

ICENSTED 2025 PROGRAM

Friday, June 20, 2025

Conference Opening

Conference Hall (Faculty of Engineering, Bayburt University, Bayburt)

09:15 – 10:00	Registration and Tea/Coffee Service	
10:00 – 11:30	Opening Ceremony	Asst. Prof. Dr. Erman Kadir Oztekin – On Behalf of the Organizing Committee
	Opening Session	<p>Surface Plasmon Resonance Optical Sensor for Ultrasensitive Detection of Environmental Pollutants Using Graphene-Based Nanomaterials</p> <p>Invited Speaker – Assoc. Prof. Dr. Yap Wing Fen</p> <p>Characterization of Magnetic Properties, Constituent Compounds, and Microstructure of Commercially Available AlNiCo Magnets and Analysis of the Potential of Local Materials for AlNiCo Magnet Production</p> <p>Invited Speaker – Assoc. Prof. Dr. Agus Yulianto</p> <p>Targeted Nano-Delivery of Ferulic Acid from Brewer's Spent Grain: A Sustainable Strategy for Skin Regeneration</p> <p>Invited Speaker – Dr. Paula Lorena Bucci</p>
11:30 – 12:30	Lunch (Bayburt Teacher's House)	

Onsite Sessions

Conference Hall (Faculty of Engineering, Bayburt University, Bayburt)

Onsite Session – 1 (in Turkish)	
Head of Session: Assoc. Prof. Dr. Mehmet Uyar	
13:15 – 14:45	<p>Fabrication of Porous TiO₂ Films on Ti-6Al-4V Implant Alloy via Anodization in Sulfuric Acid and NaCl Electrolytes</p> <p><i><u>Sukran Merve Tuzemen</u>[*], Taner Gozgoren</i></p>
	<p>Deposition of Scandium Oxide Film on Al7075 Alloy by Electrophoretic Coating Technique</p> <p><i><u>Esra Ibac</u>, Yusuf Burak Bozkurt[*]</i></p>
	<p>Numerical Analysis of Bifacial Photovoltaic Panel Performance in Erzurum Conditions</p> <p><i><u>Yuksel Hanbeyi</u>[*], Kenan Yakut, Hassen Ghaly, Muhammet Harun Osta</i></p>
	<p>Additive Manufacturing of Hip Joint Prosthesis Models via FDM: A Comparative Analysis of Material Type and Build Orientation</p> <p><i><u>Kubra Yildiz</u>[*], Senay Yetisir Er, Yesim Secer Kavasoglu, Burak Atik, Yusuf Burak Bozkurt, Halim Kovaci, Ayhan Celik</i></p>

	Norm Staff Planning in Automotive Sector with Artificial Neural Networks <i>Cilem Sinem Sendogan*</i> , <i>Mustafa Yilmaz</i>
	Vibration Analysis and Suspension Optimization of a Motorcycle-Rider System Incorporating Biomechanical Parameters <i>Ibrahim Enes Kaynar</i> , <i>Mehmet Uyar*</i>
	Design and Analysis of a Modular Vibration Test System for Rotating-Blade Propellers <i>Mehmet Uyar*</i>
14:45 – 15:00	Break
Onsite Session – 2 (in Turkish) Head of Session: Assoc. Prof. Dr. Mehmet Uyar	
15:00 – 16:30	Some New Hermite-Hadamard Type Inequalities for Function Whose Second Derivatives Are Generalized M -Convex <i>Mehtap Kubra Polat*</i> , <i>Cetin Yildiz</i>
	Isotherm Study for Lead Adsorption by a Porous Geopolymer <i>Ilker Acar*</i> , <i>Serkant Aykul</i>
	Phosphate Precipitation with Lime from Electropolishing Wastewater <i>Ilker Acar*</i> , <i>Mustafa Karakaya</i>
	Preparation and Characterization of AlNi-Gr/NW as Photothermal Material <i>Ezgi Salper*</i> , <i>Kader Dagci Kiransan</i>
	Biomass-Derived Photothermal Material for Solar Steam Generation <i>Seyda Sefa</i> , <i>Ezgi Topcu*</i>
	Utilization of Turkish Tea Waste for a Novel Evaporator Design <i>Serap Katranli</i> , <i>Ezgi Topcu*</i>
	Metal Chromite Spinel Structures: Synthesis and Comparative Characterization <i>Elif Ercarikci*</i> , <i>Emir Cepni</i>

Drawing Workshop (Faculty of Engineering, Bayburt University, Bayburt)

Onsite Session – 3 (in Turkish) Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin	
13:15 – 14:45	Chemical Vapor Detection with Porous Silicon-Based Sensors and Classification Using Deep Learning Algorithms <i>Tugba Seven</i> , <i>Omer Coban*</i>
	Supercapacitor Behavior of Nano-Wall Structured MoSe ₂ Thin Film <i>Halil Ibrahim Teber*</i> , <i>Merve Acar</i>
	Electronic Properties of Electrochemically Produced Silicon/Titanium Dioxide Nanocomposites <i>Elif Ercarikci</i> , <i>Emir Cepni*</i>

	Leveraging Text Mining and Deep Learning for Advanced Financial Market Prediction: A Multi-Modal Approach <i>Hulusi Mehmet Tanrikulu*</i>
	Shear Strength and Permeability Properties of Biopolymer Added Clay <i>Esrahan Tavlasoglu Yilmaz*, Zeynep Nese Kurt Albayrak</i>
	Evaluation of E-Waste as Raw Material in Polymer Piles (New Approach): Initial Results <i>Fatih Artuk, Zeynep Nese Kurt Albayrak, Betul Sumer*, Yasemin Pekdemir, Caglar Ozer, Bunyamin Donmez, Ahmet Sahin Zaimoglu</i>
	Investigation of Flow Times of Geopolymer Grouts <i>Hilal Nur Helvaci*, Fatih Artuk, Ahmet Sahin Zaimoglu</i>
14:45 – 15:00	Break

Computer Laboratory 1 (Faculty of Engineering, Bayburt University, Bayburt)

Onsite Session – 4 (in English) Head of Session: Assoc. Prof. Dr. Galip Yilmaz	
13:15 – 14:45	High-Performance Hexagonal WO ₃ as a Stable Anode for Next-Generation Aqueous Ammonium-Ion Batteries <i>Dilara Ozgenc, Melisa Ucan, Yildiray Topcu, Burak Tekin*</i>
	Investigation of Kinetic Characteristics of Thermal Degradation of Lemon Peel <i>Meltem Kizilca Coruh*</i>
	The Effect of Microwave and Conventional Frying Processes on Certain Quality Parameters of Olive Oil and Sunflower Oil <i>Betul Nazlan, Sebahat Oztekin*</i>
	Comprehensive Review on the Impact of Heavy Metals on Environmental Sustainability: The Role of Glutathione Peroxidase in Protecting Ecosystems and Human Health <i>Abdulkadir Ciltas*, Esraa Sayed Al Soughaier</i>
	Natural Convection Behaviour of Electronic Chip in an Enclosure with Different Widths <i>Erman Kadir Oztekin*, Ahmet Turkgoz</i>
	Effect of Fennel Seed Volatile Compounds on Three Bacterial Strains <i>Dalila Meziane Assami*, Karim Assami</i>
	Mechanical Characterization and Computational Modelling of Thermoplastic Polyurethane for Vascular Applications via 3D Printing <i>Galip Yilmaz*</i>

