



# ***SCIENTIFIC PROGRAM***

**2<sup>nd</sup> INTERNATIONAL CONGRESS  
ON ENVIRONMENT, ENERGY AND  
MATERIALS FOR SUSTAINABLE  
DEVELOPMENT TECHNOLOGIES**

***(IC2EM-SDT'26)***



*April 14 -16, 2026*

*National School of Applied Sciences of Al Hoceima (ENSAH)  
Engineering Sciences and Applications Laboratory (LSIA)*

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## Presentation

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The Second International Congress on Environment, Energy and Materials for Sustainable Development Technology (IC2EM-SDT'26) will be held from April 14 to 16, 2026, in a hybrid format (in-person and online) at the National School of Applied Sciences of Al Hoceima (ENSAH), Morocco. The congress is organized by the Laboratory of Engineering Sciences and Applications (LSIA) and builds upon the success and scientific impact of its first edition.

IC2EM-SDT'26 aims to serve as a high-level international platform for knowledge exchange, innovation, and collaboration, bringing together researchers, academics, industrial stakeholders, policy-makers, and doctoral students engaged in advancing sustainable development in the interconnected fields of environment, energy, and advanced materials.

This multidisciplinary congress will gather participants from diverse scientific backgrounds to discuss the latest technological and scientific advancements addressing global environmental and energy challenges. It offers a unique opportunity to explore how advanced materials, clean energy technologies, and sustainable engineering approaches can contribute to building a resilient, low-carbon, and resource-efficient future. The event also seeks to strengthen international cooperation and promote the integration of research, innovation, and industrial applications, in alignment with global sustainability strategies.

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## Scientific Scope and Topics

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The scientific program will be structured around six major thematic areas:

- ✚ Advanced materials for energy and the environment
- ✚ Environment, water, and climate resilience
- ✚ Energy transition and sustainable energy systems
- ✚ Waste valorization and circular economy
- ✚ Artificial intelligence, modeling, and sustainable systems
- ✚ Technological innovation for sustainable development

Within these themes, the congress will address key topics such as nanostructured and bio-based materials, hydrogen production and storage, renewable energy systems, energy efficiency and decarbonization strategies, integrated water resource management, waste recovery and industrial ecology, as well as the role of artificial intelligence, smart cities, and digital transformation in supporting sustainability.

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### Conference Chairs

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Prof. Achraf El Kasmî (ENSAH – UAE)

Prof. Fouad Dimane (ENSAH – UAE)

Prof. Hammadi El Farissi (ENSAH – UAE)

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### Organizing Committee

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The organizing committee of IC2EM-SDT'26 is composed of dedicated members from ENSAH who actively contribute to the preparation and successful implementation of the congress.

Abdelouahab Amahmouj (ENSAH – UAE)

Hammadi El Farissi (ENSAH – UAE)

Mohamed Hakim (ENSAH – UAE)



Achraf El Kasmi (ENSAH – UAE)

Ahmed Zian (ENSAH – UAE)

Fatima-Zahra Azar (ENSAH – UAE)

Fouad Dimane (ENSAH – UAE)

Hajar Idder (ENSAH – UAE)

Mohamed Elazzouzi (ENSAH – UAE)

Kaoutar Daoudi (ENSAH – UAE)

Khadija Haboubi (ENSAH – UAE)

Ismael Driouch (ENSAH – UAE)

Issam Hanafi (ENSAH – UAE)

Loubaba Rida (ENSAH – UAE)

Mohamed Hlimi (ENSAH – UAE)

Mohamed S. Hassani Alaoui (ENSAH – UAE)

Rachid Tiskatine (ENSAH – UAE)

Reda Lakraimi (ENSAH – UAE)

Sara Naamane (ENSAH – UAE)

Yahya El Hammoudani (ENSAH – UAE)

All affiliated with ENSAH – UAE. Through their collective expertise and commitment, the organizing committee ensures the smooth coordination, logistics, and overall management of the conference.

### Scientific Committee

The scientific committee of IC2EM-SDT'26 brings together a wide range of recognized researchers and experts from national and international institutions, ensuring a high-level scientific evaluation and academic excellence.

Abdelhak Bourjila (ENSAH – UAE)

Abdellah El Youssfi (FSTH – UAE)

Abdelouafi El Ghoulbzouri (ENSAH – UAE)

Abdelouahab Amahmouj (ENSAH – UAE)

Abderrahim El Allati (FSTH – UAE)

Achak Wafae (FST – UAE)

Achraf El Kasmi (ENSAH – UAE)

Achraf Wahid (ENSA – UCD)

Ahmed Atlamsani (FS – UAE)

Ahmed El Yacoubi (FSO – UMP)

Ahmed Zian (ENSAH – UAE)

Aissam Khaled (ENSAH – UAE)

Ali Lamkaddem (FSTH – UAE)

Amal Elrherabi (FMPO – UMP)

Amin Salhi (FSTH – UAE)

Anass Lamaizi (FSTH – UAE)

Aziz Bouluiz (FSO – UMP)

Bouchaib Manoun (FSTT – UAE)

Chaimae Benaïssa (FSTT – UAE)

Chaouki El Moujahid (FST – UAE)

El Hocine Atouki (FSR-UM5)

El Mehdi Haily (FSO – UMP)

Elhadi Baghaz (FSJ – UCD)

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Fatima El Bachraoui (UM6P)

Fatima-Zahra Azar (ENSAH – UAE)

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Hicham Setti (FPL – UAE)

Hossain El Ouarghi (ENSAH – UAE)

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Ismael Driouch (ENSAH – UAE)

Issam Hanafi (ENSAH – UAE)

Kamal Amghar (ENSAH – UAE)

Kamal Hirech (ESEF-UMP)

Kaoutar Daoudi (ENSAH – UAE)

Khadija El Anouz (FSTH – UAE)

Khadija Haboubi (ENSAH – UAE)

Khalid Draoui (FS – UAE)

Lahcen Balli (ENSAH – UAE)

Lahcen Benaabidate (FSTF – USMBA)

Lingnan Wu (CAS – China)

Loubaba Rida (ENSAH – UAE)

M'hmed Ahari (FSTH – UAE)

Manuel Garcia-Perez (WSU, USA)

Mohamed Choukairi (FS – UAE)

Mohamed El Haim (EST – UMP)

Mohamed El Massaoudi (ESEF – UMP)

Mohamed Elazzouzi (ENSAH – UAE)

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Mohamed Hlimi (ENSAH – UAE)

Mohamed S. Hassani Alaoui (ENSAH – UAE)

Mohammad Ghalit (FSTH – UAE)

Mohcin Akri (EC- Lille - France)

Morad Lamsayah (FSO – UMP)

Mostafa stitou (FS – UAE)

Muhammad Ammar (GCUF, Pakistan)

Muhammad Arshad Fahad (UM6P)

Muhammad Waqas (USTC – China)

Nabil Benaya (FSTH – UAE)

Nafae Achalhi (FSO – UMP)

Nafae Achalhi (FSO – UMP)

Nihade Bensitel (ENSAH – UAE)

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Patrick Mountapbeme Kouotou (EU, Cameroun)

Rachid Tiskatine (ENSAH – UAE)

Reda Lakraimi (ENSAH – UAE)

Rochdi Rais (FSTH – UAE)

Safaa Khattabi Rifi (FSTM – UH2)

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Tarik Chafik (FST – UAE)

Yasser Karzazi (FSO – UMP)

Zakaria Tahri (ENSAH – UAE)

Representing institutions such as ENSAH, FSTH, UM6P, UMP, UCD, UIT, UIZ, as well as universities in Europe, Asia, and the United States, the scientific committee guarantees the rigor of the peer-review process and contributes to maintaining the high scientific standards of the congress.

