



# Scientific Program

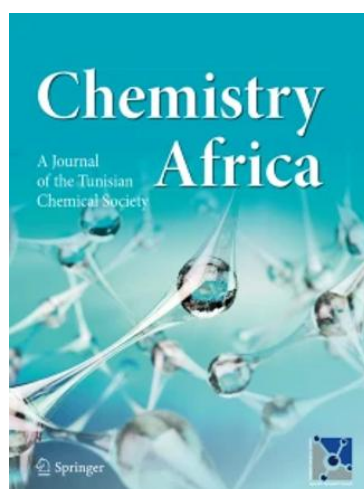
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## Useful information

Participating Countries - Pays Participants - الدول المشاركة



Indexed by:



## WELCOME MESSAGE

Dear Colleagues and participants,

On behalf of the Organizing Committee, we are honored and delighted to welcome you to the *9<sup>th</sup> edition of the International Conference on Materials and Environmental Science – ICMES 2026*, to be held under the theme: " Innovations in **Water** and **Energy Technologies**, and **Materials Science** for **Climate Resilience and Sustainability**". This prestigious event will take place from **June 11 to June 14, 2026**, at the Radisson Blu Resort Saïdia Beach, **Saïdia, Morocco**. The conference is organized by **Mohammed First University, Oujda - Morocco** in collaboration with its esteemed national and international partners, particularly in partnership with the **CEMADES Association**.

Since its inception in **2016**, ICMES has established itself as a high-level international conference, bringing together distinguished scholars, world-class researchers, and leading experts from around the globe. The previous editions were held in **2016 (1st), 2018 (2nd), 2019 (3rd), 2020 (4th), 2022 (5th), 2023 (6th), 2024 (7th), and 2025 (8th)**, consistently attracting a global audience and providing an elite platform for scientific exchange. **ICMES 2026** continues this legacy, serving as a premier forum for the presentation and discussion of pioneering research and innovations in materials science, water, energy development, environmental science, clean energy and health. It aims to foster cross-disciplinary dialogue, inspire novel ideas, and encourage strategic collaborations among leading minds from all regions of the world.

This year's edition promises to be exceptionally enriching, featuring. It will be a great pleasure and privilege to meet you in Saïdia, to celebrate science, innovation, and international cooperation in such a vibrant setting.

We wish all participants of **ICMES 2026** a stimulating and fruitful conference, and a memorable and enjoyable stay in Saïdia, Morocco.

Warm regards,

### GENERAL CHAIRS



Prof. Faouaz Jeffali  
[Short biography](#)  
Mohammed First University  
Oujda – Morocco



Prof. Mohamed Eddaoudi  
[Short biography](#)  
University of KAUST  
Saudi Arabia



Prof. Belkheir Hammouti  
[Short biography](#)  
Euromed University  
FES – Morocco



Prof. Mohamed Sij  
[Short biography](#)  
University of Sherbrooke  
Canada



Prof. Bouchta Sahraoui  
[Short biography](#)  
University of Angers  
France



In a world increasingly shaped by the urgent challenges of sustainability and innovation, materials and energy stand as key drivers for unlocking solutions for our planet's future. In response to these global challenges, **ICMES 2026**, organized by **Mohammed First University, Oujda - Morocco in collaboration with its esteemed national and international partners, particularly in partnership with the CEMADES Association**, emerges as a premier international forum for cutting-edge research. It brings together academic researchers, industry professionals, and multidisciplinary experts to explore new frontiers at the intersection of materials science and energy applications.

This international scientific event serves as a leading platform for scholarly discussions and presentations on advanced materials of natural origin or specifically engineered to address the challenges of sustainable development. The conference will feature plenary sessions delivered by internationally renowned experts.

**ICMES 2026** also offers a dedicated platform for students, providing them with a unique opportunity to present and discuss their research within an integrated academic and professional environment, while fostering meaningful exchanges with leading experts. Furthermore, it constitutes a strategic platform for individuals with innovative ideas in high value-added sectors to strengthen partnerships with industry stakeholders and explore entrepreneurial and innovation-driven opportunities.

The **ICMES** Conference Series on Materials & Energy strongly supports early-career researchers by providing visibility and opportunities for professional development. One of the highlights of **ICMES 2026** will be the Topical School, which continuing the tradition of previous editions will offer exclusive sessions led by internationally renowned speakers, fostering dialogue, mentorship, and advanced knowledge transfer.

### Why Attend ICMES 2026 ?

- Discover cutting-edge research and emerging trends in materials, environmental science, and engineering ;
- Provide young researchers, both national and international, with opportunities to showcase their skills, scientific achievements, and futures prospects ;
- Attend plenary sessions delivered by world-renowned experts;
- Benefit from in-depth tutorial lectures by leading academics ;
- Facilitate exchanges and the transfer of knowledge between academia and industry ;
- Explore high-level scientific presentations showcasing the latest research findings ;
- Participate in interactive workshops and thematic symposia ;
- Promote excellence while fostering creativity and innovation ;
- Network with PhD students, engineers, researchers, and industry professionals ;
- Gain opportunities to publish selected papers in peer-reviewed international journals.

We welcome oral and poster contributions based on accepted abstracts, followed by the submission of full papers. Conference sessions will be organized into carefully curated thematic tracks.

**VENUE: HOTEL RADISSON BLU RESORT SAIDIA BEACH**



## CONFERENCE PLAN

The conference venue includes five rooms (ROOM1, ROOM2, ROOM3, ROOM4 and ROOM5). one main Conference Hall, and a Registration Room (Registration Office).

**Participants are kindly requested to follow the directional arrows to reach the different rooms.**



**HOTEL RECEPTION**

## SESSIONS

HEALTH: BIOCHEMISTRY, NUTRITION AND PHARMACOLOGY

WATER, SOIL, AIR, AGRICULTURE AND ENVIRONMENTAL ISSUES

GREEN ENERGY, RENEWABLE, STORAGE AND SUSTAINABLE DEVELOPMENT

ARTIFICIAL INTELLIGENCE (AI), ELECTRICAL ENGINEERING AND SIMULATION

ADVANCED MATERIALS FOR OPTOELECTRONICS AND PHOTONICS APPLICATIONS

NATURAL PRODUCTS AND THEIR BIOTECHNOLOGICAL APPLICATIONS

ADVANCED MATERIALS FROM ORGANIC AND INORGANIC DEVICES

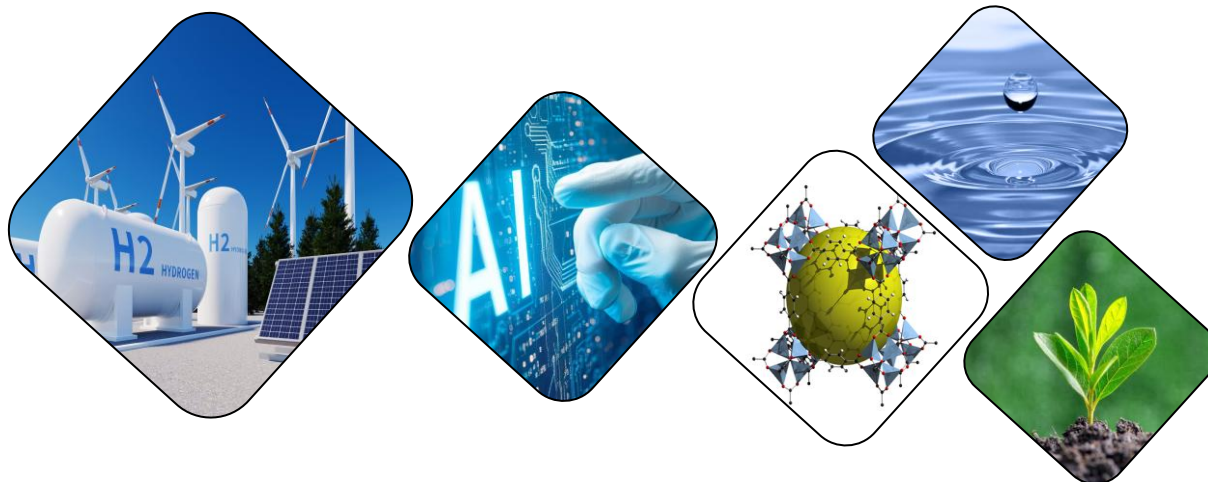
## ACRONYM OF CONFERENCE THEMES

**SG** Special Guest  
**KS** Keynote Speakers  
**IS** Invited Speakers

**OP** Oral Presentation  
**PP** Poster Presentation

## PRESENTATION GUIDELINES

- All presentations are in English.
- Each presentation is eight **(08) minutes** long with three (3) minutes for Q/As.
- Arrive 10 minutes before the session start time to upload your power point presentation. Please, start and end your presentation on time and keep the time schedule.
- For poster presentations, the posters should be displayed one hour before the beginning of the poster session and any explanation required should be provided to CHAIRS and visitors.



## COMITTEES

### Honor committee

**Mr. Azzedine EL MIDAOU**, Minister of Higher Education, Scientific Research and Innovation.  
**Mr. Yassine ZARHLOULE**, President of Mohammed First University – Oujda.  
**Mr. Mohamed EBN TOUHAMI**, President of Ibn Tofail University – Kenitra.  
**Ms. Jamila EL ALAMI**, Director of National Center for Scientific & Technical Reasearch – Rabat.  
**Mr. Abdelhafid CHAFI**, Director of the Higher School of Technology – Oujda.  
**Mr. El Bekkaye MAAROUF**, Dean of the Faculty of Sciences – Oujda.  
**Mr. Driss DRIOUCHI**, Dean of the Faculty of Law, Economics and Social Sciences – Oujda.  
**Mr. Khalid SERRAJ ANDALOUSSI**, Dean of the Faculty of Medicine and Pharmacy – Oujda.  
**Mr. Ali AZDIMOUS**, Dean of Multidisciplinary Faculty – Nador.  
**Mr. Mohamed ATOUNTI**, Director of the Higher School of Technology – Nador.  
**Mr. Abdelali KAAOUACHI**, Director of National School of Commerce and Management – Oujda.  
**Mr. El Houcine OUCHNI**, Dean of the Faculty of Letters and Human Sciences – Oujda.

### General Chairs

**Prof. Mohamed EDDAOUDI**, AMPMRC, KAUST University, Saudi Arabia.  
**Prof. Faouaz JEFFALI**, Mohammed First University, Oujda, Morocco.  
**Prof. Belkheir HAMMOUTI**, Euromed University, Fez, Morocco.  
**Prof. Bouchta SAHRAOUI**, Angers University, France.  
**Prof. Mohamed SIAJ**, Sherbrooke University, Quebec, Canada.

### General co-Chairs

**Prof. Rachid TOUZANI** (FSO, Morocco).                      **Prof. Jamal MOUSSA** (Univ. of Sorbonne, France).  
**Prof. Abdelouahad AOUINTI** (FSO, Morocco).            **Prof. Charafeddine JAMA** (Univ. of Lille, France).

