technology of Compiègne , France Moderator: Professor Muthanna AL-DAHMAN, Missouri S&T Univ., United States (USA)</p>			
09:30 – 10:00	<p align="center">Plenary 5: Professor Gassan HODAIFA Integration of advanced oxidation technologies in the bioprocesses: case of wastewater treatment (Grand Amphi), University of Pablo de Olavide, Pablo de Olavide, Spain. Moderator: Professor Muthanna AL-DAHMAN, Missouri S&T Univ., United States (USA)</p>			
10:00 - 10:15	<p>A green bioassay experiment using an invasive plant extracts for controlling Microcystis toxic blooms in water bodies - Moutasser Douma, Natural Resources Engineering and Environmental Impacts Team, Multidisciplinary Research and Innovation Laboratory, Polydisciplinary Faculty of Khouribga (FPK), Sultan Moulay Slimane University, Khouribga, Morocco.</p>	<p>The investigation of heat transfer in a Hybrid Solar Collectors - Khadija Chakar, 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, Chouaib Doukkali University, El Jadida – Morocco</p>	<p>ANN Li-ion modeling based on different training algorithms - Abdelhakim Tabine, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>	<p>A framework for efficient and sustainable construction: Integrating Lean Construction and Building Information Modelling - Khalil IDRISSE GARTOUMI, Ecole Nationale Supérieure d'Arts et Métiers - Université Moulay Ismail, Morocco.</p>
10:15 - 10:30	<p>A hybrid system combined the infiltration-percolation and solar distillation process to treat olive mill wastewater and energetic valorization of the residue - Soufiane BAKRI ALAOUI, Université de Technologie de Compiègne, France.</p>	<p>Vibration control of an optical arm - Nada Cherkaoui Jaouad, Chouaib Doukkali University of El Jadida, Natl Sch Appl Sci, LabSIPE, El Jadida, Morocco.</p>	<p>Comparative study of nonlinear Li-ion battery model based on neural network - Amina El Harchi, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>	<p>Benders Decomposition for solving Sustainable Hyperconnected Production Problem - Charifa FERGANI, LabSIPE, ENSAJ, Chouaib Doukkali University, Morocco.</p>
10:30 - 10:45	<p>Activation effect on the structural and textural properties of the commercial bentonite; activity in the ethanol dehydration reaction. - Samira Najah El Idrissi, Laboratoire de l'Eau e de</p>	<p>Experimental and computational analysis of the natural dye extracted from Pomegranate for DSSC - Rania ANOUA, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences,</p>	<p>Lithium-Ion Batteries Modeling Using Hammerstein Wiener Using various IO nonlinearities - Meriem Mossaddek, Laboratory of Engineering Sciences for Energy (LabSIPE), National School of Applied Sciences, Chouaib</p>	<p>Bibliometric Review of Maintenance Using Industry 4.0 Technologies - Safaa Essalih, Industrial Technologies and Services Laboratory, Higher School of Technology, University of</p>

	l'Environnement, Faculté des sciences Université Chouaib Doukkali, El-Jadida, Morocco.	Chouaib Doukkali University, El Jadida, Morocco.	Doukkali University, El Jadida, Morocco.	Sidi Mohammed Ben Abdellah, Fez, Morocco.
10:45 - 11:00	Adsorption du Cadmium par un hydrogel à base de polyacrylamide et modélisation mathématique des résultats. - Imane Lebkiri, Laboratory of Organic Synthesis and Extraction Processes – Department of Chemistry – University Ibn Tofail – Kénitra, Morocco.	Study of LiFePO ₄ as cathode materials from Li-ion batteries applying density function theory - Nora Hariti, LabSIPE, National school of Applied Sciences El Jadida, UCD, Morocco.	Penstock for pumped storage systems: State of the art - Elmansour Jamal, LabSIPE, University of Chouaib Dokkali, EL Jadida, Morocco.	Lean Six Sigma tools for Moroccan Manufacturing Sustainability: An Exploratory Study - Ikram Ait Hammou, LERSEM, ENCG El Jadida, Chouaib Doukkali University, Morocco.
11:00 - 11:15	Adsorption Optimization of phenolic compounds on sawdust and red clay: phytotoxicity evaluation on seed germination of durum wheat (<i>Triticum turgidum</i> L. var Durum) and white bean (<i>Phaseolus vulgaris</i> L.) - Fatima Elayadi, (LabSIPE), National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Zn-Cr Layered Double Hydroxide Intercalated with Dodecylsulfate: Preparation, Characterization and Electric Properties - Wafaa Elhatimi, Laboratory of Materials Physical-Chemicals, Department of Chemistry, Faculty of Sciences, University of Chouaib Doukkali, Morocco.	Road energy harvesting by setting up a dynamic weighing system using piezoelectric materials - Najoua Fangachi, Chouaib Doukkali University, Ecole Nationale des Sciences Appliquées (ENSA), Laboratoire des Sciences d'Ingénierie Pour l'Energie (LabSIPE), El Jadida, Morocco.	Prioritizing Institutional Pressures, Practices and Corporate Performance for Green Supply Chain Management in Emerging Markets: Perspectives from Academia and Industry - Ali Hebaz, LERSEM, ENCGJ, University of Chouaib Doukkali, El Jadida, Morocco.
11:15 – 11:30	Allelopathic activity of crude extracts of two brown algae (Genus <i>Cystoseira</i>) from the coast of El Jadida on the germination and growth of lettuce and radish. - Bouchra EL AISSAOUI, Biotechnology and Valorization of Plant Resources: Algae and Plants (BVRV-AP), Chouaib Doukkali University-Faculty of Sciences El Jadida Morocco.	The comportment of circular beams through turbulent biological tissues - Salma Chib, LPNAMME, Université Chouaib Doukkali El Jadida, Morocco.	Thermal energy harvesting of the perovskite single crystals Pb(Mg _{1/3} Nb _{2/3}) _{1-x} Ti _x O ₃ - Amine Alaoui Belghiti, University Chouaib Doukkali, Engineering Sciences for Energy Lab, National School of Applied Sciences of El Jadida, Morocco.	Survey: Smart Organic Food Supply Chain - Ikrame Hemmoud, Natl Sch Appl Sci, Sci Engineer Lab Energy, Chouaib Doukkali University of El Jadida, Morocco.
Moderator:	Professor L. Zhouri, EST SB, Morocco. Room : Amphi II	Professor M. El Achaby, UM6P Benguerir, Morocco. Room : Grand Amphi	Professor M. Louzazni, ENSA El Jadida, Morocco. Room : C3	Professor M. Oudani, UIR Rabat, Morocco. Room : C4