### Junior committee

ABDELALI LAALOU

ANASS AYNAOU

HANAE EL MADDAHI

HATIM FAIZ

HAYAT AZARKAN

HIBA RAHMANI

ILHAM EL KEBDANI

IMAD EZZOUAKI

KAOUTAR EDDARRAJI

MARIAM BELHAJ

MARYAM ESKIFATI

MOHAMED AMINE RAIT

MOHAMED BENSADDIK

MOHAMED EL FAKIRI

MOHAMED FARHAT

MOHAMMED LAANAB

MOUNIA EL MADAN

MOUNIA ISERRAREN

NISRINE EL KERBOUBI

NOUHAILA EL AFIFI

OMAR EL BAKKALI

SAID SASSIOUI

SANAE LIOUAE DINE

YOUSSEF FACHQOUL

## Speakers



**Prof. Charafat Afailal**  
(Former Minister in charge of  
Water)



**Prof. Hassan El Bari**  
(FSK, UIT)



**Prof. Hicham Elarroussi**  
(AgBS, UM6P)



**Prof. Tarik CHAFIK**  
(FSTT, UAE)



**Prof. Yahya Agzenai Ben Salem**  
(HTMR, UM6P)



**Prof. Laila Oualkacha**  
(Expert, Ministry of Equipment  
& Water)



**Prof. Idir Benaissa**  
(ISTI, UM6P)



**Prof. Khalid Draoui**  
(FS, UAE)



**Prof. Kamal Aberkani**  
(FPN, UMP)



**Prof. Khalil Aouadi**  
(MAScIR, UM6P)



**Prof. Ahmed Bulbul**  
(AGC, UM6P)



**Prof. Abderrahim El Allati**  
(FSTH, UAE)



**Prof. Tahiri Mohamed**  
(FSAC, UH2)



**Prof. Mouad Hachhach**  
(EST, UIZ)



**Prof. Mohcin Akri**  
(École Centrale de Lille, France)



**Prof. Khalid Fares**  
(FSSM, UCAM)

## PROGRAM IC2EM-SDT'26

April 14, 2026

08:30-10:00	Welcome and reception of participants
10:00-11:00	Opening ceremony
11:00-11:40	<p><b>Plenary Conference 1</b>  <b>Prof. HASSAN EL BARI</b>            FSK, UIT, Kenitra  <b>« THE ROLE OF BIOGAS TECHNOLOGY IN ACHIEVING SUSTAINABLE DEVELOPMENT GOALS »</b></p>
11:40-12:40	Coffee break / Poster session / Taking a congress picture
12:40-13:20	<p><b>Plenary Conference 2</b>  <b>Prof. TARIK CHAFIK</b>            FST, UAE, Tangier  <b>« USE OF LOCAL MINERALS AS CATALYST SUPPORT AND SOLID ELECTROLYTE FOR HYDROGEN PRODUCTION TECHNOLOGIES »</b></p>
13:20 - 14:00	<p><b>Plenary Conference 3</b>  <b>Prof. HICHAM ELARROUSSI</b>            AgBS, UM6P, Benguerir  <b>«ALGAL BIOENERGY: OPPORTUNITIES AND CHALLENGES IN THE TRANSITION TO SUSTAINABLE ENERGY»</b></p>
14:00 - 14:40	<p><b>Plenary Conference 4</b>  <b>Prof. KAMAL ABERKANI</b>            FPN, UMP, Nador  <b>« ENHANCING CROPS RESILIENCE USING SUSTAINABLE AGRICULTURAL PRACTICES: CASE STUDIES OF FRUITS AND VEGETABLES GROWN IN THE MEDITERRANEAN AREA OF MOROCCO »</b></p>
14:40 - 15:20	<p><b>Plenary Conference 5</b>  <b>Prof. AHMED BULBUL</b>            AGC, UM6P, Benguerir  <b>« HIDDEN ALLIES UNDERGROUND: RESOURCES FOR ENVIRONMENTAL AND CLIMATE SUSTAINABILITY»</b></p>
15:20-16:00	<p><b>Plenary Conference 6</b>  <b>Prof. LAILA OUALKACHA</b>            Expert, Ministry of Equipement and water, Rabat, Morocco  <b>« WATER TRANSITION IN MOROCCO: SHAPING A NEW DEVELOPMENT PATH »</b></p>
Moderators: <b>Prof. A. EL KASMI &amp; F. DIMANE &amp; H. EL FARISSI</b>	
16:00-17:30	Lunch break
17:30-19:00	Oral sessions

**April 15, 2026**

<b>10:00-10:40</b>	<p><b>Plenary Conference 7</b>  <b>Prof. KHALID DRAOUI</b>          FS, UAE Tetouan  <b>« ENGINEERING MULTIFUNCTIONAL CLAY-BASED NANOCOMPOSITES: FROM NATURAL RESOURCES TO ADVANCED ENVIRONMENTAL AND ENERGY APPLICATIONS »</b></p>
<b>10:40-11:20</b>	<p><b>Plenary Conference 8</b>  <b>Prof. MOHCIN AKRI</b>          École Centrale de Lille, France  <b>« HETEROGENEOUS CATALYSIS FOR SUSTAINABLE CONVERSION OF HYDROCARBONS AND CO<sub>2</sub> »</b></p>
<b>Moderators: Profs. Y. ELHAMMOUDANI &amp; H. EL FARISSI</b>	
<b>11:20-12:20</b>	<b>Coffee break / Poster session</b>
<b>12:20-13:00</b>	<p><b>Plenary Conference 9</b>  <b>Prof. IDIR BENAÏSSA</b>          ISTI, UM6P, Benguerir  <b>« TOWARDS MORE SUSTAINABLE AMMONIA PRODUCTION »</b></p>
<b>13:00-13:40</b>	<p><b>Plenary Conference 10</b>  <b>Prof. KHALIL AOUADI</b>          MAScIR, UM6P, Benguerir  <b>« INNOVATIVE SURFACE SOLUTIONS FOR SUSTAINABILITY: CUTTING TOOLS, IMPLANTS, AND PHOSPHATE TRANSPORT »</b></p>
<b>13:40-14:20</b>	<p><b>Plenary Conference 11</b>  <b>Prof. YAHYA AGZENAI BEN SALEM</b>          HTMR, UM6P, Benguerir  <b>« ADVANCED SELF-HEALING MATERIALS FOR ROAD CONSTRUCTION »</b></p>
<b>14:20-15:00</b>	<p><b>Plenary Conference 12</b>  <b>Prof. ABDERRAHIM EL ALLATI</b>          FSTH, UAE, Al-Hoceima  <b>« OPTIMIZING ENERGY STORAGE IN QUANTUM SYSTEMS: FROM THEORY TO SUSTAINABLE APPLICATIONS »</b></p>
<b>15:00-15:40</b>	<p><b>Plenary Conference 13</b>  <b>Prof. KHALID FARES</b>          FSS, UCA, Marrakech  <b>« LE LIXIVIAT DES DECHARGES TRAITÉ : EAU NON CONVENTIONNELLE ET INGREDIENT POUR UN COMPOST DE QUALITÉ »</b></p>
<b>Moderators: Profs. I. DRIOUCH &amp; F. DIMANE &amp; A. EL KASMI</b>	
<b>15:40-17:00</b>	<b>Lunch break</b>
<b>17:00-18:30</b>	<b>Virtual oral sessions</b>

**April 16, 2026**

10:30-11:10	<p><b>Plenary Conference 14</b> <b>Prof. CHARAFAT AFAILAL</b> Former minister in charge of water « <b>STRESS HYDRIQUE AU MAROC : ENJEUX ET SOLUTIONS POUR UNE GOUVERNANCE DURABLE</b> »</p>
11:10-11:50	<p><b>Plenary Conference 15</b> <b>Prof. MOUAD HACHAHCH</b> EST, UIZ, Agadir « <b>VALORISATION OF FOREST RESOURCES: FROM MOLECULE TO PLANT</b> »</p>
11:50-12:30	<p><b>Plenary Conference 16</b> <b>Prof. MOHAMED TAHIRI</b> FSAC, UH2, Casablanca « <b>THE CONTRIBUTION OF THE BIOENERGY FROM ORGANIC AND GREEN WASTES IN THE ENERGY MIX, HOW TO CATCH OPPORTUNITY OF THE AVAILABLE AND ABUNDANT RAW ORGANIC MATTER AND CONTRIBUTE TO LOW CARBON FOOTPRINT AND ENERGY SAVING?</b> »</p>
<b>Moderators: Profs. Y. ELHAMMOUDANI &amp; H. EL FARISSI</b>	
12:30-13:30	<b>Coffee break / Poster session</b>
13:30 – 14:30	<b>Closing ceremony</b>