Online Sessions

Virtual Hall 1

Online Session – 1 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek	
13:15 – 14:45	Molecular Detection and Host-Dependent Sequence Variation of <i>Pospiviroid Exocortiscitri</i> (Citrus Exocortis Viroid (CEVd)) Isolates from Sweet Orange (<i>Citrus Sinensis</i>) Trees in Adana, Türkiye <u>Merve Kazak*</u> , <u>Nuket Onelge</u>
	Persistence of CCDaV and CYVCV on Filter Papers <u>Nida Yalcin*</u> , <u>Nuket Onelge</u>
	Genetic Diversity of Persimmon Grown in Azerbaijan <u>Natavan Bakhshaliyeva*</u>
	Development of a Loop-Mediated Isothermal Amplification (LAMP) Based Detection Kit Against a Gram-Negative Pathogen in Drinking Water <u>Doga Ilke Donmez*</u> , <u>Irem Abaci Bayraktar</u> , <u>Senay Vural Korkut</u> , <u>Esin Akcael</u>
	Effects of Fermented Dairy Products on Blood Lipid Profile and Body Weight: The Example of Kefir <u>Betul Enes*</u> , <u>Suleyman Gokmen</u>
	Glazing Application in Fish and Its Effect on Storage Quality <u>Suzan Keskin*</u> , <u>Sadettin Turhan</u>
	Enzyme Immobilization Techniques and Therapeutic Uses <u>Sevim Zeynep Bekler*</u> , <u>Mehmet Tokatli</u> , <u>Ozgul Yazar</u>
	Green Antimicrobial Strategies in Seafood Safety: Role of Lactic Acid Bacteria <u>Dilek Kahraman Yilmaz*</u>
14:45 – 15:00	Break
Online Session – 2 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek	
15:00 – 16:30	The Building Conjugate Spaces and Movement <u>Server Funda Ozturk Kerestecioglu</u> , <u>Elif Turkel Ay*</u>
	Sustainable Transportation Mode Bicycle: How Safe Is It? A Regional Analysis of Bicycle Traffic Accidents in Türkiye <u>Omer Kaya*</u> , <u>Nuriye Kabakus</u>
	A Numerical Study on the Bending Behavior of Rotating Unit Auxetic Tubulars <u>Suleyman Nazif Orhan</u> , <u>Kemal Solak*</u>
	Effect of Isolator Placement Level on the Seismic Response of RC Buildings with SCFP Bearings <u>Veysel Demirel*</u> , <u>Muhammet Yurdakul</u>
	Applications and Potential of Hyperspectral Satellite Imaging in Geological Studies

	<u>Hacer Bilgilioglu</u> *
	Some Bounds on Distance Based Topological Indices of Graph Products <u>Busra Ilayda Caliskan</u> , <u>Ezgi Aydemir</u> *
	Ricci Tensor in Galilean Space <u>Esma Demir Cetin</u> *, <u>Fatma Kiziltepe</u>
	Regression Models for Unit Interval Data: Performance and Residual Analysis of Beta and Simplex Regression Models <u>Tugba Baysal Ciftci</u> *, <u>Hatice Tul Kubra Akdur</u>
16:30 – 16:45	Break
Online Session – 3 (in Turkish) Head of Session: Assoc. Prof. Dr. Emre Tekce	
16:45 – 18:15	Strength and Performance Analysis of the Planetary Hub Reduction Gear of a 4x4 Special Purpose Military Vehicle for Various Driving Modes <u>Mehmet Murat Topac</u> *, <u>Kubra Polat</u> , <u>Murat Cavusoglu</u> , <u>Ersen Pesen</u>
	Optical Homogeneity Focused Pattern Applications and Characterization on Mold Surfaces in Automotive Lighting Field <u>Mete Yilmaz</u> *, <u>Cem Kahruman</u>
	The Effects of Punch Materials on the Burr Height for Blanking Operation <u>Ilyas Uygur</u> *, <u>Hasan Oktem</u> , <u>Gurkan Soy</u>
	Numerical Investigation of Air-Cooling and Liquid-Cooling Effects on the Li-Ion Battery Thermal Management System <u>Selma Akcay</u> *, <u>Sezgin Yasa</u>
	Comparative Assessment of Global and Isentropic Efficiency Effects on Heat Pump Performance <u>Kutbay Sezen</u> *
	Transition Metal-Based IrO ₂ Catalyst at Different Molar Ratios on Oxygen Evolution Reaction <u>Bulut Huner</u> *
	Comparison of Türkiye Energy Performance with Some Countries Using Data Envelopment Analysis <u>Metin Yilmaz</u> *
	Performance Comparison of Photovoltaic Systems Installed in Konya and Izmir Based on Energy and Exergy Analyses <u>Nihal Koca</u> *, <u>Ercan Izgi</u>
18:15 – 18:30	Break
Online Session – 4 (in Turkish) Head of Session: Assoc. Prof. Dr. Emre Tekce	
18:30 – 20:00	Two-Stage Comparative Analysis of Distance Courses in Higher Education

	<i>Seyma Aktuylu, <u>Yesim Ok</u>*</i>
	Student Tracking Platform: “EduPilot” <i><u>Nisa Dost</u>*, Yigit Akture, Emre Atlier Olca</i>
	Gauging Understanding and Interest Through Data for Education (GUIDE) <i><u>Fatih Emre Akarsu</u>*, Emre Atlier Olca</i>
	Adapting Knowledge Graphs for Large Language Model-Based Medical Record De-Identification <i><u>Abdul Moeed</u>, Emrah Inan*</i>
	Classification of User Comments on Online Websites Using Sentiment Analysis and Presenting the Model with Application Programming Interface <i>Hayrettin Dal, <u>Busra Takgil</u>*</i>
	Indoor Air Control System Based Internet of Things <i>Osman Mert Eksioglu, <u>Busra Takgil</u>*</i>
	Comparative Analysis of Artificial Intelligence Approaches in Speech-Based Emotion Recognition <i><u>Buket Isler</u>*</i>
	Pepper Leaf Disease Detection Using Deep Learning: A CNN-Based Approach <i><u>Rukiye Yakut</u>*, Muhammet Yasin Pak, Tarik Talan</i>
20:00 – 20:15	Break
Online Session – 5 (in Turkish) Head of Session: Assoc. Prof. Dr. Emre Tekce	
20:15 – 21:45	Minimizing Assembly Errors During Mass Production Process in Automotive Industry by Using Visual Processing Methods <i><u>Mehmet Yavuz</u>*, Esen Yildirim</i>
	A Clustering-Based Analysis of the Relationship Between Social Phenomenon Prioritization and Neighbor Selection Preferences <i><u>Duygu Selin Turan</u>*</i>
	A Modular Real-Time Framework for 2D Pose Tracking and Gesture Recognition via Mediapipe <i><u>Sabri Fevzi Dinc</u>*, Mustafa Ozden, Nurettin Gokhan Adar</i>
	IAB-Based Categorical Targeting on Turkish Websites in the Post-Third-Party Cookie Era: A Deep Learning–Supported Approach <i><u>Muhsin Kompas</u>*, Cunevt Kuru</i>
	Hybrid Deep Learning Model for Automatic Diagnosis of Kidney Diseases <i><u>Elif Nida Karakas</u>*, Cemal Akturk, Tarik Talan</i>
	Predicting Startup Success Using Ensemble Machine Learning Algorithms: A Comparative Evaluation with Balanced Data <i><u>Sule Caran</u>*, Adem Korkmaz</i>

	Scheduling Pressure Reducing Valves for Reducing Water-Leakage in Urban Networks Using K-Means Algorithm <i>Fatih Kutuk, Ali Durmus, Ercan Karakose, Rifat Kurban*</i>
	Development and Characterization of Spray-Dried Honey Powder Enriched with Medicinal and Aromatic Plants <i>Tugba Turken Akcay*, Beste Karadeniz, Seref Karadeniz</i>

