



# ESWAE 2024

11TH GLOBAL CONGRESS ON RENEWAL ENERGY AND ENVIRONMENT

ISTANBUL ATASEHIR ZUBEYDE HANIM HIZMETICI  
EGITIM ENSTITUSU, ATASEHIR – ISTANBUL

21 - 23 NOVEMBER 2024 | KÜÇÜKBAKKALKÖY MAH. MERDIVENKÖY YOLU CAD. NO.9 ATAŞEHİR/İSTANBUL

## PROGRAM BOOK

ESWAE-2024 Participant Flags



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# **11th Global Congress on Renewable Energy and Environment (ESWAE-2024)**

**Main Theme: The United Nations 17 Sustainable Development  
Goals**

**Istanbul Atasehir Zubeyde Hanım Hizmetici Egitim Enstitüsü  
Atasehir – Istanbul**

**Venue Address:** Küçükbakkalköy Mah. Merdivenköy Yolu Cad. No.9 Ataşehir/İSTANBUL

**November 21 - 23, 2024**

**Online and Face to Face International  
Conference**

**Google Meeting Code**

**<https://meet.google.com/yrf-jzyr-oho>**

## **Program Book**

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# Keynotes



## **Prof. Dr. Sibel Balci**

TED University, Turkey

**Keynote Title:** "Integrating Sustainable Development Goals into University Life: Challenges and Opportunities"

**Biography:** Prof. Dr. Sibel Balci works as a faculty member in the Department of Primary Education at TED University Faculty of Education. Dr. Balci is a distinguished academic in the field of science

education, with a particular focus on education for sustainable development. She completed the Department of Secondary Science and Mathematics Education, Middle East Technical University. Dr. Balci then pursued her Ph.D. at the same institution, where she specialized in eco-schools. Her work has encompassed sustainable development goals, primarily in the context of SDG 4 Quality Education. Dr. Balci is also a dedicated educator, teaching courses in environmental education, science education integrated with sustainable development goals and related fields. She is known for her commitment to student success and her ability to inspire future teachers. Beyond her teaching and research, she actively engages in environmental projects and collaborates with partners to develop sustainable environmental solutions.

Currently serving as the Dean of Students, her work with university students involves topics such as sustainable campus practices, gender equality, responsible consumption and production. At present, she is collaborating with a researcher benefiting from the Marie Curie Postdoctoral Fellowship Program to systematically design a core curriculum and extracurricular activities for integrating sustainable development goals into University life.

Prof. Dr. Balci's work continues to make significant impacts in the field of education for sustainable development, reflecting her dedication and expertise.



## Dr. Sonila Daiu

University Metropolitan Tirana, Albania

**Keynote Title:** "Future-Ready Education: The Role of English Language and Technology in Meeting SDGs"

**Biography:** Sonila Daiu is the Dean of Students and a lecturer at University Metropolitan Tirana, where she lectures and conducts the management and coordination of academic and social activities, alumni relations, and student admissions in a higher education institution. This includes providing academic and social support, assisting alumni, defining admission policies, developing the campus environment, collaborating with student clubs, managing administrative tasks, and monitoring student performance. Graduated in English Language in 2002 from the

Department of English Language, Faculty of Foreign Languages, Aleksandër Xhuvani University, Elbasan and Postgraduate specialization in Methodology – Linguistics at the University of Tirana, Faculty of Foreign Languages, Department of English Language, in 2009. In 2013, she enrolled in a Ph.D. program in Linguistics at the Department of English Language, University of Tirana, and in September 2016, she earned a Ph.D. in Linguistics.

Her work has focused on expertise in public communication, linguistics, ESP (English for Specific Purposes) focused on the specific and professional needs of the learners. It includes areas such as English for Business, English for Engineering Purposes, English for Academic Purposes, and many other specialized field, self-confidence, and writing structure. In addition to her educational skills, she has several years of experience training students in ideation, structuring, and implementing their ideas in the startup world. She provides specialized assistance and guidance to help students develop successful ideas, organize their structure, and apply them in practice through personalized training. She has participated in and presented at various national and international conferences and has a considerable number of scholarly publications. She is also engaged in Erasmus+ projects.