## ORAL ROOMS (April 14, 2026)

ID	NAME	EMAIL	TITLE
<b>Amphitheatre B (17:30-19:00)</b> (Moderators: <b>Prof. M. SAIDI HASSANI ALAOUI &amp; A. KHALED &amp; K. AMGHAR</b> )			
OC- 01	MEDINI MOHAMED	<a href="mailto:mohamed.medini@etu.uae.ac.ma">mohamed.medini@etu.uae.ac.ma</a>	Optimizing The Energy Efficiency Of Buildings Through The Integration Of Locally-Sourced Bio-Based Materials: A Sustainable Alternative.
OC- 02	YOUNESS JARDIOUI	<a href="mailto:youness.jardiouui@usmba.ac.ma">youness.jardiouui@usmba.ac.ma</a>	Approches Pédagogiques Innovantes Pour L'enseignement De La Problématique « Eau » : Un Levier Pour Le Développement Durable
OC- 03	RAHMANI HIBA	<a href="mailto:rahmani.hiba@etu.uae.ac.ma">rahmani.hiba@etu.uae.ac.ma</a>	Technological Approaches For Olive Oil Flavoring And Their Impact On Oxidative Stability And Nutritional Quality
OC- 04	OUMAYMA ES-SBAI	<a href="mailto:oumayma.essbai@um6p.ma">oumayma.essbai@um6p.ma</a>	Revealing The Carbon Hierarchical Porosity And Biomass Conversion Relationship Using A Combined Experimental And Data-Driven Approach
OC- 05	OUBELLA FATIMA	<a href="mailto:fatima.oubella@um6p.ma">fatima.oubella@um6p.ma</a>	Sustainable Biomass Derived Carbon Dots For High Performance Water Treatment
OC- 06	LAALOU ABDELALI	<a href="mailto:laalou.abdelali@etu.uae.ac.ma">laalou.abdelali@etu.uae.ac.ma</a>	Energy And Material Recovery From Solid Waste Through Pyrolysis: Toward A Sustainable Waste Management Approach
<b>ROOM 01 (17:30-19:00)</b> (Moderators: <b>Prof. K. DAUDI &amp; R. TISKATINE &amp; LOUBABA</b> )			
OC- 07	ABDERRAHIM ABAKOUY	<a href="mailto:abderrahim.abakouy@gmail.com">abderrahim.abakouy@gmail.com</a>	Numerical simulation of the impact of surface roughness on the drag crisis of a circular cylinder
OC- 08	EL IDRISSE NIHAD	<a href="mailto:nihad.elidrissi@etu.uae.ac.ma">nihad.elidrissi@etu.uae.ac.ma</a>	Hydrological Regime And Climate Variability In The Ghiss-Nekor Basin ( Northern Morocco)
OC- 09	ABDELLATIF EL GADA	<a href="mailto:aelgada@outlook.com">aelgada@outlook.com</a>	L'apport D'hydrogel Atténue Le Stress Hydrique Chez La Myrtille (Vaccinium Corymbosum L. Var. « Biloxi ») : Une Contribution A La Durabilité Environnementale, A La Gestion Des Ressources En Eau Et A La Résilience Climatique
OC- 10	EL HAROUCHE LOUBNA	<a href="mailto:loubna.elharouche@etu.uae.ac.ma">loubna.elharouche@etu.uae.ac.ma</a>	Comparison Of The Vibration Response Of A 10-Story Building In Reinforced Concrete And Mixed Structure
OC- 11	MOHAMED A. ATLAMSANI	<a href="mailto:mohamedamine.atlamsani@etu.uae.ac.ma">mohamedamine.atlamsani@etu.uae.ac.ma</a>	Caractérisation Thermophysique Des Polyalphaoléfinés Et Des Esters Pour Des Applications De Lubrification
<b>ROOM 02 (17:30-19:00)</b> (Moderators: <b>Prof. L. BALLI &amp; M. HLIMI &amp; A. AMAHMOUJ</b> )			
OC- 12	REDA ER-ROUKHOU	<a href="mailto:reda.erroukhou@etu.uae.ac.ma">reda.erroukhou@etu.uae.ac.ma</a>	Plasmonic Sensor Based On Multiple Fano Resonances In Metal-Insulator-Metal Waveguide Coupled With A Triangular Ring-Like Cavity And Groove
OC- 13	BINDAR OUISSAL	<a href="mailto:ouissal.bindar@gmail.com">ouissal.bindar@gmail.com</a>	Multiphysics THM Modelling Of Heat, Moisture Transport, And Damage In Porous Concrete Materials
OC- 14	RAIT MOHAMED AMINE	<a href="mailto:rait.mohamedamine@etu.uae.ac.ma">rait.mohamedamine@etu.uae.ac.ma</a>	A Critical Review Of Groundwater Quality Indices In Semi-Arid Agricultural Regions: Identifying The Needs For The Saïss Basin, Morocco
OC- 15	KHOUYA TOUFIK	<a href="mailto:toufik.khouya@edu.umi.ac.ma">toufik.khouya@edu.umi.ac.ma</a>	Characterization Of The Fracture Network And Its Spatial Variability In Complex Faulted Zones: Implication In Landslide Susceptibility Analysis, Al Hoceïma, Morocco.
OC- 16	BOUASRIA HICHAM	<a href="mailto:hicham.bouasria@usms.ma">hicham.bouasria@usms.ma</a>	Évaluation De La Qualité Physico-Chimique De La Rivière Oum Er-Rbia A L'aide Des Indices De La Qualité Des Eaux Et De La Pollution Organique
<b>ROOM 03 (17:30-19:00)</b> (Moderators: <b>Prof. M. HAKIM &amp; R. LAKRAIMI &amp; S. NAAMANE</b> )			
OC- 17	NADA OULAD MOUSSA	<a href="mailto:nadaom.professionnel@gmail.com">nadaom.professionnel@gmail.com</a>	Toward Rheological Optimization Of LC3-Based Mixtures For Extrusion-Based 3D Concrete Printing
OC- 18	ABAKOUY HANANE	<a href="mailto:habakouy@uae.ac.ma">habakouy@uae.ac.ma</a>	Conceptual Design Of A Solar Adsorption Refrigeration System Prototype Using Northern Morocco Climate Conditions
OC- 19	TAALAOUI FATIMA	<a href="mailto:fatima.taalaoui@etu.uae.ac.ma">fatima.taalaoui@etu.uae.ac.ma</a>	Microbial Biodegradation Of Hydrocarbons In Marine Environments: A Sustainable Strategy For Coastal Ecosystem Protection
OC- 20	KARIMA CHERRAK	<a href="mailto:karimacherrak@gmail.com">karimacherrak@gmail.com</a>	Corrosion Inhibition Of Copper in 0.5 M H <sub>2</sub> SO <sub>4</sub> by a Pyrazole Derivative: Electrochemical and Molecular Dynamics
OC- 21	EL KHOUDRI MOUAD	<a href="mailto:mouad.elkhouhri@gmail.com">mouad.elkhouhri@gmail.com</a>	Seismic Fragility Assessment Of A Railway Viaduct In Morocco: Integrating Design Data And Incremental Dynamic Analysis
OC- 22	ABDESSAMAD MAZZOURH		Moyennant les techniques SIG, délimitation des zones de recharge des eaux souterraines dans le bassin côtier Ghiss-Nekkour « Nord-est du Maroc »

## VIRTUAL ORAL SESSIONS (April 15, 2026)

### Room V-01 (17:00-18:30)

(Moderators: **Prof. M. LAMSAYAH & N. BENAYA & N. ACHALHI**)

OC-001	ABBAS LAHBIB	<a href="mailto:labbas@umi.ac.ma">labbas@umi.ac.ma</a>	Physical, Chemical And Electrical Study Of 0.1Li <sub>2</sub> O-0.4Mo-0.5P <sub>2</sub> O <sub>5</sub> Oxide Glasses M (Zn, Pb, Cu, Ba, Cd).
OC-002	AHMED HARAT	<a href="mailto:ahmed.harat@edu.uiz.ac.ma">ahmed.harat@edu.uiz.ac.ma</a>	Spatiotemporal Dynamics And Biodiversity Of Dinoflagellate Communities: Indicators Of Environmental Resilience In A Moroccan Atlantic Coastal Ecosystem
OP-003	ZOUHRI AZIZ	<a href="mailto:az.zouhri@edu.umi.ac.ma">az.zouhri@edu.umi.ac.ma</a>	Comparative Study Of Antioxidant And Antimitotic Activities And Quantification Of Phenolic Compounds In Three Northern Moroccan Plants (Poster)
OC-004	CHAYMAE TOUZANI	<a href="mailto:chaymaetouzani99@gmail.com">chaymaetouzani99@gmail.com</a>	Traitement Et Valorisation De La Saumure Pour La Fabrication De Membranes Céramiques
OC-005	YOUSSEF YOUSSEFI	<a href="mailto:y.youssefi@edu.umi.ac.ma">y.youssefi@edu.umi.ac.ma</a>	Synthesis, Characterization And Evaluation Of New Corrosion Inhibitors 14 Derived From N-Vinylpyrrolidone: Gravimetric And Electrochemical Studies
OC-006	EL-ASSRI YOUSSEF	<a href="mailto:youssef.lassri1@usmba.ac.ma">youssef.lassri1@usmba.ac.ma</a>	Valorization of <i>Elaeagnus angustifolia</i> L. Leaves from Morocco: HPLC-PDA Profiling and In Silico Assessment of Pharmacokinetics, Toxicity, and Antibacterial Potential
OC-007	CHAMKHA HAJAR	<a href="mailto:chamkha.hajar@gmail.com">chamkha.hajar@gmail.com</a>	Procédés Innovants De Stabilisation Des Sols Pour Des Infrastructures Routières Durables : Perspectives Pour Le Contexte Marocain

### Room V-02 (17:00-18:30)

(Moderators: **Prof. N. BENSITEL & N. NOUAYTI & N. EL MOUSSAOUI**)

OC-008	EL MADANI MOUNIA	<a href="mailto:elmadani.mounia@etu.uae.ac.ma">elmadani.mounia@etu.uae.ac.ma</a>	Recent Advances In Valorization Of Biomass And Plastic Wastes For Hydrogen Production
OC-009	CHAYMAA NOUGA	<a href="mailto:chaymaanouga2@gmail.com">chaymaanouga2@gmail.com</a>	Vers Un Développement Durable : Le Projet D'aménagement De La Vallée Du Bouregerg
OC-010	LAFLAFLI SABAH	<a href="mailto:laflafisabah@gmail.com">laflafisabah@gmail.com</a>	Gestion Verte Des Ressources Humaines Et Transition Vers Des Comportements Pro-Environnementaux Dans Les Hôpitaux Publics Marocains : Une Etude Quantitative
OC-011	OUASSIMA EL BANNOUDI	<a href="mailto:ouassima.elbannoudi@etu.uae.ac.ma">ouassima.elbannoudi@etu.uae.ac.ma</a>	Artificial Intelligence For Water Management Under Climate Change: A Bibliometric And Patent Analysis
OC-012	ER-RAMY NOUREDDINE	<a href="mailto:ramy.nourdin@gmail.com">ramy.nourdin@gmail.com</a>	Coastal Ecosystem Health Assessment For The Moroccan Mediterranean Coast
OC-013	BERRAADI MOHAMED	<a href="mailto:mohamed.berraadi@etu.uae.ac.ma">mohamed.berraadi@etu.uae.ac.ma</a>	Benthic Foraminifera Of The Tangier Coastline: Biodiversity, Distribution, And Environmental Bioindication
OC-014	TOWIP. T	<a href="mailto:towip@staff.uns.ac.id">towip@staff.uns.ac.id</a>	Circular Economy Transition In E-Waste Management In Indonesia: A Systematic Review Of Current Status And Strategic Challenges
OC-015	DILMUROD SHEROV	<a href="mailto:dilmurodshero501@gmail.com">dilmurodshero501@gmail.com</a>	Development of a Sesame Threshing Device and Evaluation of Its Performance Indicators

### Room V-03 (17:00-18:30)

(Moderators: **Prof. R. TISKATINE & R. LAKRAIMI & R. RAIS**)