Virtual Hall 2

Online Session – 6 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp	
13:15 – 14:45	Variation, Biological Functions, and Stress Adaptation in Potato (<i>Solanum Tuberosum</i> L.) <i>Amina Belguendouz*, Benamar Benmahioul</i>
	Effect of Carbon Source on the Development of Vitroplants and Microtubers of Potato (<i>Solanum Tuberosum</i> L.) <i>Amina Belguendouz*, Benamar Benmahioul</i>
	Study of The Genetic Diversity of Selected Vicia Accessions Through Morphological and Eco-Geographical Descriptors <i>Bougrine Hocine*, Hadjout Saleh, Belkendil Abdeldjalil, Zouidi Mohamed, Zeghmar Amer, Mebarkia Amar</i>
	Enhancing the Nutritive Quality of Barley Through Beneficial Microorganisms <i>Yousra Debbah*, Mohamed Bencherchali, Saida Messgou-Moumen</i>
	Biostimulant Effect of Moringa Oleifera Extract in Soilless Tomato Cultivation Using Saline Non-Conventional Water <i>Nedjouda Zemmouri*, Mohammed Abbad</i>
	Optimizing Agricultural Practices: Analysis of Bat Guano Use to Improve Vegetable Crop Production in the Tlemcen Region <i>Nesrine Meriem Larabi*, Abdessalem Manaa</i>
	Toward Sustainable Forest Health: Evaluating Natural Biological Control of Aphids on <i>Pinus Halepensis</i> in Northeastern Algeria <i>Leila Bourouba*, Malik Laamari</i>
	Effect of Sucrose and Salicylic Acid on Tomato Production: Case Study of the Hayet Variety <i>Kawther Bourezzane*, Sabah Razi, Berbache Mohamed Rami</i>
14:45 – 15:00	Break
Online Session – 7 (in English) Head of Session: Dr. Nurhafizah Hasim	
15:00 – 16:30	Adsorption Dynamics of Dye onto Waste Newspaper Activated Carbon

	<u>Muhammad Abbas Ahmad Zaini</u> *
	Cationic Dye Removal by Magnetic Biobased Adsorbents: An Economical and Sustainable Approach <u>Yasser Boumezough</u> *, <u>Sihem Arris</u>
	Stabilization of Urban Sewage Sludge Using Waste Carbide Lime from Industrial Processes <u>Riad Ayeche</u> *, <u>Abdelaziz Messis</u> , <u>Ali Yacine Sahnoun</u> , <u>Ahmed Adjeblie</u>
	NO _x Emission Prediction in Diesel Engines Running on Alternative Plastic-Based Fuels Using the Levenberg-Marquardt Algorithm <u>Mohammad Nor Khasbi Jarkoni</u> , <u>Wan Nurdiyana Wan Mansor</u> *, <u>Norazlina Abdul Nasir</u> , <u>How-Ran Chao</u>
	Extraction Study of Lead and Chromium Content in Waste Sludge from the Paint Industry <u>Aicha Metali</u> *, <u>Mounir Ziati</u>
	Biosynthesis of Silver Nanoparticles Using <i>Salvia Rosmarinus</i> Extract and Optimization of Their Photocatalytic Efficiency for Vancomycin Degradation <u>Anes Ghazi</u> *, <u>Khedidja Benouis</u> , <u>Mohammed El Amin Said</u> , <u>Sid Ahmed El Khalil</u> , <u>Ahed Messaoud</u> , <u>Mohamed Bouaziz</u>
	Influence of Ultrasound Power and Temperature on the Extraction Efficiency of Polyphenols from a Scrophulariaceae Species <u>Monsef Merdjemak</u> *, <u>Hadjer Mabrouki</u> , <u>Rosa Haouche</u> , <u>Djamal Eddine Akretche</u>
	An Example of Determination of Heavy Metal Removal Capacity of Agricultural Wastes by Design of Experiments (DoE) <u>Ezgi Kinali</u> *, <u>Deniz Bingol</u>
16:30 – 16:45	Break
Online Session – 8 (in English) Head of Session: Dr. Nurhafizah Hasim	
16:45 – 18:15	Performance Assessment and Weight Optimization of Isolated SSTRS Structures Using Rao-1 <u>Muhammet Yurdakul</u> *
	Fuzzy Logic Applications in Advanced Seismic Collapse Prediction of Steel Moment Frames Accounting for Sources of Uncertainty <u>Foad Karimi Ghaleh Jough</u> *, <u>Sasan Babaei</u>
	Machine Learning Techniques for Annual Water Consumption Prediction: North Cyprus Water Authority Case Study <u>Foad Karimi Ghaleh Jough</u> *, <u>Mohammadreza Gholami</u>
	Design of an Active Seismic Vibration Control System for Building Structures <u>Abdelaziz Ghezal</u> *, <u>Bachir Nail</u> , <u>Salaheddine Harzallah</u>

	Analysis of the Mechanical Behaviour of Dunes Sand Under Triaxial Test <i><u>Yasmine Mohamed Bouteben</u>[*], Leyla Bouaricha</i>
	Earthquake Peak Ground Velocity Prediction at Soft Soil Sites: Empirical and Machine Learning Approaches <i><u>Issam Aouari</u>[*], Baizid Benahmed, Aicha Rouabeh</i>
	Improving the Structural Integrity of Virgin Cork Concrete with Limestone Addition <i><u>Samah Hariz</u>[*], Fouad Ghomari, Brahim Touil</i>
	Estimation of Suspended Sediment Concentration Using Regression Analysis: A Case Study from the Patapsco River Basin, USA <i>Mahir Kumantas, <u>Betul Mete</u>[*], Sinan Nacar, Adem Bayram</i>
18:15 – 18:30	Break
Online Session – 9 (in English) Head of Session: Dr. Nurhafizah Hasim	
18:30 – 20:00	Effect of a Detached Splitter Plate on Wake Region of a Circular Cylinder <i><u>Ilker Goktepli</u>[*]</i>
	Eco-Friendly Roads: Harnessing Vehicle Kinetic Energy for Smart Infrastructure <i><u>Touqeer Aslam</u>[*], Muhammad Shakil, Hafiz Muhammad Danish Ansari, Muhammad Faryad, Usman Shoukat, Uzair Ahmad, Shoukat Ali Mugheri</i>
	Corrugation Geometry's Effects on Heat Transmission and Pipe Flow Characteristics <i><u>Praveena Vedagiri</u>[*], <u>Devanshi Sharma</u>, Kiruthika Balakumar</i>
	Thermal and Structural Evaluation of B ₄ C-Doped Hitec Salt Nanocomposites for High-Temperature Energy Applications <i><u>Ezgi Gurgenc</u>[*], Hakan F. Oztog</i>
	Thermal Characterization of hBN-Doped Solar Salt Nanocomposites for Enhanced Energy Storage Applications <i><u>Ezgi Gurgenc</u>[*], Hakan F. Oztog</i>
	Design and Simulation of Exhaust Muffler for KTM 390 <i><u>Pranay Bhargava</u>, Vijay Srikrishnan, Praveena Vedagiri[*]</i>
	Remaining Useful Life Estimation to Prevent Failure in Wind Turbine <i><u>Riadh Euldji</u>[*], Imane Euldji, Sofiane Khechafi, Rafik Euldji</i>
	Remaining Useful Life Estimation Based on the Extreme Learning Machine and the Hammerstein-Wiener Model <i><u>Riadh Euldji</u>[*], Imane Euldji, Rafik Euldji, Sofiane Khechafi</i>
20:00 – 20:15	Break
Online Session – 10 (in English) Head of Session: Dr. Nurhafizah Hasim	