**Research Fields of Interest:** Her main research interests include corpus linguistics and the application of corpus methods in the study of language and writing, native and foreign language correctness from a practical and innovative perspective in interaction with today's technological developments.





## **Assoc. Prof. Dr. Serkan İlseven**

Near East University, Department of  
Environmental Education, Lefkosa - North Cyprus

**Keynote Title:** The advantages of the Lefke CMC Area in Cyprus, which is being transformed into a Geopark within the scope of applied environmental education, and the problems that will arise during the implementation of this project

**Biography:** Artist Serkan İlseven was born on February 17, 1966 in Paphos, Cyprus. After completing his primary education in Paphos and secondary education in Lapta, he graduated from the

Department of Geography of the Faculty of Social Sciences of Izmir Dokuz Eylül University in 1989. He worked as a teacher and administrator in various high schools affiliated with the TRNC Ministry of National Education between 1990-2009. He served as the Director of Administrative, Financial, Technical and Parliamentary Services in the TRNC Assembly of the Republic between 2009-2019, as the general manager of the Presidency between 2020-2023, and as the undersecretary of the Ministry of Labor and Social Security between 2023-2024. He is currently the chairman of the TRNC Presidency Culture and Arts Committee. He is a member of the Presidential Bi-communal Environmental Committee. He is the Vice President of the TRNC Environmental Protection Foundation. He completed his MA in Physical Geography in 2009 and his PhD in Environmental Education and Management at the Near East University Institute of Educational Sciences in 2014. He became an Associate Professor in 2019. İlseven teaches at the Geography Department and the Environmental Education and Management Department of the Faculty of Arts and Sciences at Near East University. He has published books titled Geography of Cyprus, Forest and Park Trees of Northern Cyprus, Human, Economic and Political Geography of Cyprus, Physical Geography of Cyprus, Orchids of Cyprus, Principles of Vegetation Geography, Forest and Park Trees of Cyprus. Dozens of his articles have been published in international journals. He started painting in the early 1980s by taking painting lessons from the painter Alper Özkemal. He has held 8 solo exhibitions and hundreds of group exhibitions in Turkey and abroad. Serkan İlseven, whose works are in private collections at home, abroad and in Turkey, was awarded the XIIIth State Painting and Sculpture Exhibition Award in 1998, the PGM Award in 2000 and the Fergani Award given by the Near East University to master painters in 2020. He participated in the TURKSOY Painters Meeting (Mersin) in 2002 and the International Art Days (Izmir) in 2004 as the TRNC representative. He is the father of two daughters named Polen and Dolin.

## IMPORTANT EVENTS

|               |                         |
|---------------|-------------------------|
|               |                         |
| 10:00 - 10:30 | <b>Opening Ceremony</b> |

| TIME                              | TITLE  | SPEAKER                                      | HALL NAME |
|-----------------------------------|--|--|-----------|
| <b>Keynote 1</b><br>10:20 - 11:00 | Integrating Sustainable Development Goals into University Life: Challenges and Opportunities | <b>Sibel Balci</b><br>TED University, Turkey | <b>1</b>  |

|               |                     |
|---------------|---------------------|
| 11:00 - 11:20 | <b>Coffee Break</b> |
|---------------|---------------------|

| TIME                              | TITLE   | SPEAKER  | HALL NAME |
|-----------------------------------|---|--|-----------|
| <b>Keynote 2</b><br>11:20 - 12:00 | Future-Ready Education: The Role of English Language and Technology in Meeting SDGs | <b>Sonila Daiu</b><br>University Metropolitan<br>Tirana, Albania | <b>1</b>  |

| TIME  | TITLE   | SPEAKER  | HALL NAME |
|---|---|--|-----------|
| <b>Keynote 3</b><br>09:00 - 09:40<br>Friday | The advantages of the Lefke CMC Area in Cyprus, which is being transformed into a Geopark within the scope of applied environmental education, and the problems that will arise during the implementation of this project | <b>Serkan İlseven</b><br>Near East University,<br>North Cyprus | <b>1</b>  |