### Organization Committee

**Prof. Mircea A. MATEESCU** (Canada)                      **Prof. Mama El RHAZI** (Morocco)  
**Prof. Mohcine KODAD** (Morocco)                      **Prof. Abdelkrim EL-GHAYOURY** (France)  
**Prof. Fiorenzo VETRONE** (Canada)                      **Prof. Nouredine ABIDI** (USA)  
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**Prof. Mohamed ABOU-SALAMA** (Morocco)                      **Prof. Imane AARAB** (Morocco)

### Program & Orientation Committee

**Prof. Mohcine KODAD** (Morocco)                      **Prof. Chaymae ABERKANE** (Morocco)  
**Prof. Ossama EL ABOUTI** (Morocco)                      **Prof. Jamal HADADI** (Morocco)

### Phd Student Committee

Amrani Noughaila (FS, UMP, Oujda, Morocco)                      Laksir Asmae (FS, UMP, Oujda, Morocco)  
Himri Khadija (EST, UMP, Oujda, Morocco)                      Mekadmi Sara (EST, UMP, Oujda, Morocco)  
Ridal Ziloukha (FS, UMP, Oujda, Morocco)                      Benmehdi Abdelilah (FS, UMP, Oujda, Morocco)  
Karrach Ghizlane (EST, UMP, Oujda, Morocco)                      Elaoulabine Yasmine (FMP, Rabat, Morocco)  
Dakhli Yosra (FS, UMP, Oujda, Morocco)                      M'harzi Abdh Hakim (FS, UMP, Oujda, Morocco)  
Bouglada Sara (FS, UMP, Oujda, Morocco)                      Benahmed Badr-Eddine (EST, UMP, Oujda, Morocco)  
Zahout Ayoub (EST, UMP, Oujda, Morocco)                      Fatima Zohra Harroui (FSTH, Al Hoceima, Morocco)  
Abbaoui Zakariae (FS, UMP, Oujda, Morocco)                      Yousra Kachbou, (UEMF, Fes, Morocco)  
Talssi Farahe (EST, UMP, Oujda, Morocco)                      Zaki Zakaria (FS, UMP, Oujda, Morocco)

## Scientific Committee

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- Prof. EDDAOUDI MOHAMED, King Abdullah University of Science and Technology, **Saudi Arabia**
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- Prof. ZIANI ELMOSTAFA, Higher School of Technology of Oujda, **Morocco**
- Prof. EL BARKANY ABDELLAH, Sidi Mohammed Ben Abdellah University, Fez, **Morocco**
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- Prof. HURIYE AKDAS-KILIC, Yildiz Technical University, **Turkey**
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- Prof. CLEMENT CAMP, University Claude Bernard, Lyon1, **France**
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- Prof. YOUICHI TSUCHIYA, Center for Organic Photonics and Electronics Research, **Japan**
- Prof. ZOUGGAR SMAIL, Higher School of Technology of Oujda, **Morocco**
- Prof. RICARDO IZQUIERDO, Higher School of Technology, Montréal (Québec), **Canada**
- Prof. GALAI MOUHSINE, Faculty of Science, Kenitra, **Morocco**
- Prof. SOUHIR BOUJDAY, University of Sorbonne, **France**
- Prof. AZZAOU KHALIL, Faculty of Science, Fez, **Morocco**
- Prof. NOUNEH KHALID, Faculty of Science, Kenitra, **Morocco**
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- Prof. NOUAL ADNANE, Faculty of Science, Oujda, **Morocco**
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- Prof. ABDELOUAHAD OUSSAID, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. BENDAHHOU AMINE, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. CHOURTI KARIM, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. KOUDAD MOHAMMED, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. EL MIZ MOHAMED, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. EL AATIAOUI ABDELMALIK, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. LOUTOU MOHAMED, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. AKICHOUH EL HOUSSEIN, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. BOUROUMANE NADIA, Polydisciplinary Faculty, Nador, **Morocco**
- Prof. TRIKI SMAIL, University of Western Brittany, **France**

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- Prof. PENG CHENG, Nankai University, **China**
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- Prof. JIAN-GONG MA, Nankai University, **China**
- Prof. DRISS AMEGOUZ, Sidi Mohamed Ben Abdellah University of Fez, **Morocco**
- Prof. FOUAD MALEK, Mohammed First University, Oujda, **Morocco**
- Dr. BOUTAINA REZKI, Mohammed VI Polytechnic University (UM6P), **Morocco**
- Prof. YOUSSEF ABOUSSALEH, Ibn Tofail University, **Morocco**
- Prof. LARBI RHAZI, UniLaSalle, **France**
- Prof. MOHAMED MELLAH, Université Paris-Saclay, **France**
- Prof. MOHAMED AMIN EL AMRANI, Faculty of Sciences, Tetouan, **Morocco**
- Prof. BENAICHI MOHAMMED, EHEI, Oujda, **Morocco**
- Prof. ANATOLIY ANDRUSHCHAK, Lviv Polytechnic National University, **Ukraine**
- Prof. HALYNA MYRONCHUK, Lesya Ukrainka Volyn National University, Lutsk, **Ukraine**
- Prof. OMAR BEN LENDA, National School of Mines - ENSM of Rabat, **Morocco**
- Prof. HBAIZ EL MAHDI, Ibn Tofail University, Kenitra, **Morocco**
- Prof. AOUANE EL MAHJOUR, Ibn Tofail University, Kenitra, **Morocco**
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- Prof. ANNA MIGALSKA-ZALAS, Jan Dlugosz University in Czestochowa, Czestochowa, **Poland**
- Prof. DAOUDI Hajar, Faculty of Medicine and Pharmacy, Rabat, **Morocco**
- Prof. ABDERRAHIM BOUAID, Complutense University of Madrid, **Spain**
- Dr. Mustapha Matrouf, Mohammed VI Polytechnic University, Ben Guerir, **Morocco**
- Prof. Fouad Ghamouss, Mohammed VI Polytechnic University, Ben Guerir, **Morocco**
- Dr. Abderrahman Mellalou, Mohammed VI Polytechnic University, Ben Guerir, **Morocco**
- Prof. Abdelhadi El Jaouhari, Mohammed VI Polytechnic University, Ben Guerir, **Morocco**
- Prof. Geoffrey Promis, University of Picardy Jules Verne (UPJV), Amiens, **France**

## OUR KEYNOTE SPEAKERS



Prof. Omar M. Yaghi

Winner of the 2025 Nobel Prize in Chemistry



James and Neeltje Tretter Professor of Chemistry  
University of California, Berkeley  
(USA)

[Short biography](#)  
[Abstract](#)



Prof. Mohamed Eddaoudi

University of KAUST  
(Saudi Arabia)

[Short biography](#)  
[Abstract](#)



Prof. Souhir Boujday

University of Sorbonne  
(France)

[Short biography](#)  
[Abstract](#)



Prof. Youichi Tsuchiya

Kyushu University  
(Japan)

[Short biography](#)  
[Abstract](#)



Prof. Bouchta Sahraoui

University of Angers  
(France)

[Short biography](#)  
[Abstract](#)



Prof. Jian-Gong Ma

Nankai University  
(China)

[Short biography](#)  
[Abstract](#)



Prof. Clément Camp

University Claude Bernard  
(France)

[Short Biography](#)  
[Abstract](#)



Prof. Abdelkrim El-Ghayoury

University of Angers  
(France)

[Short Biography](#)  
[Abstract](#)



Prof. Jamal Moussa

University of Sorbonne  
(France)

[Short Biography](#)  
[Abstract](#)





**Prof. Zakaria Halime**  
Paris-Saclay University  
(France)

[Short Biography](#)  
[Abstract](#)



**Prof. Jacques Huot**  
University of Québec  
(Canada)

[Short Biography](#)  
[Abstract](#)



**Prof. Nicolas Illy**  
University of Sorbonne  
(France)

[Short Biography](#)  
[Abstract](#)



**Prof. Peng Cheng**  
Nankai University  
(China)

[Short Biography](#)  
[Abstract](#)



**Prof. Pascal Marchet**  
University of Limoges  
(France)

[Short Biography](#)  
[Abstract](#)



**Prof. Hassan Ait Ahsaine**  
Mohammed V University  
(Morocco)

[Short Biography](#)  
[Abstract](#)



**Prof. Ibrahim Abdellah**  
University of Lorraine  
(France)

[Short Biography](#)  
[Abstract](#)



**Prof. Mohamed Siaj**  
University of Sherbrooke  
(Canada)

[Short Biography](#)  
[Abstract](#)



**Prof. Mohamed Nawfal Ghazzal**  
Paris-Saclay University  
(France)

[Short Biography](#)  
[Abstract](#)



**Prof. Yann Garcia**  
Catholic University of Louvain  
(Belgium)

[Short Biography](#)  
[Abstract](#)



**Prof. Mohamed OUCHRIF**  
Mohammed First University  
(Morocco)

[Short Biography](#)  
[Abstract](#)



**Prof. Mohamed Mellah**  
Université Paris-Saclay  
(France)

[Short Biography](#)  
[Abstract](#)



**Prof. Mohammed Jaouad Meziani**  
Northwest Missouri State Univ.  
(USA)

[Short Biography](#)  
[Abstract](#)



**Prof. José L. GUIL-Guerrero**  
University of Almería  
(Spain)

[Short Biography](#)  
[Abstract](#)



**Prof. Wilson Agerico Diño**  
Osaka University  
(Japan)

[Short Biography](#)  
[Abstract](#)




**Prof. Said Taboukhat**  
University of Angers  
(France)

[Short Biography](#)  
[Abstract](#)



# Detailed Scientific Program

## Day 1 Thursday, June 11, 2026

15:00 - 17:00	<b>ICMES2026: Speakers' Visit to Mohammed First University, Oujda, Morocco</b>	 <p style="font-size: small; text-align: right;">جامعة محمد الأول بوجدة UNIVERSITE MOHAMMED PREMIER OUIDA ⵜⴰⵎⴻⵔⴰⵏⵜ ⴰⵎⴻⵔⴰⵏⵏⵉ ⴰⵎⴻⵔⴰⵏⵏⵉ</p>
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## Day 2 Friday, June 12, 2026

07:00 - 09:00	<b>Welcome &amp; Registration of participants</b> <b>“Hotel Radisson Blu Resort Saïdia Beach, Saïdia, Morocco”</b> <b>Registration Office</b>	
09:00 – 09:15	<b>Opening speech of ICMES’26 Scientific Committee</b> <b>Conference Hall</b> <b>Chair: Prof. Jamal Haddadi</b>	
	<b>Prof. Mohamed Eddaoudi, KAUST University, Saudi Arabia</b> <b>Prof. Belkheir Hammouti, Euromed University, Morocco</b> <b>Prof. Bouchta Sahraoui, University of Angers, France</b> <b>Prof. Mohamed Siaj, University of Sherbrooke, Canada</b> <b>Prof. Faouaz Jeffali, Mohammed First University, Morocco</b> <b>Prof. Jamal Moussa, University of Sorbonne, France</b> <b>Prof. Rachid Touzani, Mohammed First University, Morocco</b> <b>Prof. Charafeddine Jama, University of Lille, France</b>	
09:20 – 09:45	<u><b>PLENARY CONFERENCE #1</b></u> <b>Prof. Souhir Boujday - University of Sorbonne (France)</b> <b>“Bridging Surface Chemistry and Nanoplasmonics: From Fundamental Reactivity to Biosensing Devices”</b> <b>Chairs: Prof. Jamal Moussa &amp; Prof. Hajar Daoudi</b>	<b>Conference Hall</b>
09:50 – 10:15	<u><b>PLENARY CONFERENCE #2</b></u> <b>Prof. Ibrahim Abdellah - University of Lorraine (France)</b> <b>“ A Sustainable, Metal-Free Route to Amides via Visible-Light ConPET Carbonylation of Alkyl Iodides”</b> <b>Chairs: Prof. Zakaria Halime &amp; Prof. Lahcen Zouhri</b>	<b>Conference Hall</b>