11:30 - 12:15	Coffee Break & Posters session III (ENSAJ HALL)				
12:15 - 12:30	Amélioration du traitement des eaux usées par la technique des filtres à roches (Rock Filter) –Retour d'expérience d'une station d'épuration de type lagunage naturel - Mohamed El-Hannani, Univ. Sultan Moulay Slimane, (LIPIM), ENSA Khouribga, Morocco.	Compensation behaviors and hysteresis loops in a ferrimagnetic hexagonal nanotube with a Core-Shell structure Mean-field study - Yahya Al Qahoom, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Investigation of hydrogen storage properties of metallic and complex hydride: ab-initio insights - Abdelmajid Assila, Chouaib Doukkali University of El Jadida, National School of Applied LabSIPE, El Jadida, Morocco.	Amplitude of light scattering by horizontally oriented prismatic particles in the Wentzel-Kramers-Brillouin approximation - El Mostafa Tari, Laboratory of Theoretical Physics, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Study of the adsorption of Textile Dye Yellow 145 contained in aqueous phase using coal fly ash: Kinetic, isotherm and thermodynamic studies - Zari Rkia, Innovative Materials, Energy and Sustainable Development Laboratory, Cadi Ayyad University, Marrakech.
12:30 - 12:45	Better filterability and reduced radioactivity of phosphogypsum during phosphoric acid production in Morocco using a fly ash waste and pure silica additive - Fatima Ezzahra Arhouni, Chouaib Doukkali University, Faculty of Sciences, El Jadida.	Corrosion inhibition of copper in acidic solution by CHAMAEROPS HUMILIS L extract as a green inhibitor - Dounia Mhanni, Advanced Materials and Process Engineering Laboratory, Faculty of Sciences Ibn Tofaïl University, Kénitra, Morocco.	Magnetic properties of mixed spin-3/2 and spin-1/2 Ising model on a hexagonal structure: Monte Carlo-Mean Field Treatment - El Mostafa Jalal, Equipe de Physique Théorique, L.P.M.C., Faculté des Sciences, Université Chouaib Doukkali, El Jadida, Morocco.	New π -conjugated acceptor – donor-acceptor groups of thiophene: TD-DFT Study - Zouitina Said, ERCAM, Polydisciplinary Faculty, Sultan Moulay Slimane University, Beni-Mellal, Morocco.	Study of adsorption mechanism of Malachite Green (MG) and Basic Yellow 28 (BY28) onto smectite rich natural clays (Ghassoul) using DFT/B3LYP and DOE/FFD - Aicha Naboulsi, Laboratory of Analytical and Molecular Chemistry, University of Cadi Ayyad faculty Poly-disciplinary, Safi.
12:45-13:00	Case study of concept for introducing aluminum cookware into Life Cycle Assessment - Zineb El Haouat, Industrial Technologies and Services Laboratory, University of Sidi Mohamed Ben Abdellah, Fez.	Effect of ZrO ₂ addition on electrical and mechanical properties of chlorophosphate glasses - Leila Ouachouo, (LSMI), Materials and Processes Department, ENSAM Meknes, University of Moulay Ismail, Meknes, Morocco.	Magnetic Properties of a Cylindrical Nanotube with Spin-1/2 Core and Spin-3/2 Shell - Nabil Hachem, Faculty of Sciences. Chouaib Doukkali University, El Jadida, Morocco.	Operating conditions effects on water gas shift reactor behavior: Numerical study - Wail El Bazi, Laboratory of Process Engineering, Computer Science and Mathematics, ENSA, Sultan Moulay Slimane University, Khouribga.	Sustainable location of urban farming in the context of Agriculture 4.0 - Doha Haloui, IA Laboratory Faculty of Sciences Moulay Ismail University, Meknes, Morocco.
13:00 - 13:15	Catechol-iron complex adsorbent elaborated based on pyrrhotite ash waste: Application for RY 145 removal, RSM optimization and isotherm and kinetic study - Badreddine Hatimi, Laboratoire de Chimie Organique Bioorganique et Environnement, Université Chouaib Doukkali, El Jadida.	Elaboration, crystal structure, optical and electrical properties of perovskite ceramics Ba _{1-x} BixTi _{1-x} MnxO ₃ - Zakaria Chchiyai, Hassan First University of Settat, FST, Rayonnement-Matière et Instrumentation, S3M, Settat, Morocco.	Mixed-alkali Effect on the Structural Properties in Phospho-Silicate Bioactive Glasses: A Molecular Dynamics Simulations Study - Youssef Ouldhnini, LS2ME, Faculté Polydisciplinaire Khouribga, University Sultan Moulay Slimane, B.P 145, 25000 Khouribga	Dynamic and Kinematic Viscosities, Densities and Refractive Indices of Dibutyl Ether + Methylcyclohexane at (298.15 and 313.15) K: Experimental Data and PC-SAFT EoS Modeling - ilham abala, Escuela Politécnica Superior, University of Burgos, Spain.	The carbon footprint effect of an adsorption process on the environment - Ayoub Achbaro, MST, GL-DDIT, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco.