## 21/11/2024, Thursday PROGRAM

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|---------------|-------------------------|
|               |                         |
| 10:00 - 10:30 | <b>Opening Ceremony</b> |

| TIME                              | TITLE  | SPEAKER                                      | HALL NAME |
|-----------------------------------|--|--|-----------|
| <b>Keynote 1</b><br>10:20 - 11:00 | Integrating Sustainable Development Goals into University Life: Challenges and Opportunities | <b>Sibel Balcı</b><br>TED University, Turkey | <b>1</b>  |

|               |                     |
|---------------|---------------------|
| 11:00 - 11:20 | <b>Coffee Break</b> |
|---------------|---------------------|

| TIME                              | TITLE   | SPEAKER  | HALL NAME |
|-----------------------------------|---|--|-----------|
| <b>Keynote 2</b><br>11:20 - 12:00 | Future-Ready Education: The Role of English Language and Technology in Meeting SDGs | <b>Sonila Daiu</b><br>University Metropolitan<br>Tirana, Albania | <b>1</b>  |

### Session – 1 Oral Presentation 12:00 – 13:00

#### CENVISU HALL

| ORDER | TITLE   | AUTHOR, AFFILIATION and COUNTRY  |
|-------|---|--|
| 1.    | Environmental Performance of Hotels: An Insight from Managers   | Uygar Turgut, Umut Avcı, Işıl Arıkan Saltık, Fevzi Okumuş, Muğla Sıtkı Koçman University, Turkey, University of Central Florida, United States |
| 2.    | Art, Technology, Posthumanism: Towards Reconnecting with Nature   | Tijen Tunali, Rennes University  |
| 3.    | Evaluation of Environment Education Need in Northern Cyprus   | Gulizar Eroglu   |
| 4.    | Wood And Plastic Pyrolysis Kinetic Modeling   | Aysan Safavi, University of Iceland, Iceland   |
| 5.    | The Role Of Artificial Intelligence In Modern Education System  | Sevinj Aliyeva, Baku Slavic University, Azerbaijan   |
| 6.    | Effect of method of compaction on the Permeability of Landfill Liners and Covers                                | Belkacem Moussai, Usthb University, Algiers, Algeria   |
| 7.    | Predicting the Next Decade of Sea Level Temperatures in the Mediterranean Sea Using Hybrid Deep Learning Models | Ihsan Uluocak, Cukurova university, Turkey   |

## ESWAE HALL

| ORDER | TITLE   | AUTHOR, AFFILIATION and COUNTRY  |
|-------|---|--|
| 1.    | Hot Red Pepper Drying With A Solar Greenhouse Dryer   | Nadia Metidji, Hichem Bendjebbas, UDES/Centre de Développement des Energies Renouvelables, Algeria   |
| 2.    | Energy Performance Evaluation of a near-Zero Energy Solar House Demonstrator: A case study in northwest Algeria                                       | Ghania Mohand Kaci, UDES/Centre de Développement des Energies Renouvelables, Algeria   |
| 3.    | Thermal performance Analysis of Al <sub>2</sub> O <sub>3</sub> -MWCNT/radiator coolant hybrid nanofluid for flat plate solar collector                | Rahman Mohd. Mostafizur, Mohammad Golam Rasul, Md Nurun Nabi, Central Queensland University, Australia   |
| 4.    | Multiscale Entropy Analysis of Combustion Instability and Complexity in Diesel-Biodiesel Blends: Impact on Performance, Emissions, Energy, and Exergy | Rahim Karami, Ali Maleki, Mohammad Golam Rasul, Marsyeh Hoseionpur, Central Queensland University, Australia, Shahrekord University, Ferdowsi University, Iran |
| 5.    | Experimental and Computational Analysis of Diesel Engine Performance, Emission and Combustion Behaviour with Premixed Gasoline Fuel                   | Marsyeh Hoseionpur, Rahim Karami, Mohammad Golam Rasul, Md Islam Jahirul, Ferdowsi University of Mashhad, Iran, Central Queensland University, Australia       |
| 6.    | Metal-based cathode modification for green production of hydrogen   | Younes Abghoui, University of Iceland, Iceland   |
| 7.    | Ambient temperature and solar radiation effects on absorber and collector mean temperature in a solar chimney   | Razika Ihaddadene, University of M'Sila, University Pole, Algeria  |