10:20 – 10:45	<p><b><u>PLENARY CONFERENCE #3</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Wilson Agerico Diño</b> - Osaka University (<b>Japan</b>)  <b>“C<sub>2</sub>H<sub>4</sub> Supersonic Molecular Beam Dissociation and Graphene Formation on Cu(410) and Cu(111)”</b></p> <p>Chairs: Prof. Charafeddine Jama &amp; Prof. Rachid Touzani</p>
10:50 – 11:15	<p><b><u>PLENARY CONFERENCE #4</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Jian-Gong Ma</b> - Nankai University (<b>China</b>)  <b>“Application of activated carbon supported metal oxides in the toluene disproportionation to produce p-xylene”</b></p> <p>Chairs: Prof. Mama El Rhazi &amp; Prof. Belkheir Hammouti</p>
11:15 -11:30	<p><b>Poster Session / Stands</b></p>
11:30– 13:00 <b>ROOM 1</b>	<p><b>SESSION #1</b> HEALTH: BIOCHEMISTRY, NUTRITION AND PHARMACOLOGY  Chairs: Prof. Souhir Boujday, Prof. Pascal Marchet &amp; Prof. Touria Hachi</p> <p><b>(ID1):</b> « <i>Toxicological Characterization of Cerastes cerastes Venom: Lethality, Hemorrhagic Activity, and Coagulation Disturbances</i> » <b>Mesmoudi Nihal</b>, Nouredine Hammani, Khawla Ammouch, Siham Mesmoudi, Samir Ibenmoussa, Abdellah Moustaghfir, Naoual Oukkache.</p> <p><b>(ID2):</b> « <i>Comparative Biochemical, Hematological, and Toxicity Effects of Androctonus mauretanicus and Buthus occitanus Venoms in Central of Morocco</i> » <b>Khawla Ammouch</b>, Nouredine Hammani, Reda Chahir, Nihal Mesmoudi, Salma Chakir, Samir Ibenmoussa, Abdellah Moustaghfir, Naoual Oukkache.</p> <p><b>(ID46):</b> « <i>Phytochemical composition and bioactivity of selected medicinal plants for potential oral applications</i> » <b>Yasmine Elaoulabine</b>, Chadia Ouzzani, Tarik Chileh-Chelh, Mohamed Ezzaitouni, Abdellah Moustaghfir, Ana Minerva García-Cervantes, Salima Haddou, Ferdaous Al-Ferjani, José Luis Guil-Guerrero.</p> <p><b>(ID128):</b> « <i>Study of the antibacterial and antioxidant activities of Tetraclinis articulata</i> » <b>Hind Ouhaddouch</b>, Hajar Daoudi, Abdelhak Chergui, El Amine Ajal, Imane Zakariya, Rachid Nejjari.</p> <p><b>(ID159):</b> « <i>Goat Milk Modulates Metabolic and Inflammatory Responses in Obesity</i> » <b>Fatima-Zahra Yassif</b>, Oualid Abbousi, Kaoutar Ejja, Asmaa Benayad, Douae Benloughmari, Youssef Aboussaleh.</p> <p><b>(ID175):</b> « <i>Fatigue Behavior of Knee Prostheses: A Review of Materials, Mechanisms, and Analysis Approaches</i> » <b>Amina Ramdane</b>, Mohammed Abbadi, Abdeljaouad Najib.</p> <p><b>(ID204):</b> « <i>Essential Oils as Natural Antifungal and Antioxidant Agents for Post-Harvest Food Preservation</i> » <b>M'harzi Abdelhakim</b>, Kaoutar Aboukhalid, Rachid Touzani, Aziz Boulouiz, Nadia Houmy.</p> <p><b>(ID212):</b> « <i>Tree age as a determinant of sweet cherry fruit quality: Morphological and physicochemical properties</i> » <b>Zahra El Kettabi</b>, Kaoutar Elfazazi, Laila Ouardi, Chaimae El-rhouttais, Abdelmajid Haddioui, Atman Adiba, Salah Laaraj, Jamal Charafi.</p> <p><b>(ID205):</b> « <i>Clinical treatment of Sourdough and its effect on type 1 diabetes</i> » <b>MOUJABBIR sara</b>, ABOUKHALAF Abdelghani, HAMOUSSI Youssef</p> <p><b>(ID118):</b> « <i>Aromatherapy: survey of the use of essential oils at Sheikh Zayed Hospital</i> » <b>Daoudi Hajar</b>, K. Touzani, H. Ouhaddouch, EL A. Ajal, A. Chergui, I. Zakariya, R. Nejjari.</p> <p><b>(ID203):</b> « <i>In Vitro Evaluation of the Wound Healing Potential of Raw Honey, Sugars, and Methanolic Extracts</i> » <b>Abdelilah Benmehdi</b>, Elnur Garayev, Rachid Touzani, Béatrice Baghdikian, Mohammed Ramdani.</p>


<p><b>11:30– 13:00</b> <b>ROOM 2</b></p>	<p><b>SESSION #2</b> WATER, SOIL, AIR, AGRICULTURE AND ENVIRONMENTAL ISSUES <b>Chairs: Prof. Mohamed Nawfal Ghazzal, Prof. Lahcen Zouhri &amp; Prof. Nicolas Illy</b></p>
	<p><b>(ID3):</b> « <i>Synergistic Combination of Clay Minerals and Photocatalytic Techniques for Wastewater Treatment</i> » <b>Chaïma Draïgui</b>, Lamy Kadiri, El Mahdi Hbaiz.</p> <p><b>(ID8):</b> « <i>Synthesis and Characterization of ALG-Fe@ZIF-67/Fe Composite Beads for Efficient Ciprofloxacin Removal from Aqueous Solutions</i> » <b>Bouglada Sara</b>, Hajar Dihaji, Rachid Touzani, Aziz Boulouiz, EL Mehdi Haily.</p> <p><b>(ID12):</b> « <i>Environmental Kuznets Curve, Climate Variability, and Water Stress in a Semi-Arid Country: Evidence from Morocco</i> » <b>JABRI AbdelKarim</b>, Yahyaoui Rachid.</p> <p><b>(ID17):</b> « <i>PANI-TiO<sub>2</sub> Electropolymerized Composite Coatings for Superior Corrosion Resistance of AA6060 Aluminum Alloy in Saline Environments</i> » <b>Khawla El Khammassi</b>, Yasmina Elaoufir, Omar Benali, Hamid Erramli.</p> <p><b>(ID32):</b> « <i>From Access to Impact: How Scientific Communication and Open Access Shape the Visibility of Climate-Resilient Innovations in Water and Energy</i> » <b>Rahili Bouchra</b>.</p> <p><b>(ID38):</b> « <i>Enhanced Valorization of urban sludge through H<sub>2</sub>SO<sub>4</sub>-assisted solvothermal carbonization and physical treatment for Red 80 dye adsorption and wastewater treatment</i> » <b>Majda Ben Ali</b>, Yassmina Bakhtaoui, Loubna Bouhachlaf, Najoua Labjar, Souad El Hajjaji.</p> <p><b>(ID41):</b> « <i>Flood Risk Mapping for Environmental Management: A Review of Geospatial and Artificial Intelligence Approaches</i> » <b>Amal Hammouti</b>, Anas Bahi.</p> <p><b>(ID42):</b> « <i>Development and Characterization of a Polyaniline-Based Biocomposite with Agricultural Biomass: Application for the Adsorption of Orange G Dye</i> » <b>Yassmina Bakhtaoui</b>, Majda Ben Ali, Abdelghani Hsini, Moussa Ouakki, Zitouni Ennajih, Nabila El Azzouzi, Bousalham Srhir.</p> <p><b>(ID50):</b> « <i>Counterion-driven Solid-phase Separation for the Removal of Cr(III), Pb(II), and Cu(II) using Potassium Alkyl Sulfate Surfactants</i> » <b>Anass El Meskine</b>, Redouane Beniazza, Bouchaib Mouhsine.</p> <p><b>(ID51):</b> « <i>Evaluation of the Environmental Impacts of Compressed Earth Blocks from Phosphate Mining By-Products – A Life Cycle Assessment Study</i> » <b>Khaoula Mouih</b>, Safaa Mabroum, Aïman El Machi, Mohammed Mansori, Rachid Hakkou.</p> <p><b>(ID52):</b> « <i>Diurnal and nocturnal variability of Black Carbon in a coastal city: A case study of Safi, Morocco</i> » Lachhab Abdeslam, <b>Anas Otmani</b>, Ouadie Kabach, Brahim EL Azzaoui, Lina Dinia, Abdellatif Nachab, El Mahjoub Chakir.</p>
<p><b>11:30– 13:00</b> <b>ROOM 3</b></p>	<p><b>SESSION #3</b> GREEN ENERGY, RENEWABLE, STORAGE AND SUSTAINABLE DEVELOPMENT <b>Chairs: Prof. Zineb Kassab, Prof. Jacques Huot &amp; Prof. Mohamed Mellah</b></p> <p><b>(ID6):</b> « <i>Waste-derived bio-collectors for climate-resilient mineral processing: Application of spent coffee grounds in phosphate flotation</i> » <b>Imane Aarab</b>, Khalid El Amari, Dongsheng He, Yanhong Fu, Abderrahman Etahiri.</p> <p><b>(ID14):</b> « <i>Exploring the synthesis of Spinel Manganese Oxide Cathodes for Aqueous Zinc-ion Battery Applications</i> » <b>Hamza Afaryate</b>, Mehdi Karbak, Mohamed Kerroumi, Mohamed Aqil, Herve Martinez, Bouchaib Manoun, Youssef Tamraoui, Fouad Ghamouss.</p> <p><b>(ID18):</b> « <i>Reinforced Polysulfone/Polyvinylpyrrolidone Ion-Solvating Membranes for High-Performance Alkaline Water Electrolysis</i> » <b>Mina Jellab</b>, Ahlam Essate, Loubna Ahsaini, Mustapha Matrouf, Fatima-Zahra Semlali, Fouad Ghamouss.</p> <p><b>(ID33):</b> « <i>Tailoring Ruddlesden-Popper Phases for Sustainable Biofuel Synthesis: A Combined Catalytic and Response Surface Methodology Approach for Circular Refineries.</i> » <b>Abderrahim Bouaid</b>, Noelia Blanco Pino, Khalid Boulahya.</p>

- (ID29):** « *Modeling and virtual design of an integrated physico-chemical process for the selective valorization of olive mill wastewater* » **Yetto oubza**.
- (ID26):** « *Unveiling electrochemical insights of lithium manganese oxide cathodes from manganese ore for enhanced lithium-ion battery performance* » **Mohamed Kerroumi**, Mehdi Karbak, Hamza Afryate, Ayyoub EL-Bchiri, Mohamed Aqil, Bouchaib Manoun, Youssef Tamraoui, Hubert Girault, Fouad Ghamouss.
- (ID48):** « *Advances in Chemical Admixtures for Sustainable 3D Concrete Printing Applications* » **Mouad El Mesoudy**, Rida Foulki, Mouhssine Chahbouni, Khalid Cherkaoui, Driss Amegouz.
- (ID100):** « *Oil shale upcycling to battery-grade graphitic carbon with CO<sub>2</sub>-free H<sub>2</sub> co-production* » **Ayyoub El-Bchiri**, Sara Nour Eddine, Hamza Afaryate, Mohammed Kerroumi, Abderrahman Mellalou, Wanderson O. Silva, Mathieu Soutrenon, Hubert H. Girault, Youssef Tamraoui, Hassan Hannache, Fouad Ghamouss.
- (ID101):** « *Intelligent Digital Platform for Real-Time Monitoring and Supervision of the P4 Photovoltaic Solar Cooker* » **Mohammed Hmich**, B. Zoukarh, S. Chadli, R. Malek, O. Deblecker, K. Kassmi, N. Bachiri.
- (ID60):** « *Sustainable biosourced anion exchange membranes derived from date palm biomass for alkaline water electrolysis* » **Ilham Admiri**, Mustapha Matrouf, Fouad Ghamouss, Fatima Zahra SEMLALI.
- (ID155):** « *Alkaline water electrolysis: 2D CFD simulations and statistical modelling of operating conditions.* » **Abir Brahimi**, Khaoula Ajlane, Otmane kharboicha, Moussa Ouakki, Abdelghani Hsini, Souad El hassouni, Hafida Atti, Youness Chhiti.