13:15 - 13:30	Decolourization using nanomaterial powder - Jihane Kouar, Department of Chemistry and Valorisation, (LIPE), Higher School of Technology of Casablanca, Hassan II University of Casablanca, Morocco	Experimental and computational investigations on the anti-corrosive and adsorption behavior of benzimidazole derivative on C38 steel surface in acidic medium - Nadia Jaafar, (E2MS) team. Faculty of Science, Chouaib Doukkali University, El Jadida, Morocco.	Mixed B-site Chalcogenide perovskites for Solar Energy Harvesting: first Principles study - CHAMI Rachid, LEPE, High school of technology, Hassan II University, Casablanca, Morocco.	Real Time State of Charge Monitoring of a Li-Ion Battery for Robotic Applications - El Mehdi Laadissi, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Transformation of phosphogypsum by soft chemistry into alkaline sulphates from alkaline hydroxides - ILHAM ZDAH, Laboratory of Physical Chemistry of Materials (LPCM), Faculty of Science, El Jadida, Morocco.
13:30 - 13:45	Direct catalytic oxidation of hydrogen sulfide to sulfur and water - Abdelilah Tamin, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences of El Jadida, Chouaib-Doukkali University, El Jadida, Morocco.	Hot airflow deposition: Toward high quality MAPbCl ₃ perovskite films - Asmae EL-Yahyaoui, Laboratory of Spectroscopy, Molecular Modeling, Materials, Nanomaterials, Water and Environment, ENSAM, Mohammed V University, Rabat, Morocco.	Mixed metal oxides derived from nitrate intercalated Mg-Al Layered double hydroxides with different Mg/Al molar ratios: Synthesis, characterization and optical properties - Redouane Lahkale, Laboratory of Material's Physical- Chemicals, Faculty of Sciences, University of Chouaib Doukkali, El Jadida, Morocco.	Use of Artificial Intelligence for the Modelling of Drying - Fouad Ait Hmazi - (LNAMPME) Chouaib Doukkali University, Morocco.	Use of Calcium Phosphates to Remove Heavy Metals from Aqueous Solutions - Brahim Lizoul, University Chouaib Doukkali, Faculty of Sciences, Department of Chemistry, El Jadida, Morocco.
13:45 - 14:00	Dye - Carbohydrate, a beautiful combination for a sustainable development - Jalal Isaad, LRSDI, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco.	Hexagonal Ising nanotube with spin-1/2 core and spin-2 Shell structure: Monte Carlo and Mean Field Treatments - Karima El kihel, Team of Theoretical Physics, Laboratory L.P.M.C., Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Tricalcium phosphate production by Neutralization method: Optimization using response surface methodology - Abdelaziz Elouahli, Team of Energy, Materials and Environment, Faculty of Sciences, University Chouaib Doukkali, El Jadida, Morocco.	Towards the circular economy: Prediction of energy content of municipal solid wastes as a renewable energy resource by artificial neural network - Fatima Ezzahra Yatim - Energy Laboratory, Abdelmalek Essaadi University, Physics department, Faculty of Sciences Tetouan, Morocco.	Valorisation of a Moroccan bentonite clay for the catalytic ethanol dehydration - Mariem Boukhadara, Laboratoire de l'Eau et de l'Environnement, Université Chouaib Doukkali, El Jadida, Morocco.
Moderator:	Professor L. Zhouri, EST SB, Morocco. Room : Amphi II	Professor M. El Achaby, UM6P Benguerir, Morocco. Room : Grand Amphi	Professor M. Siniti, FS El Jadida, Morocco. Room : C3	Professor M. Louzazni, ENSA El Jadida, Morocco. Room : C4	Professor N. Barka, FP Khouribga, Morocco. Room : C5
14:00 - 15:00	Lunch Break (ENSAJ HALL)				
15:00 - 15:15	Crataegus Oxyacantha extracts as biostimulants to enhance salt tolerance in tomato plants. - Imane Naboulsi, AgroBioSciences Program, Mohammed VI Polytechnic	New Green Application of Titanium Complex: Catalytic Oxidation of Aldehydes in the Presence of Molecular Oxygen - Hajar ROUIBAA,	Highly sensitive detection of nitrofurazone using an electrochemical sensor based on silver nanoparticles modified carbon electrode. Application :	Mechanism Of Hydroxyapatite Precipitation At Normal Temperature And High Raw Material Concentration - Fatima Abida, Team of Energy,	Molecular dynamics simulation of the temperature and molecular weight impacts on the physical properties of the crystalline regioregular P3HT - Soukaina Louerdi, ENSA Berrechid, Hassan First University of Settat,

	University Benguerir, Morocco.	Dept. of Chemistry, University Abdelmalek ESSAADI, Tétouan, Morocco.	Milk, Human Urine and Tap Water - Jallal Zoubir, Univ. Ibn Zohr, Equipe de Catalyse et Environnement, Faculté des Sciences, Agadir, Morocco.	Materials and Environment, Department of Chemistry, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Morocco.
15:15 - 15:30	Effects of chitosan coating on post-harvest life and quality of strawberry fruits - Abir El-Araby, Functional Ecology and Environment Engineering Laboratory, Faculty of Science and Technology. Sidi Mohamed Ben Abdellah University Fez, Morocco.	Numerical modeling of partial dam-break over mobile bed: very fine sand case - SANAE JELTI, M and E Laboratory, faculty of sciences, Mohammed First University, Oujda, Morocco.	Novel Synthesis And Characterisation Of Crystalline Fluorapatite From Phosphogypsum - Hamid Nasrellah, Ecole Supérieure de l'éducation est de la Formation, Université Chouaib Doukkali, Morocco.	Optimization and Aerodynamic Simulation of a 2D Profile of a Wind Turbine Blade - Tarik RAFFAK, Hassan First University of Settat, Ecole Nationale des Sciences Appliquées, LISA, Berrechid.	Opuntia ficus indica seeds extract as a green corrosion inhibitor in 3.5% NaCl ; Electrochemical and DFT studies - YASMINA EL BOUAZZAOUI, Advanced Materials and Process Engineering Laboratory, Faculty of Sciences Ibn Tofail University, Kénitra, Morocco.
15:30 - 15:45	Evaluation of the Corrosion Inhibiting Efficiency of Schiff-base Heterocyclic Inhibitors against Corrosion of Aluminum in Hydrochloric Acid Medium: Theoretical Approach - Ali Barhoumi, Molecular Modeling and Spectroscopy Research Team, Faculty of Science, Chouaib Doukkali University, El Jadida, Morocco.	Photocatalytic degradation of methyl orange by a catalyst supported on a Natural Clay using Box-Behnken Design - Meryem ASSIMEDDINE, Sultan Moulay Slimane University of Beni Mellal, Multidisciplinary Research and Innovation Laboratory, Research Group in Environmental Sciences and Applied Materials (SEMA), FP Khouribga, Morocco.	Performance of Lignin as a Green Promising Coating Material for Slow-Release DAP Fertilizer - Fatima-Zahra ELBOUCHTAOUI, Mohammed VI Polytechnic University, Materials Science, Energy and Nanoengineering Department (MSN), Benguerir, Morocco.	Photocatalytic decomposition of Methylene blue dye using sand-graphite composite under visible light irradiation - Soufiane Hmamouchi, Advanced Materials and Process Engineering Laboratory, Faculty of sciences, University of Ibn Tofail, Kenitra, Morocco.	Renormalization group technic to topology of phase diagrams in the semi-infinite system of spin-3/2 at surface and spin-1/2 at bulk - Omar Elgarraoui, Team of Theoretical Physics, Laboratory L.P.M.C., Department of Physics, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.
15:45- 16:00	Evaluation of the effectiveness of Crataegus oxyacantha as an ecological steel corrosion inhibitor - Fatima Zehra Bouchmiaa, Laboratory of Organic-Bioorganic Chemistry and Environment, Department of Chemistry, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.	Preparation and characterization of a hybrid monocrystal and its application as a heterogeneous catalyst in the synthesis of benzoxathene derivatives. - Haddou Anahmadi, Laboratory of Organic Chemistry, Catalysis and Environment, Department of Chemistry, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco.	Phase diagrams and magnetic properties of a ferrimagnetic semi-infinite system: A Mean Field Treatment - SAADI Hasnae, Laboratoire de la physique de la matière condensée, faculté des sciences El Jadida, Morocco.	Piezoelectric and Electromechanical Characterizations of the Cellular Polymers for Mechanical Energy Harvesting - Chouaib Ennawaoui, Laboratory of engineer science for energy, National Engineering School of Applied Sciences. Chouaib Doukkali University, El Jadida;	Reversible magnetocaloric effect at low temperature - BOUTAHAR ABDERRAHIM, Laboratoire des Sciences de l'Ingénieur pour l'Energie. Ecole Nationale des Sciences Appliquées d'El jadida, Université Chouaib Doukkali - El Jadida, Morocco.