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|---------------|-------|
| 13:00 - 13:40 | Lunch |
|---------------|-------|

### Session – 2 Oral Presentation 13:40 - 15:20

## ESWAE HALL

| ORDER | TITLE  | AUTHOR, AFFILIATION and COUNTRY   |
|-------|--|---|
| 1.    | The impact of wall orientation on thermal exchanges within a room: A case study of Ouled Sidi Brahim in the spring season                    | Nabila Ihaddadene, Mohamed Choudira, Razika Ihaddadene, M'Sila University, Algeria                          |
| 2.    | Effects of the tall buildings on the pollutant's dispersion into the atmosphere  | Mohamed Aksouh, Malak Sengouga, Lwiza Dib, University of Sciences and Technology Houari Boumediene, Algeria |
| 3.    | The Role of cyanothiophene Derivatives in Inhibiting Carbon Steel Corrosion in acidic medium : A Combined Experimental and Theoretical Study | Yazid Datoussaid, Ecole superieure en sciences appliquées de Tlemcen Algeria                                |

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|----|--|--|
| 4. | State Of Vegetation Resources with Accelerated Desertification In The Yobe Region Of North East Nigeria            | Ibrahim Ahmed Jajere, Federal University, Gashua Yobe State, Nigeria   |
| 5. | Design, analysis and implementation of a high-gain quasi-switched boost inverter for renewable energy applications | Majid Hosseinpour, Pooria Azimi, University of Mohaghegh Ardabili, Iran  |
| 6. | Valorization of bottom ash from incinerated hospital waste as an adsorbent of reactive dye                         | Ouadjenia Fatima, University of Mostaganem, Algeria  |
| 7. | Corrosion inhibition of carbon steel in acidic media using a natural compound                                      | Amel Boukhouiete, Saliha Boumendjel, Université Badji-Mokhtar, Annaba, Université Hassiba Benbouali-Chlef, Algeria |

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|---------------|---------------------|
| 15:20 – 15:40 | <b>Coffee Break</b> |
|---------------|---------------------|

**Session – 3**  
**Oral Presentation**  
**15:40 - 17:00**

**ESWAE HALL**

| ORDER | TITLE   | AUTHOR, AFFILIATION and COUNTRY  |
|-------|---|--|
| 1.    | Analyzing The Impact Of Climate Change On Public Health: Artificial Neural Networks Modeling  | Bouharati Saddek, Bouharati Khaoula, Bouharati Imene, UFAS, Setif 1 University, Algeria      |
| 2.    | Absorption Improvement of a Ultra-thin silicon Solar Cell Using Cubic and Disk-Shape Nano Clusters  | Alireza Pilehroudi, Javad Javidan, Hamid Heidarzadeh, University of Mohaghegh Ardabili, Iran |
| 3.    | Nuclear Technology: A Catalyst for Advancing Sustainable Development Goals  | Rahat Iqbal, Center for International Strategic Studies, Islamabad Pakistan                  |
| 4.    | Design and Optimization of Polymer-Based Organic Solar Cells with Enhanced Photocurrent Using Plasmonic Metal-Metal Core-Shell Nanoparticles          | Hamid Heidarzadeh, University of Mohaghegh Ardabili, Iran.                                   |
| 5.    | Kinetic and thermodynamic study of Rhodamine B removal by natural bio-adsorbent from aqueous solution   | Reda Marouf, University of Mostaganem, Algeria   |
| 6.    | The Progress of Specific Perovskites Nitride and Their Composites, Highlighting Recent Advances and Applications in Energy Storage, Energy Scavenging | Saadiya Benatmane, BP227 Abdelhamid Ibn Badis University                                     |
| 7.    | Performance Of an Ejector Refrigeration System with New Alternative Friendly Refrigerants   | Zoheir Derghout, Kasdi Merbah University, Ouargla  |