**SESSION #4** ADVANCED MATERIALS FROM ORGANIC AND INORGANIC DEVICES  
**Chairs: Prof. Youichi Tsuchiya, Prof. Said Taboukhat, Prof. Mohamed Abou-Salama & Prof. Geoffrey Promis**

- (ID4):** « *Synthesis and Characterization of Eco-Efficient Belite Calcium Sulfoaluminate Cement from Local Raw Materials* » **Ikram Oumrim**, Laila Boumahdi, Said Mansouri, Youssef Tamraoui, Jones Alami.
- (ID23):** « *Correlation Between M<sub>23</sub>C<sub>6</sub> Carbide Evolution and Nanomechanical Behaviour in Thermally Aged Fe-18Cr-8Ni Austenitic Steel* » **Ben Lenda Omar**, H. El Ganich, A. Tara, E. Saad.
- (ID31):** « *Phosphorylated Starch as a Sustainable Flame-Retardant Material for Textile Coatings* » **Allam Ilham**, Essaket Ilham, Cherkaoui Omar, Tahiri Mohamed.
- (ID70):** « *Advances in Biodegradable Active and Intelligent Packaging: From Biopolymers to Sustainable Functional Materials* » **Houda Elboukhari**, Anouar El Magri, Barka Nouredine.
- (ID111):** « *One-Step Heat-Induced Surface Hydrophobization of Cellulosic Membrane by APTES for Oil–Water Emulsion Separation* » **Naji Majoudi**, Brahim Mazian, Yuri Ferreira da Silva, Mounir El Achaby, Patrick Perre, El-Houssaine Ablouh.
- (ID143):** « *Numerical Investigation of Layer Engineering in InGaN p–i–n Single Homojunction Solar Cells.* » **Abboudi Hassan**, Hassan Abboudi, Ilyass Ez-Zejjari, Haddou El Ghazi, Redouane EN-Nadir, Redouane Sersar, Walid Belaid, Ahmed Sali.
- (ID232):** « *Cytotoxic and Apoptosis-Inducing Effects of Lonchocarpus Sericeus Root Extracts: Toward Sustainable Therapeutics for Triple-Negative Breast Cancer in Africa* » **Bilkisu Adedoyin**, Onuche S. Ugbedeajo, Omenka U. Peter, Ahmed Umar.
- (ID288):** « *From Hyphal Network to Hygrothermal Properties: Study of Mycelium-Based Composites for Insulation* » **Meriem Dehbi**, Sina Motamedi, Daniel R. Rousse, Omar Douzane, Geoffrey Promis.
- (ID289):** « *Determination of the acidity constants of allantoin and its complexation with the Cu<sup>2+</sup> ion* » **Zakaria Zaki**, Bendaha Hasnae, Ibtissam Ameziane, Barboucha Yassine, Elmessaoudi Mourad, El Faydy Mohamed, Mimouni Mostafa.

11:30– 13:00  
**ROOM 4**

13:00 – 15:00	Lunch	
15:00 – 15:25	<p><b><u>PLENARY CONFERENCE #5</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Youichi Tsuchiya</b> - Kyushu University (<b>Japan</b>)  “Advanced photophysical analysis for elucidating excited-state energy configurations in TADF Materials”</p> <p>Chairs: Prof. Bouchta Sahraoui &amp; Prof. Naïma El Assaoui</p>	
15:30 – 15:55	<p><b><u>PLENARY CONFERENCE #6</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Clément Camp</b> - University Claude Bernard (<b>France</b>)  “Engineering advanced heterobimetallic catalytic materials for selective H/D exchange”</p> <p>Chairs: Prof. Imane Aarab &amp; Prof. Abdelouahad Aouinti</p>	
16:00 – 16:25	<p><b><u>PLENARY CONFERENCE #7</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Zakaria Halime</b> - Paris-Saclay University (<b>France</b>)  “Bio-inspired Catalysis for CO2 Reduction”</p> <p>Chairs: Prof. Omar Ben Lenda &amp; Prof. Ahmed Chetouani</p>	
16:30 – 16:55	<p><b><u>PLENARY CONFERENCE #8</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Jacques Huot</b> - University of Québec (<b>Canada</b>)  “Crystal structure of the of <math>Ti_{20-x}Zr_xV_{35}Cr_{15}Ni_{10}Mn_{20}</math> (<math>x = 0, 4, 8, 12, 16</math> and <math>20</math>) high-entropy alloys”</p> <p>Chairs: Prof. Jamal Bouchnaif &amp; Prof. Aouane El Mahjoub</p>	
17:00 – 17:25	<p><b><u>PLENARY CONFERENCE #9</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Mohamed Mellah</b> - Université Paris-Saclay (<b>France</b>)  “Use of electrochemistry to create efficient SmI<sub>2</sub>-mediated catalytic systems, the famous "Kagan reagent" ”</p> <p>Chairs: Prof. Elmostafa Ziani &amp; Prof. Imane Aarab</p>	
17:30 - 18:00	<b>Poster Session / Stands</b>	
18:00 – 20:00 <b>ROOM 1</b>	<p><b>SESSION #5</b> WATER, SOIL, AIR, AGRICULTURE AND ENVIRONMENTAL ISSUES  Chairs: Prof. Abdellah Ibrahim, Prof. Imane Merimi &amp; Prof. Zakaria Halime</p>	
	<p><b>(ID53):</b> « Exploiting native impurities as functional dopants: Synthesis of advanced calcium-based photocatalysts from phosphogypsum via solid-state route » <b>Rida Ahfad</b>, Jamal Ait Brahim, Redouane Beniazza.</p> <p><b>(ID58):</b> « Design of Green Organosulfur Ligands for the Selective and Sustainable Purification of Metal-Contaminated Phosphoric Acid » <b>Adnane Ikram</b>, Bousfiha Asmae, Beniazza Redouane.</p> <p><b>(ID66):</b> « AI-Driven Quantification of Reservoir Sedimentation: A Case Study from Moulay Youssef Dam Morocco » <b>Imane Bouchtaoui</b>, Naïma El Assaoui, Abdelaziz Sadok, Ismail Jemmi.</p> <p><b>(ID71):</b> « Activation of phosphate by-products in geopolymer systems » <b>Salma En-Naji</b>, Samira Moukannaa, Rachid Hakkou, Inés Garcia Lodeiro.</p> <p><b>(ID74):</b> « Integrating GRACE Data and Land Use Dynamics for Groundwater Storage Assessment in the BERRECHID-Aquifer, Morocco » <b>Oumaima Ouahine</b>, Naïma El Assaoui, Youssef Laalaoui.</p>	

	<p><b>(ID75):</b> « <i>An exploratory assessment of flood-induced changes in water quality and seasonal influences in the Sebou Estuary, Morocco</i> » <b>Mariam Aznag</b>, Ilyass Lazaar, Nora Ait Said, Dounia Bassir, Manal Maaroufi, Mohamed Ettaki, Hamid Slimane, Soufiane Saber, Sanae Youssir, Driss Belghyti.</p> <p><b>(ID78):</b> « <i>Assessment and Management Perspectives of Dam Siltation in Morocco: Integrating Technological Advances and National Strategies</i> » <b>Naïma El Assaoui</b>, Ismaïl Jemmi, Imane Bouchtaoui, Omar Chafki, Abdelaziz Sadok.</p> <p><b>(ID92):</b> « <i>Electrodialysis-Based Defluoridation of Groundwater: Membrane Choice and Competitive Ion Transport</i> » <b>Mustapha Tahaikt</b>, Jamal Tourir, Iderisse Mohamed, Mohamed Taky.</p> <p><b>(ID93):</b> « <i>Coriander-Mediated Synthesis of Fe Nanoparticles for Eco-Friendly Dye Removal</i> » <b>Amine Ezzahi</b>, Atif Bendehhou, Soufiane Ouaaouch, Mariam Benhaimer, Ikram Bourazki, Mama el Rhazi.</p> <p><b>(ID108):</b> « <i>Electrochemical sensing of Levofloxacin in Pharmaceutical and Water Systems using a Clay-CeO<sub>2</sub> nanocomposite modified carbon past electrode</i> » <b>Bourazki Ikram</b>, Imad Elazhary, Abdellah Aadane, Mama El Rhazi, Amine Ezzahi.</p> <p><b>(ID110):</b> « <i>Treatment performance, operational resilience, and operating constraints of activated sludge wastewater treatment plants in Morocco: Diagnosis, determining factors, and recommendations.</i> » <b>Said Bouk</b>, Khalid Achoubir.</p> <p><b>(ID196):</b> « <i>Integrated Water Quality Assessment of Oued Sidi Rachid (Morocco) under Climate and Anthropogenic Pressures</i> » <b>HACHI Touria</b>, Bouassria Hicham, Hachi Maryama, Abba El Hassan.</p> <p><b>(ID265):</b> « <i>Detection of Fusarium Wilt in Banana Crops Using UAV Multispectral Data and Machine Learning Approaches</i> » <b>Asmae Ahanssis</b>, Siham Refki, Naima EL Menani, Zouheir Sekkat.</p> <p><b>(ID267):</b> « <i>Fish waste valorization through composting formulation, analysis and testing</i> » <b>Abba El Hassan</b>, Hamza Essabiri, Hachi Maryama, Damrani Roumaissa, Boumalkha Oumaima.</p>
<p><b>18:00 – 20:00</b> <b>ROOM 2</b></p>	<p><b>SESSION #6</b> GREEN ENERGY, RENEWABLE, STORAGE AND SUSTAINABLE DEVELOPMENT <b>Chairs: Prof. Peng Cheng, Prof. Driss Amegouz, Prof. Mohammed Benhaddou &amp; Prof. Abderrahim Bouaid</b></p> <p><b>(ID107):</b> « <i>Rational Construction of TiO<sub>2</sub>/BiVO<sub>4</sub> photocatalysts for High-Performance Solar-Driven Water Treatment and Hydrogen Generation</i> » <b>Ahmed El Hattab</b>, Amir Mirzaei, Amr A Nada, Zahra Shayegan, Stéphanie Roualdes, Mohamed Chaker.</p> <p><b>(ID102):</b> « <i>Flexible and Reliable Energy and Storage Management for Photovoltaic Solar Cookers Using a Multiport DC/DC Converter</i> » <b>Bilal Zoukarh</b>, Mohammed Hmich, Sara Chadli, Rachid Malek, Olivier Deblecker, Khalil Kassmi, Najib Bachiri.</p> <p><b>(ID116):</b> « <i>Nickel-Modified Fly Ash as a Low-Cost Electrocatalyst for the Hydrogen Evolution Reaction in Alkaline Media.</i> » <b>Ben Haimer Mariam</b>, Soufiane Skakri, Ikram Bourazki, Mama El Rhazi, Amine Ezzahi.</p> <p><b>(ID124):</b> « <i>Manganese Spinel Oxides as Advanced Cathode Materials for Safe and Sustainable Zinc-Ion Batteries</i> » <b>Firdaous Boualam</b>, Ayyoub El-Bchiri, Fatima El Bachraoui, Fouad Ghamouss, Bouchaib Manoun.</p> <p><b>(ID126):</b> « <i>Sustainable DES Modification of Cellulose Fibers for Anion-Exchange Membranes in Alkaline Water Electrolysis</i> » <b>Ahsaini Loubna</b>, Mustapha Matrouf, Oumaima Bendalahcen, Mina Jellab, Fatima-Zahra Semlali, Fouad Ghamouss.</p> <p><b>(ID129):</b> « <i>Physics-informed Bayesian optimization of defect-tolerant lead-free FASnI<sub>3</sub> tin-perovskite solar cells</i> » <b>Mohammed Benaichi</b>, Soukaina Bouhmaidi, Oualid Betari, Chaieb El Bekkaye, Hanan Harcha.</p> <p><b>(ID137):</b> « <i>Simulation of the Operation of a Hybrid Multi-Stage Solar Desalination System with Battery Storage for Continuous Freshwater Production</i> » <b>Abderrafie EL Amrani</b>, R. Malek, K. Schwarzer, H. Chayeb, K. Kassmi, Najib Bachiri.</p>