16:00- 16:15	Experimental adsorption, kinetics and thermodynamics of a cationic dye by raw and phosphoric acid activated pine bark - Fatima Zahra Bouhassane, Laboratory of Advanced Materials and Process Engineering, Department of Chemistry, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco	Pretreatment of 54% in P2O5 industrial phosphoric acid with low magnesium calcium rock: modeling and optimization - Abderrahim Najah ELIDRISSI, Laboratory of Physical Chemistry of Materials (LPCM), Department of Chemistry, Faculty of Sciences, Chouaïb Doukkali University, Morocco	Stress Intensity Factor of the Smart Biomaterial - ABDELAZIZ ESSAKHI, Laboratory of Renewable Energie and System Dynamics (LERDYS) Faculty of Sciences Ain Chock, Casablanca, Morocco.	Structural and Electrochemical Properties of Novel Phosphate-Based Compounds as Negative Electrode Materials for Sodium-ion Batteries - Nour el hoda BOUFTILA, Laboratory of Applied Physics, Informatic and Statistics, Sidi Mohamed Ben Abdellah University, Dhar El Mahraz Faculty of Science (FSDM) Fez.	TiO2 oxide thin films prepared by sol-gel spin-coating method - OTMANE Sadek, Laboratory of Engineering Sciences for Energy, National School of Applied Sciences El Jadida, Chouaib Doukkali University El Jadida, Morocco.
16:15- 16:30	Green surfactants for soil washing remedial technologies purposes: dynamic transport and pollutant desorption - Edvina LAMY, Université de Technologie de Compiègne, France.	Recovery of Rare Earth Elements from Phosphoric Acid Using Ion Exchange Resin - Anasse Sraidi, Department of Chemical and Biochemical Sciences, Green Process Engineering (CBS). Mohammed VI Polytechnic University, Ben Guerir, Morocco.	Study of the Displacement of the Tympanic Membrane of a 2D Model of the Human Ear Equipped with Hearing Protection - Penpen Komgue Lucrece Barbara, Laboratory of Engineering Sciences for Energy, ENSAJ, UCD, El Jadida, Morocco.	Structural characterization and photocatalytic activity of Ferroelectric solid solution $\text{Li}_{1-x}\text{NbSm}_{1/3}\text{xO}_3$ - Driss Mazkad, Laboratory of Spectroscopy, Molecular Modeling, Materials, Nanomaterials, Water and Environment, Materials for Environment Team, ENSAM, Mohammed V University in Rabat.	Transport phenomenon in Dirac semimetal Cd_3As_2 in the variable-range-hopping regime - Limouny Lhoussine, ENIM, LSTI Physics Department, Faculty of Sciences and Technics, University Moulay Ismail, Errachidia, Morocco.
16:30- 16:45	Highly efficient removal of Alizarin Yellow R dye from an aqueous solution using a synthesized hydrocalumite (CaAl-LDH-NO_3) - ILYAS CHOUAYBI, Laboratory of Physical-Chemistry of Materials, Department of Chemistry, Chouaïb Doukkali University, Faculty of Sciences, El jadida, Morocco.	Recovery of Co (II) ions from Li-Ion Batteries by the polymer inclusion membranes - ZAKARIA HABIBI, Materials Engineering for Environment and Valorization Laboratory (GeMEV), Ain Chock Faculty of Sciences, Hassan II University, Casablanca, Morocco.	Thermal Treatment and Physico-chemical Characterization of Snail Shells Powder SSP. - MOSTAPHA KARAOUI, Team of Innovative Materials and Mechanical Manufacturing Processes, ENSAM, University Moulay Ismail, Meknes, Morocco.	the study of a mixed spin-1/2 and spin-5/2 hexagonal nanotube with core-shell structure using Monte Carlo simulation. - Rachid Aharrouch, L.P.M.C., Faculté des Sciences, Université Chouaib Doukkali, El Jadida.	Structure and ionic conductivity of lithium titanate electrolyte for all-solid state Li-ion batteries - Abdelhak Chouiekh, Laboratory of Applied Physics Informatics and Statistics (LPAIS), FSDM, Fez, Morocco.
16:45- 17:00	Industrial wastewater treatment using conventional methods and impedance spectroscopy - ElMokhtar ElHafidi, Laboratory of	Removal Enhancement of Acid Orange 7 Dye by Adsorption onto Bifurcaria bifurcata Algae Activated Carbon - Said Bouzikri,	The synthesis of novel oxadiazole compounds - Atif Assiya, Bioorganic chemistry laboratory, faculty of sciences, Chouaib doukkali El jadida,	Synthesis, structural, optical and dispersion parameters of La-doped spinel zinc ferrites $\text{ZnFe}_{2-x}\text{La}_x\text{O}_4$ ($x = 0.00, 0.001, 0.005, 0.01$ and	Study of percolation-type of transition in high-mobility Si MOSFETs - Said Dlimi, Dept. of Physics, Faculty of Sciences, University Chouaib Doukkali, El jadida, Morocco.