## Poster Presentations

### Session – 1 12:00 – 13:00

| ORDER | TITLE  | AUTHOR, AFFILIATION and COUNTRY   |
|-------|--|---|
| 1.    | Comparative Analysis Of Wind And Solar Energy: Efficiency, Costs, And Environmental Impacts In Diverse Regions   | Fenni Mohamed, UFAS Setif1 University, Algeria  |
| 2.    | Modeling The Impact Of Climate Change On Renewable Energy Production: An Artificial Neural Network Approach  | Allag Fateh, University Of Setif1 -Algeria  |
| 3.    | Spatio-temporal occupation of forest ecosystems: Case of Beni Smiel, Tlemcen   | Sabiha Bouchaour-Djabeur, Mohamed Abdelmonaim Beneddra, Kheloufi Benabdeli, Tlemcen University, Mascara University, Algeria |
| 4.    | Modeling The Impact Of Climate Change On Wildlife Using Artificial Neural Networks   | Bounechada Mustapha, University of Setif1, Algeria  |
| 5.    | In Silico study for efficient prediction of power conversion efficiency of organic dye solar cells   | Touhami Moufida University Of Saida – Dr. Moulay Taher 20002 Saida, Algeria   |
| 6.    | Investigation of the Efficacy of a Medicinal Plant-Based Drug as a Corrosion Inhibitor for Copper in Sulfuric Acid   | Tarik Attar, Ecole Supérieure En Sciences Appliquées De Tlemcen, Essa-Tlemcen, Algeria                                      |
| 7.    | Modeling and simulation of organic solar cells based on P3HT: PCBM using SCAPS 1-D (Influence of defects and temperature on the performance of the solar cell) | Souhila Benyelles Boukli Hacene, Abdelhak Chikhaoui, University of Tlemcen, Algeria   |

### Session – 2 14:00 – 15:00

| ORDER | TITLE   | AUTHOR, AFFILIATION and COUNTRY   |
|-------|---|---|
| 1.    | Calculation of the Physico-Chemical Properties of the Material SrBi2B2O7 by the Density Functional Theory                           | Naouel Boudghene Stambouli Bendimerad, Tarik Ouahrani Ouahrani, Ecole Supérieure en Sciences Appliquées de Tlemcen, Algeria   |
| 2.    | Application of the Optimal Derivative to the Study of the Stability of an Electronic Circuit Under the Effect of Different Voltages | Lassouani Fatiha, ESSA_Tlemcen<br>Ecole Supérieure en Sciences Appliquées de Tlemcen , Algeria  |
| 3.    | Comparative genomic analysis of plant growth-promoting traits in analyses Actinophytocola species                                   | Khaoula Bouznada, Manel Zahida Bellouti, Atika Meklat, Ecole Normale Supérieure de Kouba, Algeria   |
| 4.    | Evaluating Energy Efficiency in Building Design Through Transient Thermal Simulations of Soil-Structure Interaction                 | Mustapha Maliki, Nadia Laredj, Nadia Laredj, University of Mostaganem – 27000 - Algeria   |
| 5.    | Analysis and Control of Photovoltaic Array Fed High Gain Multilevel DC-DC Boost Converter for Smart Microgrid Application           | Fethi Akel, Adil Atoui, Aissa Meflah, Douadi Bendib, Zoubeyr Smara, Fathia Chekired, UDES, Centre de développement des énergies renouvelables, Polytechnic National School, Centre universitaire de Tipaza, Algeria |
| 6.    | Effect of using fuel-oil on regulating water advance and recession times in a conventionally irrigated furrow system                | Mohamed Ridha Aissaoui, Ferhat ABBAS University, Setif-1, Alegria   |