20:15 – 21:45	Performance Evaluation of MXene-Based Dipole Antennas for IoT and Wearable Applications <i>Musa Bute*</i> , <i>Aykut Tan</i>
	Comparison of Measurement Approaches for Propagation Constants in Non-Reciprocal and Asymmetrically Reflective Networks <i>Musa Bute*</i>
	Fuzzy Logic Enhanced Vector Control for Induction Motor Speed Monitoring <i>Hatem Bellahsene Noura Rezika*</i> , <i>Torchiat Ghilas</i>
	Calculation of Structural, Electronic, and Optical Properties of Double Perovskite Ba ₂ FeSiO ₆ <i>Saadiya Benatmane*</i>
	Ab-Initio Study of Substitution at Pd Site on Full Heusler Alloys <i>Saadiya Benatmane*</i>
	Meta-Heuristic Optimization Strategies for Efficient Energy Management in a Hybrid Storage System <i>Merabet Abdessalam*</i> , <i>Belli Zoubida</i> , <i>Bouzahar Mohamed Tayeb</i> , <i>Hedouache Ibrahim</i>
	Student Performance Classification: A Comparative Study of Machine Learning Algorithms <i>Ruhsen Aldemir Engin</i> , <i>Mustafa Alptekin Engin*</i>
	Numerical and Dimensional Analysis of Sea Sand Particles Using Microscopic Image Processing Techniques <i>Mustafa Alptekin Engin*</i> , <i>Murat Camuzcuoglu</i>

Saturday, June 21, 2025

Online Sessions

Virtual Hall 1

Online Session – 11 (in English) Head of Session: Dr. Nurhafizah Hasim	
09:00 – 10:30	Evaluation of Indoor Air Quality and Sick Building Syndrome Symptoms in a Consultant Office Using Generalized Linear Models <i>Amalina Abu Mansor</i> , <i>Samsuri Abdullah*</i> , <i>Aimi Nursyahirah Ahmad</i>
	Neural Network Modeling of Ozone Pollution in Cheras, Malaysia Using Multi-Layer Perceptron (MLP) <i>Aimi Nursyahirah Ahmad</i> , <i>Samsuri Abdullah*</i> , <i>Amalina Abu Mansor</i>
	Integration of Chemical Coagulation and Electrocoagulation for Oily Wastewater Treatment <i>Noryushaina Adlina Yusmaini*</i> , <i>Nur Diyana Suzaimi</i> , <i>Sofiah Hamzah</i>

	Activity of Ce and Ag Co-Doped ZnO Nanorods in Enhancing Photocatalytic Degradation of Paracetamol and Metronidazole Antibiotics in Wastewater Under Solar Light <i>Issam Nessaibia[*], Tayeb Bouarroudj</i>
	Comparative Study of Chlorination and Activated Carbon Adsorption for Ammonium Removal in Drinking Water <i>Sonia Cherif[*], Hynda Rezzaz Yazid, Narimene Saadi, Zahra Sadaoui</i>
	Geopolymers Enriched with Titanium: Innovative Solutions for Wastewater Treatment <i>Chaima Assamadi[*], Nourdine El Binna, Marouane El Abiad, Mohamed El Masloumi, Abdelaziz El Abiad, Hakima Aouad</i>
	Application of a New Semiconductor Based on a Clay Modified in Photocatalytic Removal of a Pharmaceutical Pollutant Under Visible Light Irradiation <i>Bahia Benalioua[*], Meriem Mansour, Imane Benyamina, Assia Benhouria, Fatiha Bessaha, Bentouami Abdelhadi</i>
	Reverse Osmosis for Leachate Treatment in Algeria: Performance and Challenges <i>Ahlam Atik Hamoud[*], Fatima Boumechhour, Mouna Chala, Yacine Kerchich</i>
10:30 – 10:45	Break
Online Session – 12 (in English) Head of Session: Dr. Nurhafizah Hasim	
10:45 – 12:15	Developing Advanced Clay Materials for Water Quality Improvement <i>Fadhila Bouhella[*], Bouhadjar Boukoussa, Hadjer Addou, Abdelkader Elaziouti, Nadjia Belmehdi</i>
	Producing Biochar from Lignocellulosic Biomass: Expanding Its Applications <i>Younes Beddach[*], Imad Rabichi, Fatima Ezzahra Yaacoubi, Zaina Izghri, Jalila Hanyny, Abdelaziz Bacaoui, Abdelaziz Ounas, Abdelrani Yaacoubi, Karima Ennaciri</i>
	Synthesis, Characterization, Crystal Structure, Anti-Diabetic Activity, and Molecular Docking of New Triazolobenzodiazepines <i>Marouane Ait Lahcen[*], Samir Hmaimou, Mohamed Adardour, Ismail Hdoufane, Joel T. Mague, Abdesselam Baouid</i>
	Synthesis, Characterization, Crystal Structure, and Theoretical Calculations of New Thiazine-1,5-Benzodiazepine via Cycloaddition Reaction [3+3] <i>Samir Hmaimou[*], Marouane Ait Lahcen, Mohamed Adardour, Mohamed Maatallah, Abdesselam Baouid</i>
	Adsorption of Imidazolium Ionic Liquid in Homoionic Montmorillonites: A Comparative Study <i>Abdeldjabbar Belbel[*], Fatiha Babaghayou</i>
	Innovative QSAR Strategies for Identifying Effective EBOV-GP Inhibitors

	<p><u>Nouhaila Ait Lahcen</u>[*], Wissal Liman, Mehdi Oubahmane, Ismail Hdoufane, Mohamed Maatallah, Driss Cherqaoui</p>
	<p>Fragment-Based Drug Design of Novel NS5B Non-Nucleoside Inhibitors for Hepatitis C Virus</p> <p><u>Wissal Liman</u>[*], Nouhaila Ait Lahcen, Mehdi Oubahmane, Ismail Hdoufane, Driss Cherqaoui, Rachid Daoud, Achraf El Allali</p>
	<p>Synthesis and Biological Evaluation of Hesperetin Heterocyclic Derivatives</p> <p><u>Mohamed Nadjib Rebizi</u>[*], Nadji Belkheiri</p>
12:15 – 12:30	Break
<p>Online Session – 13 (in English)</p> <p>Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin</p>	
12:30 – 14:00	<p>Antioxidative and Anti-Inflammatory Effects of <i>Inula Viscosa</i> (L). Aiton Leaves Extract in Formaldehyde-Induced Arthritis Model</p> <p><u>Sara Ouari</u>[*], Nadia Benzidane, Noureddine Brihi, Mohamed Sofiane Merakeb, Lekhmici Arrar</p>
	<p>Nickel Sulfate Induced Hepatotoxicity Mediated Through ROS Generation and Impairing the Antioxidant Defense in Albino Rats</p> <p><u>Mohamed Khiari</u>[*], Zine Kechrid</p>
	<p>Design, Hemisynthesis, Characterization, and Computational Evaluation of Novel Totarol-1,2,3-Triazole Derivatives as Anticancer Agents</p> <p>Ayoub Boualli[*], Oussama Taouala, Yassine Laamari, Abdoullah Bimoussa, My Youssef Ait Itto, Hamid Morjani, <u>Aziz Auhmani</u></p>
	<p>Physico-Chemical Characterization of Zebda-Type Farm Butter from Mascara, a Region in Western Algeria</p> <p><u>Djamila Amamra</u>[*], Fadela Chougrani, Mansouria Belhocine, Abderrahim Cheriguene, Abdelkader El Amine Dahou</p>
	<p>Transformative Innovation in Cancer Biotherapies Based on Medicinal Plants and Gold Nanoparticles</p> <p><u>Nawal Aitoukheddi</u>[*], Abdelhamid Khabtane, Abdelhalim Khenchouche</p>
	<p>Antioxidant Potential of Ethanolic Extract of <i>Anethum Graveolens</i> L.: Insights from Lipid Peroxidation and Membrane Stability Tests</p> <p><u>Nour El Houda Belabas</u>[*], Nadjat Azzi, Younes Douffa, Amel Barkat, Haifaa Laroui, Thoraya Guemaz, Fatima Zerargui, Karima Saffidine, Abderrahmane Baghiani</p>
	<p>Study of the Antibacterial Activity of Lactobacilli in Relation to Uropathogens</p> <p><u>Djamila Amamra</u>[*], Fadela Chougrani, Mansouria Belhocine, Abderrahim Cheriguene, Abdelkader El Amine Dahou</p>
	<p>Antibacterial Activity of Immature Date Fruits</p> <p><u>Amel Barkat</u>[*], Hayat Trabsa, Nadjat Azzi, Nour El-Houda Belabas, Farida</p>