OC-016	MERYEM JANATI IDRISSE	<a href="mailto:meryem.janatiidrissi@gmail.com">meryem.janatiidrissi@gmail.com</a>	Generative Artificial Intelligence For Environmental Sustainability: Enhancing Science Education Toward Eco-Citizenship
OC-017	ABDELKARIM MAHTAL	<a href="mailto:abdelkarim.mahtal@usmba.ac.ma">abdelkarim.mahtal@usmba.ac.ma</a>	Apport De La Télédétection Et Du SIG A L'étude Structurale Et Hydrogéologique De La Couverture Mésozoïque Du Sud-Ouest De Taza (Moyen Atlas, Maroc).
OC-018	OUMAYMA JAHID	<a href="mailto:oumayma.jahid@etu.uae.ac.ma">oumayma.jahid@etu.uae.ac.ma</a>	Mathematical Modeling And Theoretical Analysis Of Pollutant Transport In Porous Media: A Review Of Current Approaches
OC-019	YOUSSEF KHRISSE	<a href="mailto:youssefkhriissi@gmail.com">youssefkhriissi@gmail.com</a>	Cost-Effective Optimization Of The Insulation Thickness Of An Exterior Wall In A Building Envelope
OP-020	YASMINE LEBBADI	<a href="mailto:ylebbadi@gmail.com">ylebbadi@gmail.com</a>	Making Sustainability Desirable: Experiential Pathways To The Water-Energy Transition
OC-021	RAJAA SALIH	<a href="mailto:rajaa.salih@usms.ac.ma">rajaa.salih@usms.ac.ma</a>	Advanced Thermal Management Strategies For PV/T Systems: A Review Of Nanofluids, PCM, And AI-Driven Optimization
OC-022	OTMANE KHARBOUCH	<a href="mailto:otmane.kharbouch@uit.ac.ma">otmane.kharbouch@uit.ac.ma</a>	Integrated Optimization Of Alkaline Water Electrolysis Performance: A Coupled 2D CFD Simulation And Response Surface Methodology (RSM) Approach
OC-023	REY-MARK BASAGRE	<a href="mailto:reymark.basagre@cbsua.edu.ph">reymark.basagre@cbsua.edu.ph</a>	Engineering and Technical Skills Development of Students Exposed to Artificial Intelligence and STEAM-Based Physics

### Room V-04 (17:00-18:30)

(Moderators: **Prof. S. KHATTABI RIFI & S. BENYOUSSEF & S. EL KHALDI**)

OC-024	OUICHEIKH LAHCEN	<a href="mailto:lah.oucheikh@edu.umi.ac.ma">lah.oucheikh@edu.umi.ac.ma</a>	Evaluation Of The Antioxidant Activity Of An Oasis Plant From The Draa-Tafilalet Region: <i>Anvillea Garcinii</i> Supsp. <i>Radiata</i>
OC-025	GHIZLANE AZIZI	<a href="mailto:g.azizi@ump.ac.ma">g.azizi@ump.ac.ma</a>	Environmental Impact On The Growth And Productivity Of <i>Mytilus Galloprovincialis</i> From The Cala Iris Sea Of Al Hoceima, Northern Morocco.
OC-026	GHIZLANE AZIZI		Seasonal Variability Of Metals (Fe, Cr And Ni) And Physicochemical Parameters In Seawater And Sediments Of The Marchica Lagoon (Northeast Morocco)
OC-027	ZARZOUKI RACHID	<a href="mailto:rachid.zarzouki@etu.uae.ac.ma">rachid.zarzouki@etu.uae.ac.ma</a>	Surface Water Quality And Heavy Metal Pollution Assessment In The Middle Moulouya Basin: Implication To Sustainable Water Management
OC-028	CHAHID AMINA	<a href="mailto:aminachahid52@gmail.com">aminachahid52@gmail.com</a>	Enhancing Compost Quality: A Review Of Olive Mill Waste Co-Composting Strategies

OC-029	OUAZRI CHAIMAE	<a href="mailto:couazri@uae.ac.ma">couazri@uae.ac.ma</a>	Explainable AI For Wildfire Risk Mapping In Mediterranean Regions Using Climate And Iot Data
OC-030	ABAIDA BARAE	<a href="mailto:barae.abaida@gmail.com">barae.abaida@gmail.com</a>	Influence Of Irrigation Water On The Quality Of Verbena
OC-031	SHERZOD YUSUPOV	<a href="mailto:she_xxx89@mail.ru">she_xxx89@mail.ru</a>	On Improving the Completeness of Cotton Harvesting by Vertical Spindle Machines
<b>Room V-05 (17:00-18:30)</b> (Moderators: <b>Prof. S. NAAMANE &amp; Y. KARZAZI &amp; Z. TAHRI</b> )			
OC-032	ELMOUDNIA HICHAM	<a href="mailto:elmoudnia.hicham@gmail.com">elmoudnia.hicham@gmail.com</a>	Bio-Based Insulation Materials: A Comprehensive Review Of Their Properties, Performance, And Potential For Sustainable Construction
OC-033	KCHIRID MOUHSSINE	<a href="mailto:mohssine.kchirid@gmail.com">mohssine.kchirid@gmail.com</a>	Mechanical Enhancement Of Compressed Earth Blocks Using Alkali-Treated Doum Fibers Reinforcement.
OC-034	EL AFIFI NOUHAILA	<a href="mailto:nouhaila.elafifi@etu.uae.ac.ma">nouhaila.elafifi@etu.uae.ac.ma</a>	Towards A Sustainable Water Treatment Plant: Life Cycle Analysis Of Hydrogen Production Via Polymer Exchange Membrane Water Electrolysis
OC-035	EL YAZIDI ABDELAZIZ	<a href="mailto:elyazidi.abdelaziz@gmail.com">elyazidi.abdelaziz@gmail.com</a>	Machine Learning-Based Water Stress Detection Using Wireless Sensor Network Data
OC-036	SAGHOR AHMED	<a href="mailto:ahmrdsaghor2@gmail.com">ahmrdsaghor2@gmail.com</a>	La Transition Energétique A L'épreuve De L'icor : Etude De Cas De La Stratégie Energétique Marocaine 2009-2030
OC-037	HAZYOUN HANAN	<a href="mailto:hazyounhanane270@gmail.com">hazyounhanane270@gmail.com</a>	Entomological And Physicochemical Characterisation Of Anopheles Larval Habitats In Malaria-Risk Areas Of The Eastern Rif, Morocco.
OC-038	BADR LAYAN	<a href="mailto:Layan.floods@gmail.com">Layan.floods@gmail.com</a>	Tracking Flood Dynamics Over Two Decades: Hydro-Geomorphological Insights From 2006 And 2025 Along Larbaâ River, Northern Morocco
<b>Room V-06 (17:00-18:30)</b> (Moderators: <b>Prof. A. EL YOUSSEFI &amp; A. LAMAIZI</b> )			
OC-039	MHAJIBA BELHOUS	<a href="mailto:mhajjiba.belhous@edu.uiz.ac.ma">mhajjiba.belhous@edu.uiz.ac.ma</a>	Optimal Design Of High-Performance Educational Buildings: A Multi-Objective Optimization And Decision-Making Approach For Six Moroccan Climate Zones
OC-040	SIAH HOUDA	<a href="mailto:houda.siah@um5r.ac.ma">houda.siah@um5r.ac.ma</a>	Compressive Strain Effects On The Photocatalytic And Optoelectronic Properties Of Csinbr3 For Efficient Hydrogen Production: A DFT Study
OC-041	MERYEM SABRI	<a href="mailto:meryem.sabri@um5r.ac.ma">meryem.sabri@um5r.ac.ma</a>	First-Principles Exploration Of Lead-Free Halide Double Perovskites Cs <sub>2</sub> BBr <sub>6</sub> (B = Si, Ti, Sn) As Candidates For Hydrogen Production And CO <sub>2</sub> Reduction.
OC-042	LAHSAINI HIBA	<a href="mailto:Hiba.lahsaini@etu.ua.ac.ma">Hiba.lahsaini@etu.ua.ac.ma</a>	Synergistic Potential Of Moroccan Thymus Species Essential Oils With Reference Antibiotics Against Clinically Relevant Pathogens: A Literature Review
OC-043	NISRINE EL AYAT	<a href="mailto:nisrine.elayat@etu.uae.ac.ma">nisrine.elayat@etu.uae.ac.ma</a>	Reinforcement Learning With Emotion-Shaped Rewards For Affective Recommendation In Autism Spectrum Disorder
OC-044	AZEDDIN EL BARNOSSI	<a href="mailto:azeddin.elbarnossi@usmba.ac.ma">azeddin.elbarnossi@usmba.ac.ma</a>	Microbial Functional Diversity Associated With Carbon And Nitrogen Cycling During Olive Leaves Decomposition For Sustainable Valorisation
OC-045	RACHID OUALAID	<a href="mailto:rachid.oulaaid@edu.uiz.ac.ma">rachid.oulaaid@edu.uiz.ac.ma</a>	DFT Analysis Of Physical Properties And Solid-State Hydrogen Storage Potential Of Sodium -Based Double Perovskites Na <sub>2</sub> XH <sub>6</sub> (X = V, Cr And Co)
OC-046	HURSAND RAHIMOV	<a href="mailto:xursandrahimov319@gmail.com">xursandrahimov319@gmail.com</a>	Theoretical and experimental substantiation of the operating height of a pre-sowing land leveler for energy-efficient soil preparation
<b>Room V-07 (17:00-18:30)</b> (Moderators: <b>Prof. I. ACHOUKHI &amp; A. BOURJILA &amp; A. EL YOUSSEFI</b> )			
OC-047	SOUHAIL KARIM	<a href="mailto:karim.souhail.ef@gmail.com">karim.souhail.ef@gmail.com</a>	Aires Marines Protégées Du Sud De La Méditerranée Face Au Changement Climatique : Contraintes Structurelles Et Potentiel Des Observatoires Marins Comme Leviers De Résilience
OC-048	KAMELIA BLYID	<a href="mailto:kamelia.blyid@ujit.ac.ma">kamelia.blyid@ujit.ac.ma</a>	Effect Of A Polymer Additive On Zn Electrodeposition On Carbon Steel From An Acid Sulfate Electrolyte
OC-049	AISSAM BOUAICHE	<a href="mailto:BOUAICHE.Aissam.UH2.LCEAT@gmail.com">BOUAICHE.Aissam.UH2.LCEAT@gmail.com</a>	Comparative Analysis Of Daytime And Nighttime Surface Heat Islands In Contrasting Urban Environments (Agadir And Fez)
OC-050	BEN ABBOU MOHAMED	<a href="mailto:benabbou.md@gmail.com">benabbou.md@gmail.com</a>	Environmental Impact Assessment Of Taza City's Wastewater On The Watershed Of Oued Larbaa, Morocco
OC-051	ACHRAF A. ZEMATE	<a href="mailto:zemate.achraf@gmail.com">zemate.achraf@gmail.com</a>	Quantum Computing And Sustainable Development: What Are The Benefits?
OC-052	HALA ROSSI	<a href="mailto:hala.rossi@etu.uae.ac.ma">hala.rossi@etu.uae.ac.ma</a>	Multi-Sensor And Machine Learning Approaches For Wetland Mapping Using Sentinel Satellites
OP-053	DOUNIA FETJAH	<a href="mailto:fetjahdounia194@gmail.com">fetjahdounia194@gmail.com</a>	Impacts Of Integrating Agricultural Residues Into Soil To Enhance Paspalum Development In Arid Locations
<b>Room V-08 (17:00-18:30)</b> (Moderators: <b>Prof. A. EL GHOULBZOURI &amp; A. AMAHMOUJ &amp; A. EL ALLATI</b> )			
OC-054	ABDELLAH BENCHEIKH	<a href="mailto:abdellah.bencheikh@um5r.ac.ma">abdellah.bencheikh@um5r.ac.ma</a>	Machine Learning Approaches For Early Sex Determination In Dioecious Plant Species
OC-055	AITNACEUR YOUSSEF	<a href="mailto:aitnaceuryoussef6@gmail.com">aitnaceuryoussef6@gmail.com</a>	Towards Sustainable Nanomaterials: Technoeconomic Assessment And Environmental Of Industrial-Scale Production Of Phosphorylated Cellulose Nanofibers From Stipa Tenacissima
OC-056	BRAHIM AZZIMANI	<a href="mailto:azzimani1@gmail.com">azzimani1@gmail.com</a>	DFT And TD-DFT Calculations Of New D-π-A Architecture Organic Materials For Application In Dye-Sensitized Solar Cells
OC-057	EL ABBOUDI JAMILA	<a href="mailto:jamila.elabboudi@etu.uae.ac.ma">jamila.elabboudi@etu.uae.ac.ma</a>	Antibacterial Activity Of Origanum Majorana (L.) Essential Oil.
OC-058	EL ABBOUDI JAMILA		Effects Of Solvent Extraction On Polyphenol And Flavonoid Yields From Origanum Compactum Extracts
OC-059	CHATTOU MERIEM	<a href="mailto:meriem.chattou@ump.ac.ma">meriem.chattou@ump.ac.ma</a>	La Sécurité Alimentaire Des Coquillages : Surveillance Microbiologique, Contaminations Chimiques Et Gestion Des Risques Sanitaires