**Session – 3**  
**15:00 – 16:00**

| ORDER | TITLE  | AUTHOR, AFFILIATION and COUNTRY   |
|-------|--|---|
| 1.    | Development of anode materials for sodium ion batteries consisting of electrospun carbon nanofibers and activated carbons deriving from food waste | Alessandra Di Blasi, National Council of Research, Rome, Italy  |
| 2.    | Robust Control Using IDA-PBC Approach For Thermoelectric System  | Toualbia Asma, Belhadj Djilali Abdelkadir Abdelkadir, Hassiba Benbouali University, Algeria               |
| 3.    | Investigation of Expired Drug Efficacy as a Corrosion Inhibitor for Copper in Sulfuric Acid  | Tarik Attar, Benchadli Abbes, Ecole Supérieure En Sciences Appliquées De Tlemcen                          |
| 4.    | Implementation of a Perturb and Observe (P&O) Algorithm-Based Technique for Maximum Power Point Tracking (MPPT) in Solar Photovoltaic Systems      | Hadjira Tayoub, Research Center in Industrial Technologies CRTI, Algeria                                  |
| 5.    | Evaluation of the Cytotoxicity of Wastewater from the Guelma Sewage Treatment Plant, Algeria, Using the Allium cepa Test                           | Rym Merabet, Messaouda Khalef, Djamel-Eddine Benouareth, Chiraz Maghlout, University of 8 Mai 1945 Guelma |
| 6.    | Endocrine Disruptor Contamination in Algerian Wastewaters: Detection of Bisphenol A in the Guelma City WWTP  | Rym Merabet, Djamel-Eddine Benouareth, Roufaïda Douakha, University of 8 Mai 1945 Guelma, Algeria         |
| 7.    | Effect of Environmental and Anthropogenic Factors on Soil Quality by Artificial Neural Networks  | Fenni Mohamed, UFAS Setif1 University, Algeria  |

**Session – 4**  
**16:00 – 17:00**

| ORDER | TITLE   | AUTHOR, AFFILIATION and COUNTRY   |
|-------|---|---|
| 1.    | Potentiometric sensors for inorganic anions monitoring in the environment   | Cecylia Wardak, University of Maria Curie-Skłodowska, Poland  |
| 2.    | Determination of trace amounts of selected metal ions in environmental waters by stripping voltammetry using bismuth electrodes | Malgorzata Grabarczyk, University of Maria Curie-Skłodowska, Poland   |
| 3.    | The importance of implementing the SDG's in the classroom in training future responsible citizens                               | Andreia Marlise Carneiro de Carvalho, Isilda Teixeira Rodrigues, UTAD - University of Trás-os-Montes and Alto Douro CITAB ,Portugal |

**End of the Day**

**22/11/2024, Friday**

| TIME                              | TITLE   | SPEAKER  | HALL NAME |
|-----------------------------------|---|--|-----------|
| <b>Keynote 3</b><br>09:00 - 09:40 | The advantages of the Lefke CMC Area in Cyprus, which is being transformed into a Geopark within the scope of applied environmental education, and the problems that will arise during the implementation of this project | <b>Serkan İlseven</b><br>Near East University,<br>North Cyprus | <b>1</b>  |

**Session – 1**  
**Virtual Presentation**  
**09:40 – 11:00**

| ORDER | TITLE  | AUTHOR, AFFILIATION and COUNTRY   |
|-------|--|---|
| 1.    | Examining the Macroeconomic Effects of Green Finance on the Sustainable Development Goals in G20 Countries                           | Cosimo Magazzino, Süleyman Bolat, Behnaz Saboori, Roma Tre University, Italy, Aksaray University, Turkey, Sultan Qaboos University, Omand |
| 2.    | Insight Review on solar still application  | Alaa Ahmed Hamdoon, Afrah Turki Awad, Kirkuk, Northern Technical University, Iraq   |
| 3.    | Synthesis of Ag-ZnO/MOF nanocomposite for degradation of dye from aqueous solution under UV light                                    | Hayder Mahmood Hameed, Israa Abbas Hasan, Afrah Turki Awad, Northern Technical University, Iraq   |
| 4.    | Motor-Controlled Lotus Fiber Extraction System for Sustainable Textile Production in Caraga Region, Philippines                      | Marisol Jane Margallo Beray, Alvin Gabor, Andrea Anne Tabangcora, Donalyn Macas, Caraga State University, Philippines                     |
| 5.    | Analysis of the characteristics of zinc oxide nanofilm applied to a glass substrate  | Mohammed Waleed Muayad, Chra Najm Salih, Hudhifa Taha Ali, Lava Shireef, Afrah Awad, Northern Technical University - Iraq                 |
| 6.    | Soiling distribution in a Fresnel solar plant under real operating conditions: an analysis of reflectivity values in different zones | David Larra, Universidad de Extremadura, Spain  |