	<i>Belkhiri, Abderahmane Baghiani, Abdelnacer Agli</i>
14:00 – 14:15	Break
<p>Online Session – 14 (in English)</p> <p>Head of Session: Dr. Mohd Hafizuddin Ab Ghani</p>	
14:15 – 15:45	<p>An Adaptive Neuro-Fuzzy Inference System Approach for Predicting the Solubility of an Antituberculosis Drug (Isoniazid) in Ionic Liquids</p> <p><i>Imane Eulldji*</i>, <i>Widad Benmouloud</i>, <i>Rafik Eulldji</i>, <i>Meriem Ouaisa</i>, <i>Cherif Si-Moussa</i>, <i>Othmane Benkortbi</i></p>
	<p>Atrazine Elimination from Water Using Biodegradable Surfactant</p> <p><i>Nor El Houda Aouedj*</i>, <i>Houaria Benkhedja</i>, <i>Boumedienne Haddou</i>, <i>Halima Ghouas</i></p>
	<p>Modeling and Scale-Up of a Continuous Ibuprofen Manufacturing Process Using Plug Flow Reactors</p> <p><i>Malika Ouagued*</i>, <i>Lamia Seddik</i></p>
	<p>A Tunicate Swarm Algorithm-Support Vector Regression Approach for Predicting Critical Micelle Concentration of Surfactants in Aquo-Organic Solvent Media</p> <p><i>Nada Boukelkal*</i>, <i>Soufiane Rahal</i>, <i>Mabrouk Hamadache</i>, <i>Redha Rebhi</i>, <i>Widad Benmouloud</i>, <i>Imane Eulldji</i></p>
	<p>Modelling CO₂ Solubility in Ionic Liquids Using a Sine Cosine Algorithm-Optimized Support Vector Machine</p> <p><i>Widad Benmouloud*</i>, <i>Imane Eulldji</i>, <i>Hayet Abedellatif</i>, <i>Nada Boukelkal</i>, <i>Cherif Si-Moussa</i>, <i>Othmane Benkortbi</i></p>
	<p>Carbon Quantum Dots (CQDs) Derived from Rice Husk: Innovations and Applications</p> <p><i>Mohd Hafizuddin Ab Ghani*</i>, <i>Siti Zulaika Razali</i>, <i>Siti Hajar Othman</i>, <i>Umer Rashid</i>, <i>Chawalit Ngamcharussrivichai</i>, <i>Johari Abdu Rahim</i></p>
	<p>Economic Analysis and Optimization of Organic Rankine Cycle in Marine Diesel Engine Using Bioethanol as Working Fluid</p> <p><i>Zalina Mat Nawi*</i>, <i>Siti Kartom Kamarudin</i>, <i>Siti Rozaimah Sheikh Abdullah</i></p>
	<p>The Effect of Hydrophobic Deep Eutectic Solvents on Lipid Recovery from Rosehip Waste</p> <p><i>Abdulkadir Keskin</i>, <i>Zekiye Goksel</i>, <i>Seda Kayahan</i>, <i>Yasin Ozdemir</i>, <i>Betul Akhoroz</i>, <i>Gulin Amasya</i>, <i>Zerrin Sezgin Bayindir</i>, <i>Serpil Takac</i>, <i>Ayşe Ezgi Unlu*</i></p>
15:45 – 16:00	Break
<p>Online Session – 15 (in English)</p> <p>Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin</p>	
16:00 – 17:30	<p>Optimization of Air Conditioning Technology Using Hydrocarbons as Working Fluids</p> <p><i>Youssef Maalem*</i>, <i>Cherif Boulebbina</i>, <i>Hakim Madani</i></p>

	Circular Economy in Waste Management: Municipal Waste as a Source for Waste-to-Energy Solutions and Biomass Densification <i><u>Sowndharya Ganesan</u>, Praveena Vedagiri*</i>
	Structural Design and Performance Assessment of a Livestock Trailer with Hydraulic Lifting Mechanism <i><u>Hilmi Saygin Sucuoglu</u>*</i>
	Effect of Roof Pitch Angle on Passive Ventilation Performance in Low-Rise Buildings <i><u>Burak Aktepe</u>, Hacimurat Demir*</i>
	Thermo-Mechanical Bending Response of Functional Grade Imperfect Plates Using a Higher-Order Theory <i><u>Slimane Merdaci</u>*, Adda Hadj Mostefa</i>
	Evaluation of the Novel Orifice Chamber Shape Design of a Hydrostatic Thrust Bearing Under Various Operating Conditions <i><u>Faiza Ghezali</u>*, Tayeb Yahiaoui</i>
	Design and Hydrodynamic Evaluation of an Innovative Marine Propeller <i><u>Faiza Ghezali</u>*, Amina Boudlal, Tayeb Yahiaoui</i>
	Experimental Investigation of Zircon Paint Drying of a Sand Mould in an Industrial Microwave Furnace <i><u>Alper Kelesoglu</u>*</i>
17:30 – 17:45	Break
Online Session – 16 (in English) Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin	
17:45 – 19:15	Artificial Intelligence Supported Energy Performance Certificate (EPC) Analysis and Recommendation System <i><u>Tolga Tanribuyrugu</u>*, Emre Atlier Olca</i>
	A Deep Learning Model Using Data Augmentation for Tomato Disease Detection <i><u>Mansouria Sekkal</u>*</i>
	Cardiovascular Disease Prediction Model Using Random Forest Algorithm on a Hybrid Dataset <i><u>Seda Demir</u>*, Harun Selvitopi</i>
	Design and Simulation of a Frequency-Agile Circular Patch Antenna Using PIN Diodes <i><u>Khouloud Mohammed Belhadj</u>*, Souheyla Ferouani, Djalal Ziani Kerarti</i>
	Physical Insights of Latent Heat Storage Using Phase Change Materials <i><u>Mohamed Teggat</u>*</i>
	Obstacle Avoidance Path Planning for Industrial Robotic Manipulators Using Improved RRT with Bezier and Linear Interpolations

	<i><u>Osama Altalmas</u></i> [*] , <i>Beste Bahceci</i>
	Inverse Kinematics for Robotic Manipulators Using Deep Neural Networks <i><u>Saloua Ouahrhent</u></i> [*] , <i>Nadjiba Terki, Soraya Zehani</i>
	MCDM-Based Human-Robot Social Distancing Interaction (MCDM-HRSDI) for Real-Time Monitoring and Detection <i><u>Alaa Hameed Majmaee</u></i> [*] , <i>Beste Bahceci</i>
19:15 – 19:30	Break
Online Session – 17 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin	
19:30 – 21:00	Core-Shell Plasmonic Nanoparticles: Properties, Synthesis, and Applications for Cancer Diagnosis and Therapy <i><u>Adil Bouhadiche</u></i> [*]
	Microbiological and Electrochemical Study of the Corrosive Effect of a Bacterial Consortium (SRB, TRB, IB, and APB) from an Algerian Oilfield <i><u>Salima Kebbouche-Gana</u></i> [*] , <i>Gana Mohamed Lamine, Derguine Louisa, Lenchi Nesslerine, Khemili-Talbi Souad, Siham Akmoussi-Toumi, Yassmina Angar, Afef Najjari</i>
	S42 Schwann Cell Spheroids: A Potential Cellular Therapy for Peripheral Nerve Injuries <i><u>Damla Cetin Altindal</u></i> [*]
	Adsorption Study of the Congo Red Dye on Sewage Sludge Biomass <i><u>Ali Yacine Sahnoun</u></i> [*] , <i>Riad Ayeche</i>
	Comparative Analysis of Deep Learning-Improved Traditional PET Image Reconstruction Methods <i><u>Asma Benyelles</u></i> [*] , <i>Amel Korti</i>
	Characterization of a Decellularized Extracellular Matrix of Bovine Pericardium for Cardiac Tissue Engineering <i><u>Aysenur Atak</u></i> , <i>Aysen Gungor, Ayca Bal Ozturk, Banu Mansuroglu, Yuksel Cetin</i> [*]
	Bio-Inspired Antimicrobial Approaches for Topical Wound Care in the Era of Resistance <i><u>Andrea Osmokrovic</u></i> [*] , <i>Tanja Krunic</i>
	Phospholipid Profile, Emulsion Properties, and Quality Parameters of Commercial Soy Lecithin <i><u>Necattin Cihat Icyer</u></i> [*]