	<p><b>(ID132):</b> « <i>Biocompatible BCZT Core@CuFe2O4 Shell Structure Embedded in PVDF Matrix: A Sustainable Approach for High-Efficiency Magnetolectric Energy Harvesting</i> » <b>Chaymae Bahloul</b>, Sarah Baayyad, Adil Eddiai, Rocio Moriche Tirado, Francisco Javier Romero, Fatima-Zahra Semlali, Mounir El Achaby.</p> <p><b>(ID140):</b> « <i>Magnetic Modulation of Co(OH)<sub>2</sub> Nucleation and Growth for High-Performance OER Electrocatalysis</i> » <b>Ikram Cheras</b>, Ayoub Taktour, Mustapha Matrouf, Jamal Bencaid, Abdelhadi El Jaouhari, Abelkader Outzhourit, Fouad Ghamouss.</p> <p><b>(ID141):</b> « <i>DEVELOPMENT OF LOW-COST Ni–Mo ELECTROCATALYSTS ON MODIFIED STAINLESS STEEL FOR ALKALINE WATER ELECTROLYSIS</i> » <b>Imane Ennarhmouchy</b>, Ikram Cheras, Mustapha Matrouf, Oussama Fareh, Bilal Brioual, FatimaZahra Semlali, Abdelhadi El Jaouhari, Fouad Ghamouss.</p> <p><b>(ID86):</b> « <i>Defect Engineering and Halide Composition Tuning in MAPb(I<sub>1-x</sub>)Cl<sub>x</sub>)<sub>3</sub> Perovskites for High-Efficiency Solar Cells: Insights from SCAPS-1D Simulations</i> » <b>Samira Saadaoui</b>, Rim Sayed, Amal Bouich, Khawla Fradi, Nadia Drireche.</p> <p><b>(ID165):</b> « <i>Phase–Interface Coupling in MoS<sub>2</sub>/Co-MOF/NF Hybrid Systems for Electrocatalytic Hydrogen Evolution</i> » <b>Sanaa Essalmi</b>, Veronique Madigou, Amal BaQais, Mohamed Saadi, Madjid Arab, Hassan Ait Ahsaine.</p> <p><b>(ID24):</b> « <i>Enhanced electrocatalytic oxygen evolution reaction through inductive effects of cobalt in nickel orthophosphates</i> » <b>Jamal Bencaid</b>, Abdelhadi El Jaouhari, Anouar Belhboub, Mustapha Matrouf, Ikram Cheras, Maimoune Adnane, Abdelghani Ghanam, Bouchaib Manoun, Fouad Ghamouss.</p> <p><b>(ID268):</b> « <i>Nickel-Modified Natural Clay for Hydrogen Storage: Effect of NiO and Metallic Ni Phases on Hydrogen Sorption Performance</i> » <b>Aya Aiadi</b>, Jean Louis Bobet, Khalid Draoui.</p>
<p><b>18:00 – 20:00</b> <b>ROOM 3</b></p>	<p><b>SESSION #7</b> ADVANCED MATERIALS FROM ORGANIC AND INORGANIC DEVICES <b>Chairs: Prof. Yann Garcia, Prof. Charafeddine Jama &amp; Prof. Ossama El Abouti</b></p> <p><b>(ID172):</b> « <i>Pyrrhotite Ash-Filled Plastics for Improved Electromagnetic Interference Shielding and Flame Retardancy</i> » <b>Youssef Eshouba</b>, Tarik Mahfoud, Mahdi Bodaghi, Youness Zaarour, Mariem Aznabet, El kebir Hlil, Hassan El Moussaoui, Mounir El Achaby.</p> <p><b>(ID237):</b> « <i>Fabrication and Analysis of Chitosan-based Nanocomposites Reinforced with H-CNC and AgNPs</i> » <b>Ahmed Ramdani</b>, Tarik Harit, Abdeslam Asehrou, Fouad Malek, Mounir EL Achaby.</p> <p><b>(ID240):</b> « <i>Theoretical Insight into the Photophysical and Electronic Properties of D–p–A Organic Dyes for Dye-Sensitized Solar</i> » <b>Brahim Azzimani</b>, Yasser Karzazi.</p> <p><b>(ID249):</b> « <i>Design of a new low carbon LC3 cement based on phosphate industry by-products</i> » <b>Chifaa Touil</b>, Hicham Majdoubi, Hassan Hannache.</p> <p><b>(ID280):</b> « <i>Fatigue Behavior of Knee Prostheses: A Review of Materials, Mechanisms, and Analysis Approaches</i> » <b>Amina Ramdane</b>, M. Abbadi, Abdeljaouad Najib.</p> <p><b>(ID87):</b> « <i>Unveiling Celecoxib from Discovery to Clinical Applications: An In Silico ADMET and Toxicity Study</i> » <b>Zakariae Abbaoui</b>, Zakariae Abbaoui, Safae Foufa, Maissae Snoussi, Elhoucine Sebbar, Adil Maleb, Wilson Agerico Diño, and Rachid Touzani.</p> <p><b>(ID189):</b> « <i>Synthesis, solid-state characterization of ethyl 5-methyl-1H-pyrazole-3-carboxylate and its Zn(II) complex: Catalysis, corrosion and DFT studies</i> » <b>Ziloukha Ridal</b>, Hicham Elmsellem, Rachid Touzani, Abdelouahed Aouniti, Yann Garcia, Guillaume Maurin.</p> <p><b>(ID206):</b> « <i>Encapsulation of 3,5-dimethyl-1H-pyrazol in Dicalcium Phosphate-Based Materials: Synthesis, Characterization and Applications</i> » <b>Dakhli Yosra</b>, Berrabah Mohammed, Rachid Touzani, Jerdioui Souhail.</p> <p><b>(ID213):</b> « <i>Integrating Physicochemical Characterization and Artificial Intelligence Approaches for the Development of Clay-Based Adsorbent Materials for Heavy Metal Removal</i> » <b>Rajaa Mariouch</b>, Mohamed Salahdine Elyoubi, Chakir El Mahjoub.</p>

	<p><b>(ID262):</b> « <i>First-Principles Investigation of the Physical Properties of Novel Lead-Free Lithium-Based Inorganic Anti-Perovskites Li<sub>3</sub>SX (X = Cl, Br and I) for Optoelectronic and Thermoelectric Applications</i> » <b>Soukaina Bouhmaid</b>, Larbi Setti.</p> <p><b>(ID37):</b> « <i>Engineering Ultra-microporous fcu Metal-Organic Frameworks for Selective Olefin/Paraffin Separation</i> » <b>Fatima-Zahrae Ainouche</b>, Ayalew H. Assen, Youssf Belmabkhout.</p> <p><b>(ID236):</b> « <i>Influence of Na<sup>+</sup>/Li<sup>+</sup> Co-Doping on the Structure, Thermal Behavior, and Ionic Conductivity of Fluorapatite-Based Materials</i> » <b>Yousra Kachbou</b>, Khalil Azzaoui, Leila Ouachouo, Lahcen Bih, Belkheir Hammouti.</p>
<p><b>18:00 – 20:00</b> <b>ROOM 4</b></p>	<p><b>SESSION #8</b> NATURAL PRODUCTS AND THEIR BIOTECHNOLOGICAL APPLICATIONS <b>Chairs: Prof. Clément Camp, Prof. Hamid Erramli &amp; Prof. Rachid Benkaddour</b></p>
	<p><b>(ID30):</b> « <i>Alleviation of soil water repellency using a microbial-derived biosurfactant: Effect on spreading and infiltration</i> » <b>Kadiri Fatima Zahra</b>, Hasna Barza, Mustapha Barakate , Noamane Taarji.</p> <p><b>(ID54):</b> « <i>The wetting behavior of hydrophobic olive leaf surfaces using a microbial-derived biosurfactan</i> » <b>Hasna Barza</b>, Fatima Zahra Kadiri, Mustapha Barakate, Noamane Taarji.</p> <p><b>(ID85):</b> « <i>Optimization of pectin extraction yield from Citrus clementin sorting rejects: A Design of Experiments (DoE) study.</i> » <b>Kannouch Ibtissam</b>, H.Azzouzi, O.Chetto, H.Benyahya, M.Mounir, K .Elfazazi.</p> <p><b>(ID96):</b> « <i>Dual qualitative–quantitative screening of Piper nigrum phenolics: antioxidant and antityrosinase activities</i> » <b>Amrani Nouhaila</b>, Thanh-Nhat Pham, Maher Abla, Boussetta Oumayma, Mohammed Ramdani.</p> <p><b>(ID160):</b> « <i>Equilibrium, kinetics and mechanism of violet crystal removal from aqueous solution by adsorption on Natural efficient biosorbent</i> » <b>Zairat Omar</b>, El Amri Abdelhay, Jebli Assia, Mortadi Khadija, Zarrik Basma, Dkhireche Nadia.</p> <p><b>(ID164):</b> « <i>Extraction, Characterization and Evaluation of Vanilla planifolia Ethanolic Extract as a Green Corrosion Inhibitor for E24 Steel in 1 M HCl</i> » <b>Saidi Farid</b>, Malak Rehioui, Said Omar Said Hassan, Kawtar Oumalk, Ahmed Dermaj, Hamid Erramli.</p> <p><b>(ID28):</b> « <i>Sustainable Edible Coating Enriched with Natural Antioxidants to Enhance Postharvest Quality and Extend the Shelf-Life of Pomegranate during Cold Storage</i> » <b>Chaimae El-Rhouttais</b>, Salah Laaraj, Zahra El Kettabi, Mustapha Madani, Guirrou Ibtissame, Souad Salmaoui, Kaoutar Elfazazi.</p>
<p><b>18:00 – 20:00</b> <b>ROOM 5</b></p>	<p><b>SESSION #9</b> ADVANCED MATERIALS FOR OPTOELECTRONICS AND PHOTONICS APPLICATIONS <b>Chairs: Prof. Jian-Gong Ma, Prof. Bouchta Sahraoui &amp; Prof. Mohamed Ouchrif</b></p>
	<p><b>(ID25):</b> « <i>Organophosphorus materials for Sustainable OLED Technologies</i> » <b>Meriem Lougdali</b> , Afaf El Azzaoui, Mohamed Ilsouk.</p> <p><b>(ID27):</b> « <i>Aryl-Substituent Effects on Spin Crossover in [Fe(H<sub>2</sub>Bpz<sub>2</sub>)<sub>2</sub>(bipy-R)] Complexes: Structure - Magnetism Correlations</i> » <b>Mengmeng Wang</b>, Koen Robeyns, Aurelian Rotaru, Tim Hochdörffer, Dominik Maskowicz, Mariusz Wolff, Juliusz Wolny, Mirosław Sawczak, Rafał Jendrzewski, Volker Schuenemann, Yann Garcia.</p> <p><b>(ID40):</b> « <i>A Physics-Informed Multimodal Characterization Framework for Corrosion Degradation in Automotive Metallic Materials.</i> » <b>Hamza Zarhyoun</b>, Faouaz Jeffali, Jamal Bouchnaif, Abdellah El Barkany.</p> <p><b>(ID77):</b> « <i>Investigation of Microstructural and Optical Properties of Sol–Gel Halide-Substituted Rb<sub>2</sub>SnCl<sub>6</sub> Double Perovskite</i> » <b>Kawtar Oukacha</b>, Larbi Laânab, Mohammed Aymane Bossi, Souad EL Hajjaji, Boujemaâ Jaber.</p> <p><b>(ID81):</b> « <i>Tuning optoelectronic properties of RbSnCl<sub>3-x</sub>X<sub>x</sub> (X = Br, I) Halide Perovskites via Halide Substitution: A DFT Study</i> » <b>Imane Laazizi</b>, Imane Laazizi, Boujemaâ Jaber, Nejma Fazouan, Larbi Laanab.</p>