OC-060	YAHIA MOHAMED	<a href="mailto:yahia.mohamed@um6p.ma">yahia.mohamed@um6p.ma</a>	From Phosphate Rock To Sustainable Materials: Phosphoric Acid And Biomass Valorization For Environmental Applications
<b>Room V-09 (17:00-18:30)</b> (Moderators: <b>Prof. A. WAHID &amp; A. EL YACOUBI &amp; A. ZIAN</b> )			
OC-061	KARIMA AIT ALLA	<a href="mailto:k.aitalla@uae.ac.ma">k.aitalla@uae.ac.ma</a>	Chemical Profiling, Antifungal Activity, And In Silico Investigations Of Essential Oil Obtained From Thymus Glandulosus In Northern Morocco
OP-006	KARIMA AIT ALLA		Phytochemical screening and Antioxidant activity of two species of Mentha wild grown in Northern Morocco
OC-062	MOHAMED AMEZIANE	<a href="mailto:ameziane.mohamed1@etu.uae.ac.ma">ameziane.mohamed1@etu.uae.ac.ma</a>	Contribution A L'évaluation De La Désertification Dans Le Haut Ziz (Sud-Est Du Maroc) En 2024 Basée Sur Les Données Landsat, La TCT Et Les Indices Spectraux
OC-063	YAHYA EL-MERNISSI	<a href="mailto:yahya.elmernissi@etu.uae.ac.ma">yahya.elmernissi@etu.uae.ac.ma</a>	Ethnomedicinal Uses And Antimitotic, Analgesic And Anti-Inflammatory Effects Of The Aqueous Leaf Extract Of Rubus Fruticosus L.
OC-064	EL BID YOUSSEF	<a href="mailto:youssef.elbid@edu.uiz.ac.ma">youssef.elbid@edu.uiz.ac.ma</a>	DFT Study Of Electronic And Optical Properties Of The Double Perovskite Cs <sub>2</sub> BiCuCl <sub>6</sub> For Photovoltaic And Optoelectronic Applications.
OC-065	SEYDOU JOLI OUSSAMA	<a href="mailto:oussamaseydou@gmail.com">oussamaseydou@gmail.com</a>	La Contribution De L'économie Sociale Et Solidaire (ESS) A Une Transition Énergétique Juste Et Résiliente Dans La Région MENA : Une Revue Systématique De Littérature Dans Le Contexte Marocain.
OC-066	LQADI MARYEM	<a href="mailto:lqadi.maryem@etu.uae.ac.ma">lqadi.maryem@etu.uae.ac.ma</a>	Tracking Aquifer Deformation From Space: Insar-Based Monitoring Of Subsidence At Charf El Akab
OC-067	ZGUENI HICHAM	<a href="mailto:hicham.zgueni@edu.umi.ac.ma">hicham.zgueni@edu.umi.ac.ma</a>	Design, Synthesis And Characterization Of Phenolphthalein-Based Dipolarophiles And Assessment Of Their Corrosion Inhibition Performance For Carbon Steel In 1 M Hcl Via Electrochemical, Computational And Surface Analyses
<b>Room V-10 (17:00-18:30)</b> (Moderators: <b>Prof. AI. KHALED &amp; A. LAMKADEM &amp; A. ELRHERABI</b> )			
OC-068	SALMA MERRANY	<a href="mailto:Salmamerrany3@gmail.com">Salmamerrany3@gmail.com</a>	Hydrodynamics And Mass Transfer In Bubble Column Reactors For Wastewater Treatment: A Literature Review
OC-069	OUSRI HAMZA	<a href="mailto:hamzaousri74@gmail.com">hamzaousri74@gmail.com</a>	Dynamique Saisonnière De La Productivité Primaire D'une Retenue Alimentée Par Les Eaux Usées Epurées : Cas Du Barrage Hassar (Casablanca, Maroc)
OC-070	HADOUDI NOUHAILA	<a href="mailto:nouhailahadoudi79@gmail.com">nouhailahadoudi79@gmail.com</a>	Cellulose-Bentonite Magnetic Composites: Functionalized Bio-Based Adsorbents For Sustainable Water Treatment
OC-071	CHRAA SOUKAINA	<a href="mailto:soukaina.chraa@etu.uae.ac.ma">soukaina.chraa@etu.uae.ac.ma</a>	Multi-Sensor Approaches For Monitoring And Mapping Surface Water And Wetlands: Application In Tahaddart Wetlands
OC-072	MOHAMED EL YAZID	<a href="mailto:mohamed.elyazid@etu.uae.ac.ma">mohamed.elyazid@etu.uae.ac.ma</a>	Kinetic Modeling And Sensitivity Analysis Of CO <sub>2</sub> Methanation Over Ru/Al <sub>2</sub> O <sub>3</sub> Catalyst For Industrial Power-To-Gas Applications
OC-073	ROUWANE SAIDA	<a href="mailto:saida.rou82@gmail.com">saida.rou82@gmail.com</a>	Évaluation De L'empreinte Hydrique Comme Indicateur De Gestion Durable Des Ressources En Eau A L'échelle Du Bassin Versant
OC-074	MOHAMED ELHADEF	<a href="mailto:elhadefeps@gmail.com">elhadefeps@gmail.com</a>	Sport, Health And Environment: Family Sports Capital As A Lever Of Ecological Values
<b>Room V-11 (17:00-18:30)</b> (Moderators: <b>Prof. A. SALHI &amp; A. LAMAIZI &amp; A. BOULUIZ</b> )			
OC-075	ARFA LAHCEN	<a href="mailto:lahcen.arfa-etu@etu.univh2c.ma">lahcen.arfa-etu@etu.univh2c.ma</a>	Ab Initio Investigation Of The Structural, Mechanical, Optoelectronic And Thermophysical Properties Of AsX <sub>3</sub> H <sub>9</sub> (X =Ca, Cr And Sc) Compounds For Hydrogen Storage Applications
OC-076	DRADI SALMA	<a href="mailto:salmadradi21@gmail.com">salmadradi21@gmail.com</a>	Quantum Chemical Investigation Of Two Urea Derivatives (CPHU And HNMU) As Corrosion Inhibitors For Mild Steel In Hydrochloric Acid
OC-077	SAIDA AIT BOUGHROUS	<a href="mailto:s.aitboughrous@edu.umi.ac.ma">s.aitboughrous@edu.umi.ac.ma</a>	Assessment Of Surface Water Quality Using The Water Quality Index (WQI) In The Oued Guir
OC-078	BENSADDIK MOHAMED	<a href="mailto:mohamed.bensaddik1@etu.uae.ac.ma">mohamed.bensaddik1@etu.uae.ac.ma</a>	Sludge Valorization For Cadmium Removal: Effect Of Activation Methods And Physicochemical Characterization
OC-079	ELBRYMY JAMILA	<a href="mailto:jamila.elbrymy@edu.uiz.ac.ma">jamila.elbrymy@edu.uiz.ac.ma</a>	Étude Numérique Et Paramétrique Des Performances Thermiques D'un Mur Isolé Par Un Bio-Composite En Fibres D'alfa : Optimisation De L'enveloppe Via COMSOL Multiphysics.
OC-080	FATIMA ENNAFAA	<a href="mailto:fatima_ennafaa@um5.ac.ma">fatima_ennafaa@um5.ac.ma</a>	Exploring The Relationship Between Antioxidant Activity And Electrochemical Behavior In Green Steel Corrosion Inhibitors
OP-081	NIHAL MESBAHI	<a href="mailto:nihal.mesbahi@etu.uae.ac.ma">nihal.mesbahi@etu.uae.ac.ma</a>	Evaluating Flood Resilience In Industrial Zones: A PSR-Based VIKOR Approach With Hybrid CRITIC-EWM Weighting
<b>Room V-12 (17:00-18:30)</b> (Moderators: <b>Prof. C. BENAÏSSA &amp; C. EL MOUJAHID &amp; EL M. HAILY</b> )			
OC-082	BOUZAR ZAKARIA	<a href="mailto:zakariabouzar201@gmail.com">zakariabouzar201@gmail.com</a>	Biochemical Characterization And Traditional Uses Of Citrus Aurantium Within A Circular Economy Framework: Perspectives On Waste And Wastewater Valorization
OC-083	MOUSSAOUI LHACHMI	<a href="mailto:lhachmi_moussaoui@um5.ac.ma">lhachmi_moussaoui@um5.ac.ma</a>	Production And Valorization Of Plant Fibers As An Organic Amendment In Filtering Blocks
OC-084	HANAE EL MADDAHI	<a href="mailto:hanae.elmaddahi@etu.uae.ac.ma">hanae.elmaddahi@etu.uae.ac.ma</a>	Assessment Of Rainfall Variability And Future Precipitation Trends Prediction In The Tensift Basin, High Atlas Of Morocco.
OC-085	KAWTAR REZKALLAH	<a href="mailto:kawtarrezkallah@gmail.com">kawtarrezkallah@gmail.com</a>	Analyse Des Tendances Pluviométriques Et Caractérisation Des Sécheresses Au Barrage Garde Du Sebou (Bassin Du Sebou, Maroc, 1970-2024)
OC-086	EL-ALOUANY DAOUD	<a href="mailto:d.elalouany.ced@uca.ac.ma">d.elalouany.ced@uca.ac.ma</a>	Sewage Sludge Valorization in Construction Materials: An Overview
OC-087	AMINE MIFTAH	<a href="mailto:miftah.amine.09@gmail.com">miftah.amine.09@gmail.com</a>	Sustainable Production Of Biomass-Derived Activated Carbon For The Removal Of Organic Pollutants From Wastewater
OC-088	MOHAMED AIT ICHOU	<a href="mailto:m.aitichou@uhp.ac.ma">m.aitichou@uhp.ac.ma</a>	Study The Mechanical Behavior Of Cu Thin Films Under Nano-Indentation Using Molecular Dynamics Simulation