Sunday, June 22, 2025

Online Sessions

Virtual Hall 1

Online Session – 18 (in English) Head of Session: Dr. Intan Helina Hasan	
09:00 – 10:30	Schauder Fixed Point Approach to Controllability of Neutral Impulsive Functional Evolution Equations <i><u>Fatma Berrighi</u>[*], Imene Medjadj</i>
	A Quasistatic Model for Nonhomogeneous Viscoelastic Antiplane Shear with Adhesion <i><u>Laldja Benziane</u>[*], Nemira Lebri</i>
	Rates of Convergence in the Strong Law of Large Numbers of Weighted Averages of Nonidentically Distributed Random Variables <i><u>Benyahia Wahiba</u>[*], Bensaber Fatna</i>
	A Decay Result of a Boundary Problem with an Integral Condition <i><u>Farida Belhannache</u>[*], Salim Messaoudi</i>
	A Descending Path Approach for Optimizing the Regularization Parameter in Support Vector Machine Classification <i><u>Zerkak Nesma</u>[*], Brahmi Belkacem, Bounceur Ahcene</i>
	Numerical Computation of the First-Order Polarization for Irregular Object Inclusion <i><u>Suzarina Ahmed Sukri</u>[*], Yeak Su Hoe, Taufiq Khairi Ahmad Khairuddin</i>
	Diffusion Rate of Ligand and Signal Towards Invadopodia Formation with Level Set Method Approach <i><u>Noorehan Yaacob</u>[*], Hanis Nasir, Sharidan Shafie, Mohd Ariff Admon</i>
	Non-Negativity and Boundedness in a Compartmental Model of Unemployment Dynamics <i><u>Haizatul Arishya</u>, Noorehan Yaacob, <u>Hanis Nasir</u>[*]</i>
10:30 – 10:45	Break
Online Session – 19 (in English) Head of Session: Dr. Intan Helina Hasan	
10:45 – 12:15	Aspergillus Section Flavi in Peanut Manufacturing Chain in Morocco: Prevalence, Chemotype Diversity, and Toxigenicity <i><u>Narjisse Mokhtari</u>[*], Mohamed Chabbi, Abderrahman Bouassab, Oussama Chauiyakh</i>
	Prediction of Cheeseability Indicators Based on Breeding Practices in the Mostaganem Dairy Region, Algeria <i><u>Hafida Tahlaiti</u>[*], Abdelkader El Amine Dahou, Mostefa Medjahed, Fatima Seddar Yagoub, Khadidja Tabet, Lahcen Doubbi Bounoua, Amin Bekihal, Fatiha Missoun</i>
	Standardization of the Functional Elements of Milk for the Industrial Production of a Soft Cheese “J’ben of Sfisifa” Typical of the Steppe Regions of Western

	Algeria <i>Abdelkader El Amine Dahou*</i> , <i>Hafida Tahlaiti</i> , <i>Fatiha Missoun</i> , <i>Fadela Chougrani</i> , <i>Abderrahim Cheriguene</i> , <i>Zakaria Meskini</i> , <i>Lahcen Doubbi Bounoua</i> , <i>Amin Bekihal</i>
	Phytochemical Profiling and Nutritional Assessment of <i>Dittrichia Viscosa</i> Leaves from Northern Morocco: Insights into Antioxidant Potential and Nutrient Content <i>Bahia Abdelfattah*</i> , <i>Amena Mrabet</i> , <i>Ayoub Simou</i> , <i>Mohamed Khaddor</i>
	Root and Tuber Crops: Key Sources of Functional Foods <i>Wassim Boufadene*</i> , <i>Asma Boudria-Larachi</i> , <i>Nawel Adjeroud-Abdellatif</i>
	The Histological Detection of Bone Particles in Meat Products <i>Saliha Lakehal*</i> , <i>Salima Lakehal</i> , <i>Omar Bennoune</i>
	Removal of a Cationic Dye Using a Commercial Activated Carbon Modified with Iron Nanoparticles <i>Asmaa Ouali*</i> , <i>Salima Attouti</i> , <i>Nadia Douara</i>
	Formulation of Moringa-Based Dietary Supplements <i>Meryem Allioua*</i> , <i>Waffa Bouali</i>
12:15 – 12:30	Break
Online Session – 20 (in English) Head of Session: Dr. Nurhafizah Hasim	
12:30 – 14:00	Bibliometric Analysis of Antileishmanial Research Using in-Silico Approaches: Morocco's Position in the Scientific World <i>Mohammed-Yassine Takzima*</i> , <i>Mohamed Echchakery</i> , <i>Mohammed Hafidi</i> , <i>Loubna El Fels</i>
	Evaluation of the Technological Capabilities of Lactobacilli Isolated from Raw Cow's Milk <i>Djamila Amamra*</i> , <i>Fadela Chougrani</i> , <i>Mansouria Belhocine</i> , <i>Abderrahim Cheriguene</i> , <i>Abdelkader El Amine Dahou</i>
	Biodiversity and Enzymatic Potential of Moderately Halophilic Bacteria from Extreme Environment in Relizane, Algeria <i>Amina Meglali*</i> , <i>Lotfi Ghellai</i>
	Evaluation of Phytochemical Profile and Antioxidant Properties of Hydro-Methanolic Extracts of <i>Atriplex Halimus</i> L. <i>Waffa Abdelmoumene*</i> , <i>Nabila Belyagoubi-Benhammou</i> , <i>Larbi Belyagoubi</i>
	Polyphenol Determination and Antioxidant Evaluation of a Soxhlet Methanolic Extract of a Species of the Asteraceae Family from the Ain Temouchent Region of Algeria <i>Younes Ikhlas*</i> , <i>Belkacem Nacera</i>
	Exploration of the Chemical Composition of <i>Calamintha Menthifolia</i> Host Essential Oil