	Engineering Science for energy (labSIPE) ENSA, University Chouaib Doukkali, El-Jadida, Morocco.	Laboratory of Organic Chemistry, Bioorganic and Environment (LCOBE), University Chouaïb Doukkali, Faculty of Sciences, El Jadida, Morocco.	Morocco.	0.015) - Lemziouka Hamane, Renewable Energy Laboratory and Dynamic Systems, Faculté des Sciences Ain-Chock, Université Hassan II de Casablanca, Morocco, LREDS, Department of Physics, Faculty of Sciences Ain-Chock, Hassan II University-Casablanca.	
17:00- 17:15	Investigation of catalytic performance of Bis [hydrazinium (1+)] hexafluoridosilicate: (N ₂ H ₅) ₂ SiF ₆ in synthesis of 2,4,5-triaryl-1H-imidazoles and 2,3-dihydroquinazolin-4 (1H)-ones under Green conditions - Fatima Elhajri, Laboratory of Organic Chemistry, Catalysis and Environment, Faculty of Sciences, Ibn Tofail University, Kenitra.	Removal of a reactive dye (RR195) in a continuous-flow single-channel reactor functioning in closed-circuit using electrocoagulation - Raowia Lamhar, Laboratory of Process and Environmental Engineering, Hassan II University of Casablanca, Morocco	Vibrational and electrochemical study of AMPO ₄ - Oumaima Moumouche, Faculty of Science, Ibn Tofail University, Kenitra, Morocco.	n-Al Layered Double Hydroxide Intercalated with Nitrate Ions: Synthesis, Characterization and Investigation of Light Absorption Properties - Khadija Benzarouala, Laboratory of Material's Physical- Chemicals, Faculty of Sciences, University of Chouaïb Doukkali, El Jadida.	ZnO-Zn ₂ TiO ₄ mixed metal oxides derived from LDHs nanostructured for caffeine photocatalytic degradation: In-situ ultrasound-induced polyol-medium design - Fatima zahra JANANI, Sultan Moulay Slimane University of Beni Mellal, Multidisciplinary Research and Innovation Laboratory, FP Khouribga, Morocco.
17:15- 17:30	Isolation and characterization of aflatoxin producing fungi on selected Moroccan food commodities - NYSRINE MANNANI, Chouaib Doukkali University, Faculty of Sciences, BIOMARE Laboratory, El Jadida, Morocco.	Removal of Copper, Nickel and Chromium by electrocoagulation using aluminum electrodes - Ilou Mohamed, Laboratory of Energetics, Materials and Environment, Faculty of Sciences El Jadida;			Microstructure, piezoelectric and dielectric properties of PMN-PT ceramics near morphotropic phase prepared by columbite method - Ikram Belkoufa, LabSIPE, Ecole Nationale des Sciences Appliquées, University Chouaib Doukkali, El Jadida, Morocco
Moderator:	Professor S. Touil, ENSA Khouribga Room : Amphi II	Professor G. Hodaifa, University of Pablo de Olavide, Spain. Room : Grand Amphi	Professor F. Belhora, ENSA El Jadida, Morocco. Room : C3	Professor A. Boutahar, ENSA El Jadida, Morocco. Room : C4	Professor T. Raffak, ENSA El Jadida, Morocco. Room : C5
17:30- 18:30	Coffee Break & Posters Session IV (ENSAJ HALL)				
18:30- 19:00	Closing Ceremony (ENSAJ HALL)				

May 13, 2022	
06:00	Departure From University Chouaib DOUKKALI Presidency
07:00 - 08:30	Breakfast Sidi Bennour
10:00 - 10:15	Welcoming Participants
10:15 - 13:00	Visit of UM6P locals
13:00 - 14:30	Lunch Break
15:00 – 16:30	Visit of Green Energy Park
16:30 – 18:30	Visit of experimental Farm

Theme 1	Environnement, Valorization and Recycling Proces
Theme 2	Materials: Conception, Elaboration and Valorization
Theme 3	Energy and Processes Development
Theme 4	Supply Chain Modeling & Simulation
Theme 5	Towrds a Sustainable and Competitive

Posters Session I

1	<p>Raffak Anas Comparative study of bread-making sourdough stabilization processes: Fresh, dried, freeze-dried and liquid sourdough Filière Industries Agro-alimentaires (IAA), Département Sciences des Aliments (SAN), Laboratoire Biotransformation Institut Agronomique et Vétérinaire Hassan II Rabat, Morocco.</p>
2	<p>Bouchmiaa Fatima Zehra Corrosion inhibition and plant extract adsorption activities on carbon steel in an acidic medium Laboratory of Organic-Bioorganic Chemistry and Environment, Department of Chemistry, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
3	<p>Ghazi Inass Corrosion Inhibition of Carob Pod Pulp (<i>Ceratonia Siliqua L.</i>) on Carbon Steel Surface C38 in Hydrochloric Acid Dept. of Chemistry, University of Chouaib Doukkali, El Jadida, Morocco.</p>
4	<p>Mirinioui Amine Corrosion Inhibition of Polyphenolic Extracts of pomegranate (<i>Punica granatum L.</i>) on Carbon Steel Surface C38 in 1M HCl medium Laboratory of Coordination and Analytical Chemistry, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
5	<p>Bajjou Yousra La gestion environnementale de la logistique inverse Laboratoire Modélisation et Optimisation des Systèmes Industriels et logistiques, Université Abdelmalek ESSAADI – ENSA, Tétouan, Morocco.</p>
6	<p>Belkoufa Ikram Combining magnetocaloric and electrocaloric effects in lead free multiferroic ceramics to achieve a broad refrigeration temperature region. LabSIPE, Ecole Nationale des Sciences Appliquées, University Chouaib Doukkali, El Jadida, Morocco.</p>
7	<p>Bahsis Lahoucine Copper(I)-Chitin Catalyst for Click Chemistry Azide-Alkyne Cycloaddition Type Reactions in Water Laboratoire de Chimie de Coordination et d'Analytique, Faculté des Sciences d'El Jadida, UCD, El Jadida, Morocco.</p>
8	<p>Abouais Ali Crystal Growth by Vertical Bridgman Technique Engineering Science for Energy Lab, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
9	<p>Rhalmi Othmane Development of biodegradable bioplastic films from nanoparticle reinforced starch Laboratory of Material's Physical- Chemicals, Faculty of Sciences, University of Chouaib Doukkali, El Jadida, Morocco.</p>
10	<p>Lifi Houda Dielectric Properties and Complex Impedance of the 0.69PbMg_{1/3}Nb_{2/3}O₃-0.31PbTiO₃ Relaxor ceramic National School of Applied Sciences, Laboratory of Materials, Processes, Environment and Quality, Cadi Ayyad University, Safi, Morocco.</p>
11	<p>Rkhis Mourad A promising high electrochemical capacity and fast hydrogen diffusion for Ni-MH battery: A first-principles insight Sci Engineer Lab Energy, Natl Sch Appl Sci, Chouaib Doukkali University, El Jadida, Morocco.</p>
12	<p>Rejdali Hajar Analytical Modeling of Piezoelectric Energy Harvesting Sci Engineer Lab Energy, Natl Sch Appl Sci, Chouaib Doukkali University, El Jadida, Morocco.</p>