	<p><b>(ID122):</b> « <i>A Comprehensive Review of Physical, Mechanical, Optical, and Radiation Shielding Properties of Doped Glasses: From Experimental Characterization to Machine Learning Predictions</i> » <b>Soumaia El Khamsi Chahd</b>, Oudie Kabach, Lalla ibtissam Drissi.</p> <p><b>(ID169):</b> « <i>Nonlinear behavior of beams in the large deformation regime: From theoretical formulation to experimental validation</i> » <b>Nadia Qerdachi</b>, Mohammed Ahssayen , Mohammed Abbadi.</p> <p><b>(ID176):</b> « <i>Study of the influence of fiber orientation on the four-point bending behavior of a T700/M21 composite using the cohesive zone method</i> » <b>Hamdaoui Alghalia</b>, Kaoutar Bouakka, Ahmed Abbadi, Mohammed Abbadi.</p> <p><b>(ID177):</b> « <i>Numerical Study of Delamination in T800/M21 Laminated Composites under Four-Point Bending Using XFEM</i> » <b>Aya Chteb</b>, Alghalia Hamdaoui, Ahmed Abbadi.</p> <p><b>(ID274):</b> « <i>Central Atom Effects in ZnPc-Based HTMs: A DFT/TD-DFT Study for Solar Cell Applications</i> » <b>Mustapha Ammari</b>, Mohamed Jabha, Nazih Asoufar, Mohamed Yaakoubi, Abdellah Elalaoui, EL Houssine Mabrouk.</p> <p><b>(ID275):</b> « <i>Composition-controlled engineering of acoustical and optical dispersion in BaTiO<sub>3</sub>-PMMA-SiO<sub>2</sub> tri-layer superlattice</i> » <b>Imane Maajem</b>, EL Abouti Ossama, El Boudouti El Houssaine.</p> <p><b>(ID35):</b> « <i>Analytical and Numerical Study of Bound States in the Continuum and Fano Resonances in a Coupled Double-Loop System with a Shared Arm</i> » <b>Fatima Zohra Harroui</b>, Tarik Mrabti, Khalid Lamayny, Soukaina Sabsi, Ossama El Abouti, Madiha Amrani, Soufyane Khattou, El Houssaine El Boudouti.</p> <p><b>(ID36):</b> « <i>Kronig–Penney Analogy in One-Dimensional Superconductor–Dielectric Photonic Crystals</i> » <b>Fatima Zohra Harroui</b>, Soukaina Sabsi, Khalid Lamayny, Tarik Mrabti, Ossama El Abouti, El Houssaine El Boudouti.</p> <p><b>(ID39):</b> « <i>Tuning Photophysical Properties of Luminescent Cu(I)-Bisphosphine Complexes through Phenanthroline Functionalization</i> » <b>Afaf El Azzaoui</b>, O. Essahili, A. Almaggoussi, M. C. Faleiros, P. Yuan, M. Alotaibi, Naveen M. Halappa, J.Moussa, M. Ilsouk .</p> <p><b>(ID276):</b> « <i>Design and Optimization of a Tunable One-Dimensional Photonic Crystal with Two Defect Layers for Enhanced Sensing Performance</i> » <b>Soukaina Sabsi</b>, Fatima Zohra Harroui, Ossama El Abouti, Tarik Mrabti, El Houssaine El Boudouti.</p> <p><b>(ID264):</b> « <i>Enhanced Sensitivity in SPR-Based Plasmonic Sensors Using Optimized Multilayer Structures for Sensing Applications</i> » <b>Siham Refki</b>, Amina Badir, Nouredine Ben Afkir, Imane Hamideddine, Asmae Ahanssis, Zouheir Sekkat.</p>
20:00 – 22:00	<b>Dinner</b> 

### Day 3 Saturday, June 13, 2026

09:00 – 09:25	<p><b><u>PLENARY CONFERENCE #10</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Nicolas Illy</b> - University of Sorbonne (<b>France</b>)  “Thiolactone chemistry as a platform for functional polymer synthesis”</p> <p><b>Chairs: Dr. Boutaina Rezki &amp; Prof. Amine Ezzahi</b></p>
09:30 – 09:55	<p><b><u>PLENARY CONFERENCE #11</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Peng Cheng</b> - Nankai University (<b>China</b>)  “Magnetolectric Functional Properties of Lanthanide Molecular Magnetic Materials”</p> <p><b>Chairs: Prof. Zineb Kassab &amp; Prof. Youssef Aboussaleh</b></p>

10:00 – 10:25	<p><b><u>PLENARY CONFERENCE #12</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Bouchta Sahraoui</b> - University of Angers (<b>France</b>)  <b>“ Engineering Advanced Functional Materials for Nonlinear Optical Applications”</b></p> <p><b>Chairs: Prof. Hamid Erramli &amp; Prof. Jamal Moussa</b></p>
10:30 – 10:55	<p><b><u>PLENARY CONFERENCE #13</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Mohamed Ouchrif</b> - Mohammed First University (<b>Morocco</b>)  <b>“ Probing particle physics from colliders to cosmic rays by very large experiments”</b></p> <p><b>Chairs: Prof. Abdelkarim Jabri &amp; Prof. Rachid Touzani</b></p>
11:00 – 11:25	<p><b><u>PLENARY CONFERENCE #14</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Yann Garcia</b> - Catholic University of Louvain (<b>Belgium</b>)  <b>“ Spin state photo-switching of Fe(II) Complexes”</b></p> <p><b>Chairs: Prof. Abdelkrim El-Ghayoury &amp; Prof. El Mahdi Hbaiz</b></p>
11:30 – 11:40	<b>BREAK</b>
<b>11:40– 13:10</b> <b>ROOM 1</b>	<p><b>SESSION #10</b> NATURAL PRODUCTS AND THEIR BIOTECHNOLOGICAL APPLICATIONS  <b>Chairs: Prof. Adyl Oussaid, Prof. José L. Guil-Guerrero &amp; Prof. Youssef Aboussaleh</b></p>
	<p><b>(ID215): « Zingiber officinale: In Vitro Evaluation of the Phytochemical Content, Antioxidant, Antibacterial, and Immunomodulatory Effects of Aqueous Infusion and Maceration Extracts on Human Polymorphonuclear Neutrophils »</b> <b>TIJINI Maria</b>, Ouadghiri Zaynab, Aziz Majdouline, El Faqer Othman, Rais Samira , Mtairag El Mostafa.</p>
	<p><b>(ID219): « Anti-inflammatory and Protective Effects of Marrubium vulgare and Its Promising Thrombolytic Activity »</b> <b>Zaynab Ouadghiri</b>, Othman El Faqer, Hicham Wahnou, Majdouline Aziz, Maria Tijini, Najma Lefjel, Samira Rais, El Mostafa Mtairag.</p>
	<p><b>(ID222): « Network Pharmacology Analysis of Artemisia arborescens L. Essential Oil Reveals Multi-Target Mechanisms Relevant to Inflammatory Bowel Disease »</b> <b>Majdouline Aziz</b>, Zaynab Ouadghiri, Maria Tijini, Najma Lefjel, Othman El Faqer, Samira Rais, El Mostafa Mtairag.</p>
	<p><b>(ID243): « Development of surfactant-free nanodispersions of tocopherols by solvent displacement method »</b> <b>Btissam Benbakrim</b>, Abdellatif Hafidi, Noamane Taarji.</p>
	<p><b>(ID258): « Quality Assessment and Compositional Variability of Non-Industrial hemp (Cannabis sativa L.) Seed Oils from Al Hoceima, Northern Morocco »</b> <b>Meriem El Hallabi</b>, Hicham Zaroual , Mohammed Hassani Zerrouk, Yassine Ez zoubi.</p>
<p><b>(ID273): « From Limonene to Dual-Target Innovation: Antibacterial, Antibiofilm, and Anticancer Potency of an R -Limonene-Derived Ruthenium (II) Complex and its Microencapsulation »</b> <b>M. El Hllafi</b>, Y. Benabdelouahab, Y. El Fannassi, S. Khelissa, N. E. CHIHIB, C. Jama, <b>M. A. El Amrani</b>.</p>	
<b>11:40– 13:10</b> <b>ROOM 2</b>	<p><b>SESSION #11</b> WATER, SOIL, AIR, AGRICULTURE AND ENVIRONMENTAL ISSUES  <b>Chairs: Prof. Mama El Rhazi, Prof. El Hassan Abba &amp; Prof. Ahmed Chetouani</b></p>
	<p><b>(ID119): « Integrating Artificial Intelligence and AHP in Google Earth Engine for High-Resolution Groundwater Potential Mapping in Semi-Arid Aquifers »</b> <b>Nitiema Sylvius Rodrigue</b>, Naima El Assaoui, Assia El Kabous.</p>

**(ID127):** « *Status and Distribution of Seagrass Meadows in Morocco: A Review of biodiversity, decline, and conservation Needs* » **René Sagno**, Otmani Anas, Najoua Labjar, Souad El Hajjaji, Lachhab Abdeslam.

**(ID133):** « *Comprehensive Physicochemical, Bacteriological, and Heavy Metal Characterization of Khenifra Landfill Leachate.* » **Oumayma Boumalkha**, El Hassan Abba, Hadeel Hosney, Salahdine Skounti.

**(ID134):** « *Design and optimization of polymer/salt composite sorbent materials for sustainable atmospheric water harvesting.* » **Mounia Guetbach**, El Houssaine Ablouh.