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|---------------|---------------------|
| 11:00 – 11:20 | <b>Coffee Break</b> |
|---------------|---------------------|

**Session – 2**  
**Virtual Presentation**  
**11:20 – 13:00**

| ORDER | TITLE   | AUTHOR, AFFILIATION and COUNTRY  |
|-------|---|--|
| 1.    | Detection of microplastics in wild-caught lagoon fish species | Omowunmi Hannah Fred-Ahmadu, Afe Babalola University, Ado-Ekiti, Nigeria |

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|----|---|--|
| 2. | Creation of a System for Recognition and Attribution of the Seal - Sustainable Company INOVAR+2.0                           | Natasha Jesus, Sofia Cardim, Mário Borges, Instituto Politécnico de Bragança, Portugal                             |
| 3. | Microplastics and Heavy Metal Co-Contamination: Effects on the Soil   | Namita Das, Dr Geetha Kannan, City University Ajman, Bits Pilani Duabi Campus, UAE                                 |
| 4. | Advanced Machine Learning Techniques for Groundwater Discharge Forecasting in semi arid region                              | Abdessamad Elmotawakkil, Department of Computer Science Ibn Tofail University Kenitra Faculty of Sciences, Morocco |
| 5. | Factors Associated with Antisocial Behavior Patterns Among Syrian Child and Adolescent Forced Migrants: A Literature Review | Ahmed Taha Arifoglu, Istanbul University-Cerrahpasa, Turkey  |
| 6. | Comparison of total phenolic content and antioxidative activities of EU PDO Malatya apricot (Prunus armeniaca L.) kernels   | Mert Aydin, Munzur University, Turkey  |

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| 13:00 – 13:40 | <b>Lunch</b> |
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**Session – 3**  
**Virtual Presentation**  
**13:40 – 15:00**

| ORDER | TITLE   | AUTHOR, AFFILIATION and COUNTRY  |
|-------|---|--|
| 1.    | A review on hydrogen commercialization - applications, policy and production scenario   | Mohammad Golam Rasul, Md Abdus Sattar, Md Islam Jahirul, Md A Hazrat, Chisholm Institute, Australia, Central Queensland University, Australia                        |
| 2.    | PI controls power generated by PV Solar inverter injected into the electrical grid  | Nora Zerzouri, University Badji Mokhtar Annaba, Algeria  |
| 3.    | Electrochemical performances and synthesis of CP/(Ni-Fe-V) Ternary-LDHS Hybrid materials for electrochemical storage applications | Soraya Bouachma, Afaf Brik, Sabrina Naama, Sihem Aissiou, Toufik Hadjersi, CRTSE Centre de Recherche en Technologies des Semi-conducteur pour l'Energétique, Algeria |
| 4.    | Geometrical optimization study of a tubular adsorber of adsorption cooling machine using activated carbon/methanol                | Wassila Chekirou, Nahman Boukheit, Achene Karaali, Frères Mentouri University, Algeria   |
| 5.    | Ambient temperature and solar radiation effects on absorber and collector mean temperature in a solar chimney                     | Razika Ihaddadene, University of M'Sila, University Pole, Algeria  |
| 6.    | Simulation and Assessment of Emissions Reduction Potential of an ORC-based Exhaust Heat Recovery Model Automobile Application     | Julius Thaddaeus, Federal University Wukari, Nigeria   |

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| 22.11.2024<br>15:00 – 15:20 | <b>Closing Ceremony</b> |
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**23/11/2024, Saturday**

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|-----------------------------|--------------------------|
| 23.11.2024<br>09:30 – 17:00 | <b>Social activities</b> |
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