13	Aboubakr Sarah Application of piezoelectric harvesting materials for electro-chemical processes Sci Engineer Lab Energy, Natl Sch Appl Sci, Chouaib Doukkali University, El Jadida, Morocco.
14	Boudara Mariyem Laboratoire de l'Eau et de l'Environnement, Equipe Thermodynamique, Surface et Catalyse, Faculté des Sciences, Université Chouaib Doukkali, El Jadida, Morocco.
15	Babaharra Oumayma Effect of the variation of PCM type on the thermal performance of a multilayer wall in a hot climate Moulay Slimane University, Laboratory of Computer and Mathematical Process Engineering, ENSA Khouribga, Morocco.
16	Ameur Soukaina MEDT study of the regioselectivity and stereoselectivity observed in the Diels Alder cycloaddition reaction between vinyl acetate and 3- aroylpyrrolo[1,2-c][1,4]benzoxazine-1,2,4-trione. Molecular Modelling and Spectroscopy Research Team, Faculty of Science, Chouaib Doukkali University, El Jadida, Morocco.
17	Sabani Erroumayssae Rolling Bearing Fault Diagnostics using Wavelet Analysis For Predictive Maintenance Laboratory of engineer science for energy, National Engineering School of Applied Sciences. Chouaib Doukkali University, El Jadida, Morocco.
18	Messaoud Elhassania Solving a multi-objective routing problems with electric vehicles by a hybrid metaheuristic Logistics, Transport and Road Safety Research Team, Hassania School of Public Works, Casablanca, Morocco.
19	Razazi Sara Supply Chain Intelligence: A Systematic Literature Review Laboratoire d'Analyse et Modélisation des Systèmes et Aide à la Décision (LAMSAD), University of Hassan I , Settat, Morocco.
20	Lhoussine Limouny Correction quantique de la conductivité d'un système bidimensionnel ENIM, LSTI Physics Department, Faculty of Sciences and Technics, University of Moulay Ismail, Errachidia, Morocco.

Posters Session II

1	Zhouri Latifa Depollution and perennial grasses: Evaluation of cocksfoot hybrids in three contrasting environments in Morocco Laboratory of Sustainable Agriculture Management, Higher School of Technology, Sidi Bennour, University of Chouaib Doukkali, El Jadida, Morocco.
2	Abara Hajar Designed clinocllore clay/alginate beads as highly effective removal of Cd(II) from an aqueous environment Laboratory of Materials and Interfacial Systems, Faculty of Sciences-Tetouan, University of Abdelmalek Essaadi (UAE), Tetouan, Morocco.
3	Ouchn Rachid Effect of ionic liquid on seawater desalination processes by direct contact membrane distillation Materials Engineering for Environment and Valorization Laboratory, Ain Chock Faculty of Sciences, Hassan II University, Morocco.
4	Driss Ouzebila Efficient and Selective Condensation of Sugar and Silylated uracile catalyzed by HClO ₄ Supported in Natural Phosphate (HClO ₄ @NP) Dept. of Chemistry, Faculty of Sciences, University of Chouaib Doukkali, El Jadida, Morocco.
5	El Maraghi Amine Electrochemical and theoretical studies of the inhibition proprieties of a new Carbonitrile derivative on C38 Steel in molar HCl solution Water and Environment Laboratory, Faculty of Sciences, University Chouaib Doukkali El Jadida, Morocco.
6	Alami Safae Electrochemical studies of A ₂ MnP ₂ O ₇ (A=Ni, Co) Ibn Tofail University, Advanced Materials and Process Engineering laboratory, Faculty of sciences, Kenitra, Morocco.
7	Hariti Nora First principal calculations on LiFePO ₄ as cathode material for Li-ion batteries LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.
8	Abida Fatima Granular Characterization of Stoichiometric Hydroxyapatite Powder Prepared by the Neutralization Method at Neutral pH and Room Temperature Team of Energy, Materials and Environment, Department of Chemistry, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco.
9	Azifa Aziz Influence of purified phosphogypsum and W/C Ratio on cement compressive strength behavior Laboratory of Physical-Chemistry of Materials Chemistry Department, Faculty of Sciences, Chouaib Doukkali University, El Jadida Morocco.
10	Lahcen AIT HMID Infrared spectra and Electrochemical studies of AMP ₂ O ₇ Diphosphates Faculty of Science, Ibn Tofail University, Kenitra, Morocco.
11	Benelaouj Sanaa Evaluation of energy performance of building walls integrating PCM Ecole nationale supérieure de chimie, Kenitra, Morocco.
12	Abala Ilham Excess Enthalpies of Binary Mixtures of Oxygenated Additives + Hydrocarbon in Fuels and Biofuels at 313.15 K Escuela Politécnica Superior, University of Burgos, Burgos, Spain.