**(ID142):** « *Integrated Aeromagnetic Processing for Basement Structural Mapping and Its Implications for Groundwater Flow in the Alnif Area, Eastern Anti-Atlas (Morocco)* » **Assia El Kabous**, Naïma El Assaoui, El houssaine El Kabous, Ahmed Manar, Sylvius Rodrigue Nitiema.

**(ID163):** « *Integral valorization of date pits powder for the development of functional biomaterials* » **Rachida Zahti**, Latifa ElFarissi, Souad EL-Hajjaji.

**(ID167):** « *Activated carbons prepared through H<sub>3</sub>PO<sub>4</sub>- assisted hydrothermal carbonization from argan wastes: From surface characterization to wastewater treatment* » **Addaniaoui Kaoutar**, Amal Tlili, Salima Atlas, Julien Vieillard, Mohammed Ouzzine.

**(ID171):** « *Valorization of purified mining phosphate sludge as a functional filler in ethylene-vinyl acetate-coated cellulose-based packaging papers* » **Oumaima Bendalahcen**, Siham Ez-Zahraoui, Rachid Bouhfid, Jones Alami, Mounir El Achaby, Fatima-Zahra Semlali.

**(ID187):** « *New sustainable biopolymeric material derived from carrot by-products for food packaging.* » **Asmae Smaili**, Lina Goudali, Latifa El Farissi, Omar Tanane, Souad El Hajjaji.

**(ID191):** « *Integration assessment and prediction of groundwater quality in the Loukous aquifers under flood scenarios using WPI, PCA, Piper Diagram, Random Forest, and RSM* » **Zineb Elharmazi**, F. Z. Addar, El Mustapha Azzirgue, Rachida Ghailane, Fouad Dimane, Mohamed Salahdine El Youbi, Mustapha Belfaquir.

**(ID199):** « *OrganoMineral Fertilizers from Wheat Straw-Grass CoCompost and Triple Superphosphate: Formulation and Evaluation for Improved Phosphorus Use Efficiency and Cereal Productivity* » **Coulibaly Madoussou**, Younes Essamlali, Mohamed Zahouily.

**(ID285):** « *Sustainable Agriculture as a Strategic Pathway for Soil Carbon Sequestration and Climate Mitigation: a review* » **Juline Diken Malounghou Bounangnan**, Asbai Zakaria, Mohammed Bennani, Hilma Bessi, Rolf Gael Mabicka Obame, Maurice Ognalaga, Nadia Boutaleb.

**SESSION #12** GREEN ENERGY, RENEWABLE, STORAGE AND SUSTAINABLE DEVELOPMENT  
**Chairs: Prof. Elmostafa Ziani, Prof. Jamal Bouchnaif & Prof. Hassan Ait Ahsaine**

**(ID174):** « *Improving the electrical performances of photovoltaic cookers* » **Sara Sabri**, Rachid Cheikh, Rachid Malek, Olivier Deblecker, Khalil Kassmi.

**(ID147):** « *From Waste to Energy: Efficient Vanadium Spent Catalyst Recycling towards high power NVPF@C cathode material for SIBs applications* » **Hiba NAHI**, Elhoucine ELmaataouy, Oumaima Moustakim, Abdelwahed Chari, Mohamed Aqil, Catalin Negrila, Jones Alami, Mouad Dahbi.

**(ID170):** « *hierarchical Hybrid MOF Composites based on UiO-66 for High-Pressure CO<sub>2</sub> Adsorption: Structural Synergy and Thermodynamic Insight* » **Zineb Ouzrou**, Akaya Hicham, Lamnini Soukaina, Katalin Balázszi, Zsolt Czigány, Tausif Altamash, Jacquemin Johan.

**(ID179):** « *Sustainable Manganese-Iron NASICON Phosphates: Structural and Conductive Properties for Sodium-Ion Storage* » **Loubna Chayal**, Sirine El Arni, Mohamed Saadi, Abderrazzak Assani, Lahcen Bih, Jiwei Ma, Mohammed Hadouchi.

**(ID182):** « *Modeling and Optimization of an Electromagnetic Energy-Harvesting Speed Bump Coupled with a Mass-Spring Amplification Mechanism* » **Zoubida Bououchma**, Mehdi El Amine.

11:40– 13:10  
ROOM 3

**(ID188):** « *One-Step Thermochemical Activation of Alfa Fiber-Derived Porous Carbon for Enhanced CO<sub>2</sub> Adsorption: Structure-Performance Relationship* » **Akaya Hicham**, Zineb Ouzrour, Badr El Aalami, Alexandre Babin, Hosni Idrissi, Xiaotao Bi, Tausif Altamash, Johan Jacquemin.

**(ID217):** « *Effect of silver (Ag) and magnesium (Mg) doping on the performance of CZTS-based solar cells* » **Safae Torka**, Naoufal Ennouhi, Imane Hamideddine, Zouheir Sekkat.

**(ID282):** « *Comparative Analysis and Framework Development for Green Hydrogen Certification in Morocco* » **Alae Azouzoute**, Samir Amraoui, Mohammed Amine Moussaoui, Ahmed Mezrhab.

**(ID229):** « *Design of Exfoliated and Ultrathin 2D Ni-MOF/F-MWCNT Nanosheets for Advanced LIB Anodes: Combined Experimental and Computational Insights* » **Lahbib Moutanassim**, Majid EL Kassaoui, Yassine Seffar, Mohamed Aqil, Maria Helena Braga, Redouane Haounati, Oumaima Moustakim, Abdelwahed Chari, Ghassane Tiouitchi, Jones Alami, Omar Mounkachi, Samir EL Hankari, Mouad Dahbi.

**(ID231):** « *Oleic Acid Esterification over Sulfated MOF-808: A Chemometric Optimization Strategy* » Reda Errich, **Boutaina Rezki**, Oussama Oulhakem, Samir El Hankari.

**(ID190):** « *Design of Cost-Effective Phosphorylated PVA/PMMA Semi-IPN Membranes with Enhanced Proton Conductivity for Fuel Cell Applications* » **El Moudden Aicha**, Ilham ADMIRI, Loubna AHSAINI, Mustapha MATROUF, FOUAD GHAMOOUSS, Fatima Zahra SEMLALI.

**(ID109):** « *Visibility of African Climate Research: A Multidisciplinary Documentary Analysis of Open Repositories and Linked Data* » **Amina Sabouri**, Hanae lrhou.

**(ID261):** « *Strengthening Research Reproducibility in Materials Science through Institutional Open Science Strategies* » **Nour Adrif**.

**SESSION #13** ARTIFICIAL INTELLIGENCE, ELECTRICAL ENGINEERING AND SIMULATION  
**Chairs:** Prof. Mohammed Jaouad Meziani, Prof. Abdelkrim El-Ghayoury & Prof. Wilson Agerico Diño

**(ID34):** « *Building 4.0 Technologies for Smart and Sustainable Buildings* » **Zahout Ayoub**, Bouchnaif Jamal, Jeffali Faouaz, EL Barkany Abdellah.

**(ID62):** « *Frugal-FedED: A Green Federated Self-Supervised Learning Framework for Privacy-Preserving Student Competency Prediction* » **Khadija Himri**, Celine Joiron, Mohcine Kodad.

**(ID120):** « *De-Risking New Photovoltaic Installations: LSTM-Based Transfer Learning for Data-Scarce Regions* » **Oualid Betari**, M. Benaichi, R. Zarrouk, M. Barboucha, A. Benlghazie.

**(ID148):** « *Design of a Compact High-Gain Wideband Microstrip Patch Antenna Using Rogers RT/Duroid 5880 for 28 GHz 5G mmWave Applications* » **Amal Nejjari**, Anouar ES-SALEH, Sara Said, Ahmed Faize.

**(ID259):** « *From Educational Captions to Microlearning Videos: An LLM-Guided Pipeline for Video Generation* » **Salma Hannouni**, Oumaima Belarache, El Habib Benlahmar, Sanaa El Filali.

**(ID260):** « *Deterministic Performance Evaluation with Constrained Open-Source LLM-Based Feedback Generation* » **Oumaima Belarache**, Fatima Zahra Abbour, Salma Hannouni, Soumaya Ounacer, Mohamed Azzouazi.

**(ID263):** « *Artificial Intelligence for Predictive Behavioral Analytics in Digital Recruitment Systems: A Data-Driven Machine Learning Approach* » **Fatima Zahra Abbour**, Oumaima Belarache, Soufiane Ardchir, Soumaya Ounacer, Mohamed Azzouazi.

**(ID146):** « *Machine Learning-Assisted Improvement of the Sensitivity of an LSPR Biosensor Based on Gold@Silver Core-Shell Nanoparticles for the Detection of Breast Cancer Biomarkers* » **Mohssin Zekriti**.

**(ID220):** « *Sustainable Predictive Maintenance Strategies for Smart Manufacturing Systems* » **Karrach Ghizlane**, Jeffali Faouaz, Bouchnaif Jamal, El Barkany Abdellah.

11:30– 13:00  
ROOM 4

	<p><b>(ID221):</b> « <i>Feature Selection-Based Fault Diagnosis of Rolling Element Bearings Using a Single Machine Learning Classifier.</i> » <b>Farahe Talssi</b>, Faouaz Jeffali, Abdellah El Barkany, Jamal Bouchnaif.</p> <p><b>(ID245):</b> « <i>Sensors for the diagnosis of electrical machines</i> » <b>Mekadmi Sara</b>, Bouchnaif Jamal, Jeffali Faouaz, Abdellah El Barkany.</p> <p><b>(ID246):</b> « <i>Industry 4.0-Enabled Vibration-Based Predictive Maintenance for Fault Detection and Diagnosis of Rotating Machinery</i> » <b>Marhrane Rihab</b>, Jeffali Faouaz, Bouchnaif Jamal, El Barkany Abdellah.</p> <p><b>(ID283):</b> « <i>Thermal Image Processing for Fault Detection in three phases induction motor Motors: A Classical Image Analysis Approach</i> » <b>Benahmed Badr Eddine</b>, Jeffali Faouaz, Bouchnaif Jamal, El Barkany Abdellah.</p>
13:10 – 14:30	<p><b>Lunch</b> </p>
14:30 – 14:55	<p><b><u>PLENARY CONFERENCE #15</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Pascal Marchet</b> - University of Limoges (<b>France</b>)</p> <p>“ <b>Elaboration of BaTiO3 lead-free piezoelectric thick films on thin metallic substrates by Aerosol Deposition method (AD)</b>”</p> <p>Chairs: Prof. Mohamed Abou-Salama &amp; Prof. Mustapha Tahaikt</p>
15:00 – 15:25	<p><b><u>PLENARY CONFERENCE #16</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Mohamed Nawfal Ghazzal</b> - Paris-Saclay University (<b>France</b>)</p> <p>“ <b>Graphdiyne: an emerging 2D material for photo- and electrocatalytic reactions</b>”</p> <p>Chairs: Prof. Abderrahim Bouaid &amp; Prof. Mohammed Benhaddou</p>
15:30 – 15:55	<p><b><u>PLENARY CONFERENCE #17</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. José L. GUIL-Guerrero</b> - University of Almería (<b>Spain</b>)</p> <p>“ <b>Marine-Derived Antioxidants as Sustainable Strategies for Corrosion Mitigation in Materials</b>”</p> <p>Chairs: Prof. Said Taboukhat &amp; Prof. Rachid Benkaddour</p>
16:00 - 17:30	<b>BREAK</b>
17:30 – 18:30	<p style="text-align: center;"><b>Official Opening Ceremony ICMES'26</b></p> <p><b><u>OFFICIAL OPENING SPEECHES</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p>Chairs: Prof. Jamal HADADI &amp; Prof. Zineb KASSAB</p>
18:30 – 19:10	<p><b><u>SPECIAL GUEST #18</u></b> </p> <p><b>Prof. Omar M. Yaghi</b> - University of California, Berkeley (<b>USA</b>)</p> <p style="text-align: center;"><b>WINNER OF THE 2025 NOBEL PRIZE IN CHEMISTRY</b></p> <p>“<b>RETICULAR MATERIALS FOR CARBON CAPTURE AND WATER HARVESTING FROM DESERT AIR IN THE AGE OF AI</b>”</p> <p>Chair: Prof. Mohamed Eddaoudi, University of KAUST (<b>Saudi Arabia</b>)</p>