### Room V-13 (17:00-18:30)

(Moderators: **Prof. E. BAGHAZ & F. DIB & F. MANSOURI & F.-ZAHRA AZAR**)

OC-089	KHOUYA LAHCEN	<a href="mailto:lah.khouya@edu.umi.ac.ma">lah.khouya@edu.umi.ac.ma</a>	Regulating Desalination Brine Discharges In Morocco: A Comparative Assessment Of Regulatory Framework Robustness
OC-090	ALI OUAÏYSA	<a href="mailto:ouaiysaali@gmail.com">ouaiysaali@gmail.com</a>	Nature And Ethics In The Philosophy Of Abu Al-Hasan Al-Amiri
OC-091	HABOUBI CHAIMAE	<a href="mailto:chaimae.haboubi1@gmail.com">chaimae.haboubi1@gmail.com</a>	Vers Une Construction Durable Par Les Matériaux En Terre Crue : Caractérisation Du Matériau Innovant CANNARGILE
OC-092	ELJAADI YAHYA	<a href="mailto:yahya.eljaadi@etu.uae.ac.ma">yahya.eljaadi@etu.uae.ac.ma</a>	Environmental Impact Assessment Of Pesticide Use In The Loukkos Region Using Risk Indicators
OC-093	ZAINA ABOU-ELFATH	<a href="mailto:aboualfathezaina@gmail.com">aboualfathezaina@gmail.com</a>	Integration Of Marine Heat Pumps And Renewable Energy Sources In Seawater Desalination Systems: Energy And Environmental Performance
OC-094	GULMIRA SHUNGARAEVA	<a href="mailto:gulmirashungaraeva1995@gmail.com">gulmirashungaraeva1995@gmail.com</a>	Advanced Materials For Energy And The Environment.
OC-095	KAMAL BOUJAGHAMA	<a href="mailto:kamal.boujaghama@edu.uiz.ac.ma">kamal.boujaghama@edu.uiz.ac.ma</a>	Accurate Parameter Extraction Of Photovoltaic Modules Using A Hybrid Analytical-Genetic Algorithm Based On The Double Diode Model

### Room V-14 (17:00-18:30)

(Moderators: **Prof. H. AMHAMDI & H. SETTI & I. ACHOUKHI**)

OC-096	LOUBNA BOUGARNE	<a href="mailto:Loubna.bougarne@gmail.com">Loubna.bougarne@gmail.com</a>	Green Algae And Poultry Manure: From Waste To A Circular Economy
OC-097	OTMANE DARBAL	<a href="mailto:otmane.darbal@usmba.ac.ma">otmane.darbal@usmba.ac.ma</a>	Artificial Intelligence-Based Identification Of Critical Surface Quality Degradation Zones Using Unsupervised Neural Networks
OC-098	OTMANE DARBAL		Understanding Childhood Immunization Dynamics Through Multi-Model And Machine Learning Approaches
OC-099	FATIMA AFASSI	<a href="mailto:fatima.afassi@etu.uae.ac.ma">fatima.afassi@etu.uae.ac.ma</a>	Multidimensional Evaluation Of Plant Bioactivity From The Rif: Correlation Between Environmental Factors, Phytochemical Profiling, And Dermo-Cosmetic Performance.
OC-100	BALLOT RIFAT	<a href="mailto:ballot.rifat@etu.uae.ac.ma">ballot.rifat@etu.uae.ac.ma</a>	Analyse Hydrochimique Et Variabilité Spatiale De La Salinité Des Eaux Souterraines Dans L'aquifère Côtier De Ghiss-Nekkour
OC-101	ER-RAMACH ABDELHAY	<a href="mailto:abdelhay.erramach@usmba.ac.ma">abdelhay.erramach@usmba.ac.ma</a>	Anthropogenic Impact On Groundwater Quality In The Oued Dfali Watershed In The City Of Taza, Morocco
OC-102	OUAHOUAH ZINEB	<a href="mailto:zineb.ouahouah@usms.ac.ma">zineb.ouahouah@usms.ac.ma</a>	Surface-Modified Biochar From Agricultural Biomass: A High-Efficiency Adsorbent For Wastewater Treatment
OC-103	ZAIRA SATPAYEVA	<a href="mailto:zaira.satpayeva@gmail.com">zaira.satpayeva@gmail.com</a>	Impact of Artificial Intelligence on Development of Enterprise Management: A Bibliometric Analysis

### Room V-15 (17:00-18:30)

(Moderators: **Prof. I. DRIOUCH & I. HANAFI & K. AMGHAR**)