13	<p>Ennami Nabil FTIR study of nanoparticles sulfated zirconia and catalytic activity in the ethanol decomposition reaction Laboratoire de l'Eau et de l'Environnement, Faculté des Sciences, Université Chouaib Doukkali, El Jadida, Morocco.</p>
14	<p>Riad Ayoub High-efficiency PV/T hybrid system with a temperature control loop to cool the system and harvest optimum energy for better electrical performance LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, Morocco.</p>
15	<p>Alaoui Belghiti Amine Implementation and performances of the piezoelectric/pyroelectric $Pb(Mg_{1/3}Nb_{2/3})_{1-x}Ti_xO_3$ single crystals LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
16	<p>Lifi Houda On Piezoelectric Energy Harvesting from Human Motion National School of Applied Sciences, Laboratory of Materials, Processes, Environment and Quality, Cadi Ayyad University, Safi, Morocco.</p>
17	<p>Riham Farhani Optimal Approach To Charging An Electric-Vehicle By Integrating Road Conditions LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
18	<p>El Yassini Hajar Climate Modeling Challenges and Opportunities Laboratoire Science de l'Ingénieur, ENSA Kenitra, Université Ibn Tofail, Morocco.</p>
19	<p>Ait Fares Mohammed Le lean management, potentiel et opportunités pour une industrie durable au Maroc LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
20	<p>Raji Houria Theoretical study of the Mechanism, chemo- and stereoselectivity of the epoxidation Reaction of α-trans-Himachalene Laboratory of Biomolecular Chemistry, Natural Substances and Reactivity, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco.</p>

Posters Session III

1	<p>Idrissi Hiba Performance enhancement of a passive solar still system using Phase Change Materials (PCMs): Application for seawater desalination Laboratoire des Matériaux Avancés et de Génie des Procédés, École Nationale Supérieure de Chimie, Ibn Tofail University, Kenitra, Morocco.</p>
2	<p>Chqondi Soumia Photoelectron angular distributions of non-resonant photoionization of argon with a two-color EUV+IR field Faculty of Sciences University Chouaib Doukkali, Morocco.</p>
3	<p>Chaali Younes Structural, electric, and dielectric studies of a new electrode material for sodium-ion batteries Laboratory of Physical Chemistry of Materials (LPCM), Department of Chemistry, Faculty of Science, Chouaib Doukkali University, Morocco.</p>
4	<p>Abala Ilham Thermophysical Properties of 2-(2-MethoxyEthoxy) Ethanol + 1-Butanol at (298.15 and 313.15) K: Experimental Data and PC-SAFT EoS Modeling Escuela Politécnica Superior, University of Burgos, Burgos, Spain.</p>
5	<p>Abala Ilham Experimental Data and PC-SAFT EoS Modeling of Thermophysical Properties of Binary Mixture Dibutyl ether + 2-Propanol at (298.15 and 313.15) K Escuela Politécnica Superior, University of Burgos, Burgos, Spain.</p>
6	<p>Bouabdalli El Mahdi Investigation of the effect of europium on the structural, physical, thermal, and optical properties of strontium phosphate glasses for red-luminescent solid-state optical devices LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
7	<p>Abdelouahhab Mehdi Investigation of the impact of impurities during phosphoric acid manufacturing: towards a Philosopher's phosphate rock Department of Chemical & biochemical Sciences. Green Process Engineering, Mohammed VI Polytechnic University, Benguerir, Morocco.</p>
8	<p>Mortadi Halima Investigation the optical properties of pyrophosphates $\text{Li}_x\text{Cu}_{2-x}/2\text{P}_2\text{O}_7$ ($x = 0.0; 0.05; 0.1$) prepared by solid state process Laboratory of Materials' Physical, Chemicals, Faculty of Sciences El Jadida, University Chouaib Doukkali, Morocco.</p>
9	<p>Redouane Lamsoudi Light Scattering by Capsule Particle in the Wentzel–Kramers–Brillouin Approximation Laboratory of Condensed Matter Physics, University of Chouaib Doukkali, El-Jadida, Morocco.</p>
10	<p>Abida Fatima Mechanism of Hydroxyapatite/Chitosan Composite Precipitation From Aqueous Solution at Room Temperature and Alkali Environment Team of Energy, Materials and Environment, Faculty of Sciences, Chouaib Doukkali University, El Jadida, Morocco</p>
11	<p>Nasrellah Hamid Novel synthesis and characterisation of crystalline fluorapatite from phosphogypsum Ecole Supérieure de l'Éducation est de la Formation, Université© Chouaib Doukkali Morocco.</p>

12	Chouni Khadija Phosphate-based material: Synthesis, characterization by impedance spectroscopy (IS) and study of its light absorption Laboratory of Material's Physical- Chemicals, Faculty of Sciences, University of Chouaib Doukkali, El Jadida, Morocco.
13	Derraz Meryiem Piezoelectric composite based on lead-free ceramic synthesis: effect of processing conditions on morphological and structural properties LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, EL Jadida, Morocco.
14	Zaakour Fatna Evaluation of Heavy Metal Pollution in Surface Agricultural Soils in the Mohammedia and Benslimane Regions (Morocco) Laboratory of Sustainable Agriculture Management, Higher School of Technology, Sidi Bennour, University of Chouaib Doukkali, Morocco.
15	El Aissaoui Bouchra Evaluation of the allelopathic activity of algae extracts of the genus Sargassum on the germination and growth of two cultivated plants BVRV-AP, Chouaib Doukkali University-Faculty of Sciences-El Jadida Morocco.
16	Oukkass Saad Facilitated extraction of methylene blue using a polymer inclusion membrane (PIM) Materials Engineering for Environment and Valorization Laboratory (GeMEV), Ain Chock Faculty of Sciences, Hassan II University, Morocco.
17	Belaiba Amani Microalgae biomass production based on urban wastewater from primary thickener as culture media Molecular Biology and Biochemical Engineering Department, Chemical Engineering Area, University of Pablo de Olavide, Seville, Spain.
18	El Bachtoui Manale Density, Refractive Index of Mixture of Oxygenated Compounds DIPE +1-Hexene for the Development of New Biofuels Faculty of Sciences and technology, Abdelmalek Essaadi University, Morocco.
19	Moutaoukil Zakaria Phosphate derivatives as a powerful, eco-friendly catalyst for One pot Synthesis of Dihydropyrimidines. Department of Chemical and Biochemical Sciences - Green Process Engineering (CBS-GPE), UM6P, Ben Guerir, Morocco.
20	Asdiou Nouhaila Physico-chemical study: Comparison between olive mill wastewater (OMW) from the olive oil extraction process and the storage basin for a modern unit in the Marrakech region of Morocco LabSIPE, National School of Applied Sciences Science Engineer, Chouaib Doukkali University of El Jadida, Morocco.
21	Abdellatif Aarfane Preparation and using activated carbon for the removal of dye Ecole Supérieure d'Éducation et de Formation, Université Chouaib Doukkali, El Jadida, Morocco.
22	Production of elemental sulfur and water by the oxidation of H ₂ S Tamin Abdelilah LabSIPE, National School of Applied Sciences, Chouaib-Doukkali University, El Jadida, Morocco.
23	Fatimazahra Chajri Recovery of Sludge Discharges by the Recovery of Materials Oxides Laboratory of Organic Bioorganic Chemistry and Environment, Morocco.
24	Lazar Nour-Eddine Remarkable photocatalytic activity of TiO ₂ doped Ferroelectric LiTa _{0.5} Nb _{0.5} O ₃ for organic dyes degradation Laboratory of Spectroscopy, Molecular Modeling, Materials, Nanomaterials, Water and Environment, ENSAM, Mohammed V University in Rabat.