	<p><u>Rayane Bougueroua</u>[*], Mohamed Sabri Khelfaoui</p> <p>Targeting Mitochondrial Oxidative Stress: Liposomal Quercetin as a Potent Modulator of Cellular Defense Mechanisms</p> <p><u>Fatma Zahra Hab</u>[*], Anfel Benmanseur, Rechda Amel Tachour, Rania Derguine, Bachra Khettal, Abdelmalek Rezgui, Widad Sobhi</p> <p>Potential Antibacterial Activity of Ethanolic Extracts from Olive (<i>Olea Europaea</i>) Leaves Against <i>Pseudomonas Aeruginosa</i></p> <p><u>Kheira Hiba Benghaffor</u>[*], Hadri Zouheyr, Houria Chaalal</p>
14:00 – 14:15	Break
<p>Online Session – 21 (in English)</p> <p>Head of Session: Asst. Prof. Dr. Sebahat Oztekin</p>	
14:15 – 15:45	<p>Anti-Inflammatory Activity of <i>Zizyphus Sp</i> Methanolic Extract on Carrageenan Induced Mice Paw Edema</p> <p><u>Salma Berri</u>[*], Nesrine Kahia, Nacer Amraoui, Nadia Benzidane, Lekhmici Arrar</p> <p>Characterization and Screening of Potential Probiotic Lactic Acid Bacteria Properties Isolated from Various Local Food Products</p> <p><u>Rebiai Amina</u>[*], Meghoufel Naima Leila, Nemmiche Said</p> <p>Antioxidant and Anti-Inflammatory Activities of Algerian <i>Urtica Dioica</i></p> <p><u>Nacer Amraoui</u>[*], Nassrine Kahia, Salma Berri, Zineddine Boutefaha, Noureddine Belattar, Lekhmici Arrar</p> <p>In Vitro Hemostatic Potential of <i>Teucrium Polium</i> Aqueous Extract</p> <p><u>Hezil Djamila</u>[*], Benamrouche Samira, Benseghir Hassan, Rouane Asma, Bessas Amina, Zaidi Sara, Benammar Leyla, Boudiab Imane</p> <p>Frequency and Predictors of Thyroid Dysfunction Among Type 2 Diabetes Patients in Algeria</p> <p><u>Nassima Toumi-Halaimia</u>[*], Khalida Abla, Sawsene Ziani, Nouha Abir Derriche, Chayma Touati, Aya Meriem, Aya Guedri, Djamel Menasria</p> <p>Immunomodulatory Effect of Methanolic Extract of Two Medicinal Plants (<i>Juniperus Sp</i> and <i>Laurus Sp</i>) and Their Mixture</p> <p><u>Nassrine Kahia</u>[*], Salma Berri, Nacer Amraoui, Lekhmici Arrar</p> <p>Evaluation of the Effectiveness of Essential Oils Against Multidrug-Resistant Bacteria Carried by Cockroaches</p> <p><u>Wafa Ben Djaballah</u>[*], Hayat Trabsa, Widad Bouguenoun</p> <p>Bioprospecting of Halophiles for Industrial Enzymes from an Extreme Environment in Chlef, Algeria</p> <p><u>Amina Meglali</u>[*], Lotfi Ghellai</p>
15:45 – 16:00	Break
Online Session – 22 (in English)	

Head of Session: Asst. Prof. Dr. Musa Bute	
16:00 – 17:30	Study of the Doping Effect of Antimony on the Structural Properties of Tin Oxide Films <i><u>Abdelhak Belkadi</u>[*], Tarek Guerfi, Hakim Belkhalf, Billel Cheniti</i>
	Bridging the Gap in Material Discovery: Crystal Structure Prediction and Electronic Properties of BaTa ₃ N ₃ Using Evolutionary Algorithms and DFT <i><u>Mohamed Issam Ziane</u>[*], Moufidi Hadjab, Hamza Bennacer, Amar Khelfane</i>
	A Computational Study of the Elastic and Thermodynamic Properties of Mg ₃ ZnO ₄ with a Caswellsilverite-Like Structure <i><u>Moufidi Hadjab</u>[*], Mohamed Issam Ziane, Hamza Bennacer, Olga Guskova</i>
	Density Functional Theory Insights on the Future Prospects of Double Perovskites for High-Energy Applications <i><u>Rekia Larbi</u>[*]</i>
	Thermal, Electrical, and Surface Properties of Zinc-Strontium-Lithium-Chitosan Phosphate Glass Doped with Zinc Oxide Nanoparticles <i><u>Nur Aniesha Fitrie Binti Roseli</u>, Nurhafizah Binti Hasim[*], Nur Hidayah Binti Ahmad, Norshahirah Binti Mohamad Saidi</i>
	Physical, Structural, and Mechanical Properties of Chitosan-Zinc-Strontium-Lithium Phosphate Glass Embedded with Zinc Oxide Nanoparticles <i><u>Ku Nabil Afiq Bin Ku Nor Azli</u>, Nurhafizah Binti Hasim[*], Nur Hidayah Binti Ahmad, Norshahirah Binti Mohamad Saidi</i>
	Influence of Trap Levels and Their Positions in a β -Ga ₂ O ₃ /4H-SiC Solar-Blind Schottky Barrier Ultraviolet Photodetector <i><u>Rima Cherroun</u>[*], Afak Meftah, Lobna Messeddek, Imene Saoula</i>
	Influence of CuO Doping on the Structural and Electrical Properties of Zinc-Strontium-Lithium Phosphate Glasses <i><u>Nurhafizah Hasim</u>[*]</i>
17:30 – 17:45	Break
Online Session – 23 (in English) Head of Session: Dr. Nurhafizah Hasim	
17:45 – 19:15	Experimental and Theoretical Comparison Study of Pure and Doped SnO ₂ Thin Films <i><u>Imene Saoula</u>[*], Abdelouahab Ouahab, Chahinez Siad, Nassiba Allag, Zineb Amraoui, Rima Cherroun</i>
	Ab Initio Analysis of Physical, Mechanical, Thermal, and Transport Behavior of New Half-Heusler Semiconductor CaCdGe for Thermoelectric Applications <i><u>Aya Righi</u>[*], Fatima Bendahma, Abbes Labdelli, Khedidja Mechehoud, Mohamed Mana, Bilel Achir</i>
	Thermal, Structural, and Optical Properties of Er ⁺³ Doped TeO ₂ -K ₂ O-Na ₂ O-Nb ₂ O ₅

	Glass <i><u>Rekia Belhoucif</u></i> *
	Judd–Ofelt Analysis and Radiative Properties of the Er ⁺³ Doped Tellurite Glass <i><u>Rekia Belhoucif</u></i> *
	Structural and Optical Characterization of CdS Thin Films Deposited by CBD for Photovoltaic Applications <i><u>Mahdia Toubane</u></i> *, Asma Bessaad
	Label-Free Surface Enhanced Raman Spectroscopy for SARS-CoV-2 Proteins of Wuhan and Omicron Variants <i><u>Fariza Hanim Suhailin</u></i> *, Liyana Shatar, Fatin Hamimi Mustafa
	The Effect of Zinc Oxide and Ammonium Thiocyanate in Carboxymethyl Cellulose Polymer Electrolytes for Rechargeable Proton Energy <i><u>Mohammad Shameen Bin Sahman</u></i> , Nur Hidayah Binti Ahmad*, Nurhafizah Binti Hasim, Norshahirah Binti Mohamad Saidi
	Electrical and Physical Properties Study of Carboxymethyl Cellulose-Ammonium Thiocyanate Embedded Zinc Oxide Nanoparticle Based Polymer Electrolytes <i><u>Muhammad Fariz Bin Zulkipli</u></i> , Nur Hidayah Binti Ahmad*, Nurhafizah Binti Hasim, Norshahirah Binti Mohamad Saidi
19:15 – 19:30	Break
Online Session – 24 (in English) Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin	
19:30 – 21:00	Thermal, Optical, and Structural Analysis of LDPE Modified with Copper and Zinc Additions <i><u>Jihad Guendouz</u></i> *, Mohamed Belhamiani, Wahid Oudad
	Influence of Spray Pyrolysis Parameters on Cu ₂ ZnSnS ₄ Thin Films Properties <i><u>Widad Menadi</u></i> *, Salim Kermadi, Lyes Zougar, Samira Sali
	Effect of Grinding Time and Methanol Content on the Synthesis of NiTi Composite Powders <i><u>Serkan Biyik</u></i> *, Aykut Canakci, Furkan Berkay Tamer
	Chemical Interaction and Optical Characteristics of Green Hydrothermally Synthesis Nanostructured Ag-Doped ZnO <i><u>Nur Hasyimah Athilah Abdul Muhaimin</u></i> , Siti Salwa Alias*, Shazwani Shamsor, Aina Zahirah Rohaizam, Siti Rashidah Abdol Razid
	Effect of Temperature on Green Synthesis of Nanosized Catalyst for Photocatalytic Water Splitting Application <i><u>Shazwani Shamsor</u></i> , Siti Salwa Alias*, Nur Hasyimah Athilah Abdul Muhaimin, Aina Zahirah Rohaizam, Siti Rashidah Abdol Razid
	Noise Removal on Marine and Ship Structures