OC-104	THAIKI MOHAMMED	<a href="mailto:mthaiiki@uae.ac.ma">mthaiiki@uae.ac.ma</a>	Territorial Greenhouse Gas Emissions Inventory In The Municipality Of Ait Youssef Ou Ali
OC-105	HOSSEIN BADI	<a href="mailto:badi.hossein@etu.uae.ac.ma">badi.hossein@etu.uae.ac.ma</a>	Parametric Optimization Of Clay-Limestone-Lime Composite Walls For Energy And Hygrothermal Performance In Mediterranean Buildings
OC-106	HOSSEIN BADI		Integrated Assessment Of Overcooling, Indoor Humidity And Envelope Design In Mediterranean Residential Buildings Using Bio-Based And PCM-Enhanced Materials
OC-107	AMINE SARHRANI	<a href="mailto:amine.sarhrani@uit.ac.ma">amine.sarhrani@uit.ac.ma</a>	Spatiotemporal Mapping Of Pioneer Vegetation In Coastal Dunes Using Sentinel-2 MSAVI2: A Comparative Study Of Fixed And Otsu Thresholding Methods
OC-108	KHALID BOUAICHE	<a href="mailto:khalid.bouaiche-etu@etu.univh2c.ma">khalid.bouaiche-etu@etu.univh2c.ma</a>	Molecular Dynamics Study Of Graphene Nanoslit Membranes For Efficient Water Desalination
OC-109	KHADIJA JANAHA	<a href="mailto:janahkhadija.edu@gmail.com">janahkhadija.edu@gmail.com</a>	Integration Of Phase Change Materials In Building Envelopes: Applications, Integration Methods, And Potential For Enhanced Thermal Energy Storage
OC-110	YAHYA MFEDAL	<a href="mailto:mfedal.yahya@etu.uae.ac.ma">mfedal.yahya@etu.uae.ac.ma</a>	Hydrochemical Characterization And Pollution Sensitivity Of The Ghiss-Nekor (Morocco) Impact Of Agriculture And Seawater Intrusion

### Room V-16 (17:00-18:30)

(Moderators: **Prof. K. DAOUDI & K. EL ANOUZ & L. BALLI**)

OC-111	ABERKAN ILHAM	<a href="mailto:ilham.aberkan@ump.ac.ma">ilham.aberkan@ump.ac.ma</a>	Clay-Based Polymer Composites: From Enhanced Properties To Emerging Applications
OC-112	HAFFSA CHAFIK	<a href="mailto:hafsachafik95@gmail.com">hafsachafik95@gmail.com</a>	Influence Of Silver Content On Vibrational Properties Of Ag-Ni Metallic Glasses
OC-113	KAMAL KERKICH	<a href="mailto:kamal.kerkich@etu.uae.ac.ma">kamal.kerkich@etu.uae.ac.ma</a>	An Overview Of The Analysis And Extraction Methods Of Pesticides Considered As Emerging Micropollutants In Food Products: Case Of Honey Products
OC-114	WATTATI HIND	<a href="mailto:h.wattati.ced@uca.ac.ma">h.wattati.ced@uca.ac.ma</a>	Eco-Friendly Preparation Of Cellulose Carbamate As An Advanced Sustainable Material
OC-115	OUAÏSSA KHADIJA	<a href="mailto:khadijaouaissa89@gmail.com">khadijaouaissa89@gmail.com</a>	Sustainable And Climate-Resilient Strategies For Reusing Aquaculture Water In Fish Farming
OC-116	TAHERI FATIMA ZAHRA	<a href="mailto:fatimazahra.taheri@etu.uae.ac.ma">fatimazahra.taheri@etu.uae.ac.ma</a>	Valorization Of An Edible Mushroom From Northern Morocco: Chemical Characterization And Antioxidant Activity
OC-117	CHAYMAE TSOULI	<a href="mailto:Tsoulichaymae.rfm@gmail.com">Tsoulichaymae.rfm@gmail.com</a>	Hydrogeochemical And Microbiological Assessment Of Groundwater Quality In The Fez-Meknes Aquifer Using Water Quality Index, Microbiological Quality Index And Heavy Metal Pollution Index

### Room V-17 (17:00-18:30)

(Moderators: **Prof. L. BENAABIDATE & L. RIDA & M'H. AHARI**)

OC-118	BEN HSAIEN NEZHA	<a href="mailto:benhssaien.nezha@gmail.com">benhssaien.nezha@gmail.com</a>	Optimisation De La Culture De La Spiruline (Arthrospira Platensis) Pour Une Production Durable De Biomasse : Contribution A La Gestion Durable De L'eau Et A La Résilience Des Systèmes De Production Face Au Changement Climatique
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OC-119	AYOUB EL BAKKALI	<a href="mailto:ayoub.elbakkali@etu.uae.ac.ma">ayoub.elbakkali@etu.uae.ac.ma</a>	Benthic Foraminifera As Bioindicators Of Ecological Quality In The Loukkos Estuary (Larache, Morocco)
OC-120	BOUSSIF WALID	<a href="mailto:walid.boussif@usms.ma">walid.boussif@usms.ma</a>	Sustainable Pest Management In Mint Cultivation: Evaluation Of Pesticide Practices And Eco-Friendly Alternatives In The Béni Mellal Region (Morocco)
OC-121	YOUNES AZOUZ	<a href="mailto:azzouzy818@gmail.com">azzouzy818@gmail.com</a>	Hybrid Tamm Plasmon / Quasi-BIC Structure For Enhanced Light Absorption In Thin-Film Solar Cells: An Analytical Study
OC-122	TANGHOURTE MOHAMED	<a href="mailto:m.tanghourte@edu.umi.ac.ma">m.tanghourte@edu.umi.ac.ma</a>	Theoretical And Experimental Study Of The Inhibition Of Carbon Steel Corrosion In A 1 M Hcl Solution By A New Synthesized Organic Compound Derived From A Colored Indicator.
OC-123	NAJJAR OUAFAE	<a href="mailto:ouafae.najjar@usmba.ac.ma">ouafae.najjar@usmba.ac.ma</a>	Groundwater Hydrochemistry And Water Quality Evaluation In The Eastern Rif Region (Northern Taza, Morocco)
OC-124	NAOUAL LACHHEB	<a href="mailto:rif3phil@gmail.com">rif3phil@gmail.com</a>	Building Environmental Beliefs And Sustainable Knowledge In Bertrand Russell's Philosophy
OC-125	MOUAOUIYA BENSALD	<a href="mailto:mouaouiya.bensaid@etu.uae.ac.ma">mouaouiya.bensaid@etu.uae.ac.ma</a>	Thermo-Physical and Geotechnical Comparison of Fired Clay Bricks Produced from Oujda and Zayo Soils, Morocco
<b>Room V-18 (17:00-18:30)</b> (Moderators: <b>Profs. M. CHOUKAIRI &amp; M. EL HAIM &amp; M. EL MASSAUDI</b> )			
OC-126	MOUNSEF LAAMACH	<a href="mailto:laamach.mounsef@gmail.com">laamach.mounsef@gmail.com</a>	Mapping Suitable Sites And Selecting Structures For Artificial Groundwater Recharge Using HEC-HMS And Multi-Influencing Factors Method In The Semi-Arid Aquifer Of Southeastern Taza, Morocco
OC-127	EDDARRAJI KAOUTAR	<a href="mailto:Kaoutareddarraji@gmail.com">Kaoutareddarraji@gmail.com</a>	Decentralized Ammonia Synthesis Under Mild Conditions
OC-128	FATIMA-EZZHRA KERKOUBI	<a href="mailto:fatima-ezzahra.kerkoubi@edu.uiz.ac.ma">fatima-ezzahra.kerkoubi@edu.uiz.ac.ma</a>	Thermodynamic Description Of Ce-In Binary System By CALPHAD Supported By Ab Initio Calculations
OC-129	QORRYCH KHAWLA	<a href="mailto:khaoulaaarab155@gmail.com">khaoulaaarab155@gmail.com</a>	Automated Tool For Mapping The Vulnerability Of Groundwater To Diffuse And Marine Pollution
OC-130	ABDELJABAR ABOULKASSIM	<a href="mailto:abdelfabar.aboukassim@edu.uiz.ac.ma">abdelfabar.aboukassim@edu.uiz.ac.ma</a>	Experimental And DFT Study Of Structural And Superconducting Enhancement In High-Temperature Superconductors
OC-132	NAMAT NADIA	<a href="mailto:nadia.namat@edu.uiz.ac.ma">nadia.namat@edu.uiz.ac.ma</a>	A Thermodynamic Modeling Of The Th-In System Acquired Via A Hybrid Approach Of CALPHAD And Ab-Initio Calculations.
OC-133	GHITA AMECHATTE	<a href="mailto:Ghita.AMECHATTE@um6p.ma">Ghita.AMECHATTE@um6p.ma</a>	Extreme Salinity Overrides Host Specificity In Plant-Associated Microbiomes Of Moroccan Sabkhas
OC-134	DILSHODJON MUMINOV	<a href="mailto:dilshod.mominov@list.ru">dilshod.mominov@list.ru</a>	Chemical Composition and Bioactive Compounds of <i>Cystopteris fragilis</i> distributed in Zerafshan Valley, Uzbekistan
<b>Room V-19 (17:00-18:30)</b> (Moderators: <b>Profs. M. ELAZZOUI &amp; M. HILMI</b> )			
OC-135	ETTAKIFI HAJAR	<a href="mailto:hajar.ettakifi@etu.uae.ac.ma">hajar.ettakifi@etu.uae.ac.ma</a>	Evaluation Of The Antifungal Activity Of Tanacetum Annuum Crude Extracts Against Fusarium Oxysporum And Alternaria Alternata, Phytopathogenic Fungi Responsible For Plant Diseases In Morocco.
OC-136	LACHHAB REDOUANE	<a href="mailto:lachhabred1@gmail.com">lachhabred1@gmail.com</a>	Synergistic Effects Of Phosphorus, Tin, And Iron On The Long-Term Corrosion Resistance Of Two-Phase (A + B) Brasses In Chloride- And Sulfate-Rich Soils
OC-137	BRYK MUSTAPHA	<a href="mailto:mustaphabryk@gmail.com">mustaphabryk@gmail.com</a>	Optimization Of Chalcopyrite-Structured CIGS Solar Cells: Effects Of Gallium Doping On Absorber Layer Performance Using DFT+U Calculations.
OC-138	EL BOUHMDI AHMED	<a href="mailto:ahmed.elbouhmid@etu.uae.ac.ma">ahmed.elbouhmid@etu.uae.ac.ma</a>	Advanced Optimization Strategies for Composite Buckling: Bonobo and Minimax Methods
OC-139	MOHAMED EL FARKHANI	<a href="mailto:mohamed.elfarkhani@ump.ac.ma">mohamed.elfarkhani@ump.ac.ma</a>	Preparation of a Novel Deep Eutectic Solvent and Its Application in Biopolymer Processing
OC-140	BENSITEL NIHADE	<a href="mailto:nihade.bensitel@gmail.com">nihade.bensitel@gmail.com</a>	Valorization of Drinking Water Treatment Sludge: Pathways Toward Circular Economy and Sustainable Resource Management
OC-141	RACHID TISKATINE	<a href="mailto:r.tiskatine@uae.ac.ma">r.tiskatine@uae.ac.ma</a>	Thermophysical Characterization Of Natural Rocks: Advancing Thermal Storage And Energy Efficiency In Sustainable Building Construction
OC-142	KOUBAA ZAKARYAE	<a href="mailto:koubaazakaryae@gmail.com">koubaazakaryae@gmail.com</a>	Seasonal Trace-Metal Contamination in the Coastal Waters of Al Hoceima Bay (Mediterranean, Morocco)
<b>Room V-20 (17:00-18:30)</b> (Moderators: <b>Profs. M. S. HASSANI ALAOUI &amp; M. GHALIT &amp; M. AKRI</b> )			
OC-143	CHAIMAE ELYAACOUBI	<a href="mailto:elyaacoubi.chaimae@etu.uae.ac.ma">elyaacoubi.chaimae@etu.uae.ac.ma</a>	Sustainable Wastewater Sludge Management: Valorization Pathways through Life Cycle Assessment and Techno-Economic Perspectives
OC-144	TAWFIK AHALI	<a href="mailto:ahallitaoufik@gmail.com">ahallitaoufik@gmail.com</a>	Statistical study of the physicochemical characteristics of groundwater in the Ghis-Nekor aquifer - Morocco: By hydrochemical analysis
OC-145	AMINE SAMIH	<a href="mailto:nomadastigma@gmail.com">nomadastigma@gmail.com</a>	Réponse De La Complexité Des Constellations Plantes-Abeilles Sauvages Aux Changements Paysagers Dans La Subéraie ( <i>Quercus Suber</i> L.) De Larache
OC-146	JAMILA BOUCHGL	<a href="mailto:jamila.bouchgl@gmail.com">jamila.bouchgl@gmail.com</a>	Assessment of Crack Propagation in Pressure Equipment under Static Loading: Analytical, Finite Element, and XFEM Approaches
OC-147	HANANE MARZOUKI		Groundwater Storage Dynamics in the Guir Aquifer under Variable Rainfall and Drought Conditions in the Guir aquifer (Morocco)
OC-148	HANANE MARZOUKI		Geogenic and Anthropogenic Origin of Groundwater Salinity in the Guir Basin (Eastern High Atlas, Morocco) Groundwater in the Guir Basin,
OC-149	BAHOUAR EL-HOUSSAINE	<a href="mailto:el-houssaine.bahouar@usms.ma">el-houssaine.bahouar@usms.ma</a>	Changement du régime hydrologique et pénurie d'eau dans un écosystème lacustre semi-aride : étude de cas du lac Abkhan (Moyen Atlas marocain) à l'aide de la télédétection et d'indices de sécheresse
OP-150	KAWTAR QASRI BOUAYAD	<a href="mailto:Kawtar.QASRIBOUAYAD@um6p.ma">Kawtar.QASRIBOUAYAD@um6p.ma</a>	Agro-Industrial Waste Valorisation into Bio-Based Substances: Production