25	<p>Abderrahim Boutahar Reversible electrocaloric effect at room temperature LabSIPE, National School of Applied Sciences Science Engineer, Chouaïb Doukkali University of El Jadida, Morocco.</p>
26	<p>Es-Saddik Mohammed Rietveld Refinement and IR Spectral Study of the hydroxyapatite biomaterial synthesized by neutralization method Department of Physics, Faculty of Sciences, Abdelmalek Essaadi University, Tetouan, Morocco.</p>
27	<p>Bouabdalli El Mahdi Spectroscopic properties and Judd-Ofelt analysis of Eu³⁺ doped strontium phosphate glasses for photonic applications LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
28	<p>Sadek Otmane Use of the principal component analysis (ACP) method for the rapid identification of solid materials LabSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco.</p>
29	<p>Sadraoui Khadija Zirconium phosphate: recyclable catalyst for the synthesis of β amino ketones by a one-pot three-component Mannich reaction Laboratory of advanced materials and process engineering university ibn tofail, Kenitra, Morocco.</p>

Posters Session IV

1	<p>Hatimi Badreddine Pyrrhotite ash and smectite clay base microfiltration membrane: membrane characterization and performance in surface water treatment Laboratoire de Chimie Organique Bioorganique et Environnement, Faculté de Sciences, Université Chouaib Doukkali, El Jadida Morocco.</p>
2	<p>Ratiki Elyassmine Removal of a cationic dye from aqueous solution by adsorption on to bassorin hydrogel Team of Energy, Materials and Environment, Department of Chemistry, Faculty of Sciences, Chouaib Doukkali University , El Jadida, Morocco.</p>
3	<p>Ouasfi Nadia Removal of emerging pharmaceutical pollutant by adsorption on activated carbon prepared from a natural substance of marine origin Laboratory of Organic Chemistry, Bioorganic and Environment (LCOBE), Morocco.</p>
4	<p>Anannaz Mohamed Sand based materials as adsorbents for chemical removal from water - An overview LRSDI, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco.</p>
5	<p>Bouzikri Said Study of the Removal Effectiveness of Bisphenol A by Adsorption on Active Carbon Derived from Bifurcaria bifurcata Macroalgae Laboratory of Organic Chemistry, Bioorganic and Environment (LCOBE), Morocco.</p>
6	<p>Khatir Omaira The environmental footprint of a wastewater treatment plant LRSDI, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco.</p>
7	<p>Erraqba Nabil The environmental footprint of a wastewater treatment plant LRSDI, FSTH, Abdelmalek Essaadi University, Tetouan, Morocco.</p>
8	<p>Souagh Adil Thermal Decomposition Pathways for Hydroxylammonium Nitrate: a DFT Study Faculty of Sciences, UCD, El Jadida, Morocco.</p>
9	<p>Assal Aicha Valorization of domestic wastewater from the el jadida wastewater treatment plant (STEP) for reuse in irrigation Laboratory of Organic Bioorganic Chemistry and Environment, Faculty of Sciences, University Chouaib Doukkali in El Jadida, Morocco.</p>
10	<p>Salima Dadou Valorization of lignocellulosic biomass, characterization and application to water treatment Laboratoire des sciences du génie des procédés industriels, Université des Sciences et de la Technologie Houari Boumediene, Algérie.</p>
11	<p>Bouftila Nour El Hoda Structural and electrochemical properties of novel phosphate-based compounds $\text{Na}_2\text{Mn}_{2-x}\text{Ni}_x\text{Fe}(\text{PO}_4)_3$ ($x = 0.6, 1.6$) as negative electrode materials for Sodium-ion batteries, Laboratory of Applied Physics, Informatic and Statistics, FSDM, Sidi Mohamed Ben Abdellah University, Fez.</p>
12	<p>Jmal Ayadi Afef Study of clay's mineralogy effect on rheological behavior of ceramic suspensions using an experimental design Laboratoire des matériaux avancés, Ecole Nationale d'Ingénieurs de Sfax, Route de Soukra Sfax, Tunisie.</p>

13	Laouid Amina Study of the effect of time on the photoluminescence of red dye thin films Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University, Torun, Poland.
14	Sadek Otmane Study of the hydroxylation of the titanium dioxide film prepared by spin-coating method LabSIPE, National School of Applied Sciences El Jadida, Chouaib Doukkali University, El Jadida, Morocco.
15	Sadik Rachid Studying of adsorption of methyl orange dye by an anionic clay using electrical impedance of liquids Laboratory of Physic and Chemistry of Materials, Morocco.
16	El Kasiti Wafaa Synthesis and Characterization of Anionic Clays based on Nickel, Magnesium and Aluminum Laboratory of Material's Physical- Chemicals, Faculty of Sciences, University of Chouaib Doukkali, El Jadida, Morocco.
17	Nasrellah Hamid Synthesis of Brushite from Phophogypsum Ecole Supérieure de l'éducation est de la Formation, Université Chouaib Doukkali, Morocco.
18	Youssoufi Fatima Synthesis of trifluoromethylated pyrroles Laboratory of Bio-organic Chemistry, University Chouaib Doukkali, Faculty of Sciences, El Jadida, Morocco.
19	Assiya Atif The synthesis of benzothiazole, benzoxazole, benzodiazole compounds Bioorganic chemistry laboratory, Faculty of sciences Chouaib doukkali, El jadida, Morocco.
20	Ahl El Haj Touayba Zirconium phosphate as a potential catalyst in the synthesis of quinazolinones laboratory of advanced materials and process engineering, Ibn Tofail University, Kenitra, Morocco.