19:15 – 20:30	 <p><b>BEST PRESENTATION AWARDS (180 SECONDS)</b></p> <p>Chairs: International Jury Members</p>
20:30 – 21:00	<b>ICMES 2026   Tribute to the Speakers</b>
21:00 – 23:00	Dinner 

## Day 4 Sunday, June 14, 2025

09:00 – 09:25	<p><b><u>PLENARY CONFERENCE #19</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Mohamed Siaj</b> - University of Sherbrooke (<b>Canada</b>)</p> <p style="text-align: center;"><b>“ From Crystallinity to Circularity: Covalent Organic Framework Chemistry for Selective Recovery of Valuable Metals from E-Waste ”</b></p> <p>Chairs: Prof. Belkheir Hammouti &amp; Prof. Touria Hachi</p>
09:30 – 09:55	<p><b><u>PLENARY CONFERENCE #20</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Jamal Moussa</b> - University of Sorbonne (<b>France</b>)</p> <p style="text-align: center;"><b>“ Pyridylidenes-an underexplored class of ligands-and their related organometallic complexes for novel opportunities in various applications ”</b></p> <p>Chairs: Prof. Mohammed Benaichi &amp; Prof. Larbi Rhazi</p>
10:00 – 10:25	<p><b><u>PLENARY CONFERENCE #21</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Hassan Ait Ahsaine</b> - Mohammed V University (<b>Morocco</b>)</p> <p style="text-align: center;"><b>“ From Frameworks to Function: MOF-Derived Materials Driving Hydrogen Evolution ”</b></p> <p>Chairs: Prof. Mohamed Eddaoudi &amp; Prof. Rachid Touzani</p>
10:30 – 10:55	<p><b><u>PLENARY CONFERENCE #22</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Mohammed Jaouad Meziani</b> - Northwest Missouri State University (<b>USA</b>)</p> <p style="text-align: center;"><b>“ Polymeric Nanocomposites of Boron Nitride Nanosheets for Enhanced Directional or Isotropic Thermal Transport Performance ”</b></p> <p>Chairs: Prof. Mohcine Kodad &amp; Prof. El Hassan Abba</p>
11:00 – 11:25	<p><b><u>PLENARY CONFERENCE #23</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Said Taboukhat</b> - University of Angers (<b>France</b>)</p> <p style="text-align: center;"><b>“Molecular and Metal-Complex Engineering for Advanced Nonlinear Photonic Materials”</b></p> <p>Chairs: Prof. Ossama El Abouti &amp; Prof. Farid Falyouni</p>
11:30 – 11:55	<p><b><u>PLENARY CONFERENCE #24</u></b> <span style="float: right;"><b>Conference Hall</b></span></p> <p><b>Prof. Abdelkrim El-Ghayoury</b> - University of Angers (<b>France</b>)</p> <p style="text-align: center;"><b>“ Mononuclear and Metallohelicates for (non)linear optics ”</b></p> <p>Chairs: Prof. Bouchta Sahraoui &amp; Dr. Zakariae Abbaoui</p>

12:00-13:30	<p style="text-align: center;"><b>Closing Ceremony</b></p> <p style="text-align: center;"><i>Participant Certificates Distribution</i>      <b>Conference Hall</b></p> <p><b>Chairs: Prof. Jamal Hadadi, Prof. Zineb Kassab</b></p>
<p style="text-align: center;"><b>June 12, 2026</b></p> <p style="text-align: center;">At:</p> <p style="text-align: center;"><b>11:15 -11:30</b></p> <p style="text-align: center;">Or</p> <p style="text-align: center;"><b>17:30 -18:00</b></p>	<p style="text-align: center;"><b>Detailed Poster Session</b></p> <p><b>Chairs: Prof. Bouchta Sahraoui, Prof. Souhir Boujday, Prof. Naïma El Assaoui &amp; Prof. Rachid Touzani</b></p>
	<p><b>(ID44):</b> « <i>Electrochemical DNA Biosensing for the Assessment of Genotoxic Effects of Heavy Metals in Olive Mill Wastewater</i> » <b>Chaimae Ameich</b>, Hamza Moustakim, Hasna Mohammadi, Said Boughribil.</p> <p><b>(ID45):</b> « <i>Groundwater Mercury Dynamics in the Karstified Chalk Aquifer of the Pays de Caux, France</i> » <b>Lahcen Zouhri</b>, Pascale Lutz, Jacques Delepine.</p> <p><b>(ID47):</b> « <i>Metal Oxide Modified Electrode for Highly Sensitive and Selective Detection of Ciprofloxacin and Diclofenac Sodium</i> » <b>Ouaaouch Soufiane</b>, Amine Ezzahi, Mama El Rhazi.</p> <p><b>(ID63):</b> « <i>Fabrication of a phosphate-Based Nanocomposite with Enhanced Adsorption Performance for the Removal of Anionic Dye</i> » <b>Majda Et-thamry</b>, Jamal Ait-wakrim, Najoua El Assali, Karim Tanji, Abdelghani Hsini, Abdelillah Shaim.</p> <p><b>(ID106):</b> « <i>Multidimensional approach to the essential oil of Cannabis sativa L.: bioactive potential, mechanisms of systemic toxicity, implications for fertility, in vivo study in rabbits and computational analyses.</i> » <b>Hamid Srout</b>, Ayoub Ainane, Sanaa Cherroud, Mounir Derbal, Chayma Ait Naanaa, Mustapha Ouhcine, Karim Oussaid, Tarik Ainane.</p> <p><b>(ID123):</b> « <i>Nickel rich steels and alloys for hydrogen production via electrolysis</i> » <b>Oussama Fareh</b>, Ikram Cheras, Imane En-Narhmouchy, Jamal Bencaid, Bilal Brioual, Mustapha Matrouf, Brahim Boubeker, Abdelhadi El Jaouhari, Fouad Ghamouss.</p> <p><b>(ID125):</b> « <i>Development of Functional Cerium-Based Phosphate Glasses for Advanced Corrosion Protection</i> » <b>Hassnaa Ourahou</b>, Najoua El Assali, Driss Rair, Moussa Ouakki, Zakia Aribou, Touria Jermoumi, Abdelkrim Chahine.</p> <p><b>(ID135):</b> « <i>Water Management through Early Childhood Environmental Education: The Eco-Schools Program among Preschool Children in Casablanca, Morocco</i> » <b>Ainane Tarik</b>, Ezzahi asmaa, Ainane Ayoub, Sabour Alaoui Sanaa.</p> <p><b>(ID150):</b> « <i>Hydrogeochemical and microbiological assessment of groundwater quality in the Fez meknes aquifer using Water Quality Index, Mivrobiological Quality Index and Heavy Metal pollution Index</i> » <b>Chaymae Tsouli</b>, Anas Otmani, Karim Idoumajoud.</p> <p><b>(ID158):</b> « <i>Goat Milk in Female Metabolic Health: A Functional Food Approach to Polycystic Ovary Syndrome</i> » <b>Kaoutar Ejja</b>, Fatima-Zahra Yassif , Youssef Aboussaleh.</p> <p><b>(ID201):</b> « <i>Towards High-Loading Immobilization of Spent Ion Exchange Resins in Metakaolin-Based Geopolymers</i> » <b>Imane Bouday</b>, Hasna Hamdane, Abdelkrim Chahine.</p> <p><b>(ID208):</b> « <i>Comparative Study of Electromagnetic Wave Interactions: Applications of GPR and Microwave Heating</i> » <b>Abdelouahad Oussaid</b>, Tahar Bachiri, Adyl Oussaid.</p> <p><b>(ID214):</b> « <i>Ethnobotanical study of rosemary in the region Tangier-Tétouan-Al Hoceïma</i> » <b>Shitri Meriem</b>, Chadia El Ouazzani, Er-Ramly Azzedine, Moustaghfir Abdellah, Jamila Jastimi, Abdellah Dami, Lhoussaine Balouch.</p> <p><b>(ID227):</b> « <i>Valorization of Moroccan clays on ceramics and refractory applications</i> » <b>Cheraa Siham</b>, Tamraoui Youssef.</p> <p><b>(ID234):</b> « <i>From Powder to Functional Films: Evolution of MOF Thin Films in Active and Smart Packaging</i> » <b>Laksir Asmae</b>, Marieme Kacem, Mehdi Mennani, Jamal El Haskouri, Meryem Idrissi Yahyaoui, Rachid Touzani, Aziz Boulouiz, Abdeslam Asehrou, Mustapha Dib, Zineb Kassab.</p> <p><b>(ID238):</b> « <i>Synthesis and Characterization of Hydrophobic Cellulose Nanofibers via a Solvent-Free Gas-Solid Process</i> » <b>Ahmed Ramdani</b>, Ramzi Khiari, Naceur Belgacem, Abdeslam Asehrou, Fouad Malek.</p> <p><b>(ID248):</b> « <i>Development of polysulfide-based materials for the removal of heavy metals in aqueous media and phosphoric acid</i> » <b>Meriam Ioui</b>, Hicham Majdoubi , Johan Jacquemin.</p> <p><b>(ID251):</b> « <i>Herb-Drug interactions between medicinal plants and conventional treatments: a cross-sectional study</i> » <b>Hind Ouhaddouch</b>, Hajar Daoudi, Abdelhak Chergui, El Amine Ajal, Imane Zakariya, Rachid Nejari.</p>

**(ID252):** « *Precipitation based Purification of Phosphoric Acid and extraction of Valuable By- Products* » **Essaouidi Hind**, Fatima Zahra Cherif, Hassan Hannache.

**(ID235):** « *Impact of Lithium Incorporation on the Phase Evolution and Charge Transport of Ca<sub>2</sub>P<sub>2</sub>O<sub>7</sub>: A Structural, Microstructural, and Electrical Study* » **Yousra Kachbou**, Khalil Azzaoui, Leila Ouachouo, Lahcen Bih, Rachid Salghi, Belkheir Hammouti.

**(ID233):** « *Bio-Derived  $\pi$ -Conjugated Natural Products as Sustainable Feedstocks for Functional Energy-Related Materials* » **Bilkisu Adedoyin**, Yahaya Ibrahim Zayyana, Ahmed Umar

**(ID290):** « *From Green Bimetallic Fe–Cu to Smart Sensing: CNT-Based Screen-Printed Electrode for Diclofenac Detection* » **Imad Elazhary**, A.Bedahhou, S.Benhaiba, S. Skakri, A. Ezzahi, M. El Rhazi



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## ICMES 2026



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Innovations in Water and Energy Technologies, and Materials Science for Climate Resilience and Sustainability.



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