			<i>Processes, Physicochemical Properties, and Applications in Sustainable Soil Management.</i>
OC-151	CHAIMAE BENAÏSSA	<a href="mailto:chaimae.benaissa2@etu.uae.ac.ma">chaimae.benaissa2@etu.uae.ac.ma</a>	<i>Integrated Hydrochemical Analysis and Water Quality Index Evaluation of Groundwater in the Bokoya Massif, Northern Morocco</i>
OC-152	AMINA ABOUABDALLAH	<a href="mailto:amina.abouabdilah@gmail.com">amina.abouabdilah@gmail.com</a>	<i>Évaluation du potentiel toxique et du risque sanitaire lié à la contamination des ressources en eau à Taza (Maroc) : approche par indice MI, HQ et HI</i>
OC-153	KARIMA CHERRAK	<a href="mailto:karimacherrak@gmail.com">karimacherrak@gmail.com</a>	<i>Corrosion Inhibition of Copper in 0.5 M H<sub>2</sub>SO<sub>4</sub> by a Pyrazole Derivative: Electrochemical and Molecular Dynamics</i>

## POSTERS

ID	FULL NAME	EMAIL	TITLE
<b>April, 14, 2026</b>			
PP-01	IMANE AJADA	<a href="mailto:imane.ajada@usmba.ac.ma">imane.ajada@usmba.ac.ma</a>	Valorisation of Olive ( <i>Olea europaea</i> L.) Leaves through the Evaluation of Their Extracts: Antioxidant Properties and Phenolic Contents
PP-02	LABHAR AMINA	<a href="mailto:labhar91@gmail.com">labhar91@gmail.com</a>	Traditional use of medicinal plants for respiratory diseases in Al Hoceima (Northern Morocco): urban and protected areas
PP-03	MOUDOU MOHAMED	<a href="mailto:mohamed.moudou@etu.uae.ac.ma">mohamed.moudou@etu.uae.ac.ma</a>	Comparative analysis of the application of a series of groundwater quality indices in the Ghis-Nekor plain and the Bakoya area in northern Morocco
PP-04	BEN ABDELAMLEK KHALIL	<a href="mailto:Khalil.benabdelmalek@etu.uae.ac.ma">Khalil.benabdelmalek@etu.uae.ac.ma</a>	High-Efficiency and Eco-Friendly CZTSe/SnS Heterostructures: Simulation-Based Pathways to Next-Generation Solar Cells
PP-05	OUMAYMA ES-SBAI	<a href="mailto:Oumayma.essbai@um6p.ma">Oumayma.essbai@um6p.ma</a>	Toward sustainable biorefineries: Machine learning-driven integration of biomass characterization, processing, and catalysis
PP-06	KARIMA AIT ALLA	<a href="mailto:k.aitalla@uae.ac.ma">k.aitalla@uae.ac.ma</a>	Phytochemical screening and Antioxidant activity of two species of <i>Mentha</i> wild grown in Northern Morocco
PP-07	FATIMA OUBELLA	<a href="mailto:Fatima.OUBELLA@um6p.ma">Fatima.OUBELLA@um6p.ma</a>	GREEN SYNTHESIS OF CARBON DOTS: A SUSTAINABLE APPROACH FOR CATALYTIC APPLICATIONS
PP-08	YASSMINA AOULAD OMAR	<a href="mailto:Yassmina.AOULAD-OMAR-EXT@um6p.ma">Yassmina.AOULAD-OMAR-EXT@um6p.ma</a>	Efficient Removal of Safranin-O dye from Textile Wastewater Using Raw Agricultural Biomass
<b>April, 15, 2026</b>			
PP-09	NAJWA LAMKADDEM	<a href="mailto:lankaddemnajwa@gmail.com">lankaddemnajwa@gmail.com</a>	Runoff Water Treatment, Bio-Based Materials, Sustainable Water Management, Pollutant Adsorption, Circular Economy
PP-10	MOHAMED EL FAKIRI	<a href="mailto:elfakiri2404@gmail.com">elfakiri2404@gmail.com</a>	Sustainable Hydrogen Production from Biomass: Comparative Insights with Emphasis on Photocatalysis
PP-11	MOHAMED EL FAKIRI	<a href="mailto:elfakiri2404@gmail.com">elfakiri2404@gmail.com</a>	Sustainable Hydrogen Production from Biomass: Comparative Insights with Emphasis on Photocatalysis
PP-12	HAMZA BOUAKLINE	<a href="mailto:h.bouakline@ump.ac.ma">h.bouakline@ump.ac.ma</a>	Encapsulation of <i>Pistacia lentiscus</i> bio-extracts using biopolymeric carriers for enhanced stability and bioactivity
PP-13	KEBDANI ILHAM	<a href="mailto:Ilham.kb91@gmail.com">Ilham.kb91@gmail.com</a>	Impact du déclin des ressources halieutiques sur la pêche artisanale dans la région d'Al Hoceima (Méditerranée marocaine)
PP-14	RAIT MOHAMED AMINE	<a href="mailto:rait.mohamedamine@etu.uae.ac.ma">rait.mohamedamine@etu.uae.ac.ma</a>	Rethinking Groundwater Assessment: A Conceptual Framework for a Customized Quality Index in the Saïss Basin
PP-15	AHLAM OULOUS	<a href="mailto:ahlamoulos1995@gmail.com">ahlamoulos1995@gmail.com</a>	Exploring a Novel Family of Tetrazole-Pyrazole Compounds: Synthesis, Characterization, Antimicrobial Activity, and Docking Analysis
PP-16	HAZYOUN ZINEB	<a href="mailto:zinebhazyoun@gmail.com">zinebhazyoun@gmail.com</a>	Physico-chemical characterization of the soil and inventory of plants growing near the Ain Mkrbta thermal spring in Morocco

**END**