	<u>Shahrizan Jamaludin</u> [*] , Md Meherullah, Md Mahadi Hasan Imran
	Impact of Casing Cooling on Tip Leakage Vortex Behavior and Shock Wave Interactions in a Transonic Axial Compressor <u>Oussama Hachelfi</u> [*] , Riyadh Belamadi, Boudinar Naouam
	Computational Analysis of the Structural, Electronic, Magnetic, Elastic, and Optical Properties of BaCaN ₃ and BaSrN ₃ Perovskites as Potential Spintronic Materials <u>Saadiya Benatmane</u> [*]

Monday, June 23, 2025

Online Sessions

Virtual Hall 1

Online Session – 25 (in English) Head of Session: Dr. Intan Helina Hasan	
09:00 – 10:30	Mechanical Optimization of Virgin Cork Concrete Using Limestone <u>Samah Hariz</u> [*] , Fouad Ghomari, Brahim Touil
	Non-Linear Dynamic Response of a Foundation Embedded in a Compressible Soil Reinforced with Geocells <u>Sofiane Bekakra</u> [*] , Badreddine Sbartaï
	Valorization of Sewage Sludge Ash from Wastewater Treatment in Sustainable Concrete and Mortar: A Review <u>Mahmoud Bouslah</u> [*] , Mekki Maza, Zine El Abidine Rahmouni, Nadia Tebbal
	Rheological Properties of Self-Compacting Concrete Containing Plastic Chips <u>Djebri Noura</u> [*] , Rahmouni Zine El Abidine, Rezaiguia Nouha
	Evaluation of Nano-Indentation Properties of Calcium Carbonate-Filled Epoxy Composites Using ANN and RSM Techniques <u>Rajendran Rajalingam</u> , Umamaheswari Nambiappan [*]
	Study of the Shrinking of Mortars Based on Mineral Additions <u>Kherbach Souad</u> [*] , Ferhati Kamel, Bouzidi Nadjima
	Durability of Sand Concrete Based on Recycled Aggregates <u>Rezaiguia Nouha</u> [*] , Hebhou Houria, Djebri Noura, Berdoudi Said
	Linearly Varying Elastic Foundation Effect on Nonlocal Vibration of Nanobeams Including Cutouts <u>Alim Berk Caglayan</u> [*] , Busra Uzun
10:30 – 10:45	Break
Online Session – 26 (in English) Head of Session: Dr. Nurhafizah Hasim	
10:45 – 12:15	Comparative Study of Nickel Zinc Ferrite and Yttrium Iron Garnet Thick Film

	Inclusion to the Performance of Flexible Patch Antenna <i>Intan Helina Hasan*</i> , Mohd Nizar Hamidon, Alyani Ismail, Ismayadi Ismail
	Path Planning for a Surgical Robotic Arm Using an Upgraded RRT* Algorithm <i>Marie Damien Ndzengue Mebebe*</i> , Beste Bahceci
	Integration of Advanced Energy Management Strategies for Optimizing Fuel Consumption in Hybrid Electric Vehicles <i>Mustafa Alabdulali*</i> , Beste Bahceci
	Host Intrusion Detection Based on Mouse and Keystroke Dynamics <i>Ramil Balaghayev*</i> , Dalius Mažeika
	Key Drivers of AI Adoption in Tourism: A Data-Driven Analysis of Travelers' Behavior <i>Anxhela Ferhataj*</i> , Fatmir Memaj
	Development of Nanotechnology-Based Repellents Against Arbovirus Vectors <i>Marina Anahí Turrado*</i> , Ana Paula Sanguinetti, Cristian Lillo, Jorge Montanari
	Impact of Temperature and Solar Irradiance on the Efficiency of Monofacial and Bifacial Photovoltaic Panels Based on Malaysia Environmental Conditions <i>Siti Atirah Ibrahim, Zulkifli Mohd Yusop*</i>
	Simulation of Autonomous Microgrids: Integration of Renewable Energy with Wind Turbines, Photovoltaic Arrays, Fuel Cells, and Electrolyzers <i>Ahmed Remlaoui*</i> , Driss Nehari
12:15 – 12:30	Break
Online Session – 27 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp	
12:30 – 14:00	Improved Oxidative-Extractive Gas Oil Desulfurization with Mixed Solvent Systems: A Pathway to Higher Sulfur Removal Effectiveness <i>Louiza Aichaoui*</i> , Karima Mahdi, Boudjema Hamada
	Physicochemical Analysis of Essential Oil and Phytochemical Screening of Aqueous Extract of <i>Pinus Halepensis</i> Leaves <i>Meriem Adda Berkane*</i> , Assia Fatiha Righi, Kada Righi
	Photodegradation of Methylene Blue by ZnO and ZnO/CeO ₂ Heterojunction <i>Yacina Djebra*</i> , Hakima Bozetine, Sabrina Aziri, Rezika Bakri
	<i>Pandanus Amaryllifolius</i> -Mediated Nucleation and Growth Mechanism of Silver-Doped Zinc Oxide: A Molecular Dynamics Approach in Green Nanomaterial Synthesis <i>Siti Rashidah Abdol Razid, Siti Salwa Alias*</i> , Juan Matmin, Fazira Ilyana Abdul Razak
	Synthesis and Application of Inhibitor-Loaded Polyurea-Formaldehyde Microcapsules for Copper Corrosion Protection in NaCl Solution

	<p><i><u>Mohammed Lasri</u></i>[*], Nouredine Idlahoussaine, Abdellah Ait Baha, Aziz Ait-Karra, Othmane Zakir, Rachid Idouhli, Mohy Eddine Khadiri, Mustapha Ait Ali, Abdesselam Abouelfida</p>
	<p>Synthesis and Characterization of $\text{Ni}_{1-x}\text{Mg}_x\text{Sb}_2\text{O}_6$ (X = 0, 0.5, and 1) Solid Solution <i><u>Rania Charif</u></i>[*], Rachid Makhoulfi</p>
	<p>A B3LYP Investigation of the 1,3-Dipolar Cycloaddition Reaction of Six Membered Cyclic Nitron with Unsaturated Compounds <i><u>Boulanouar Messaoudi</u></i>[*]</p>
	<p>Every Word Must Begin with a Capital Letter <i><u>Mohammad Hakim Che Harun</u></i>[*], Nazaitulshila Rasit, Sofiah Hamzah, Asmadi Ali, Nurul Aqilah Mohamad, Wahyunanto Agung Nugroho, Ahmad Alsaigh</p>
14:00 – 14:15	Break
<p>Online Session – 28 (in English) Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin</p>	
14:15 – 15:45	<p>Flexible Conductive Nanofibers with Nanocellulose and Carbon Fillers for Electronics <i><u>Mohd Ali Mat Nong</u></i>[*], Juraina Md Yusof, Che Azurahaman Che Abdullah</p>
	<p>The Evolution of Sportswear: From Function to Fashion <i>Méline Legrand, Thelma Thiebot, <u>Ivana Salopek Čubrić</u></i>[*]</p>
	<p>Nomogram for Determining the Characteristics of a Jet-Vortex Pump <i><u>Denys Panevnyk</u></i>[*]</p>
	<p>Optimizing Safety Instrumented Systems for Enhanced Risk Control in Petrochemical Processes: A Genetic Algorithm Approach <i><u>Yasser Rehail</u></i>[*], Youcef Zennir, Nouredine Tchouar</p>
	<p>Opticianry Applications of Shape Memory Alloys <i>Gokhan Kilic, <u>Omar Abboosh</u></i>[*]</p>
	<p>Influence of pH on the Optical and Physicochemical Properties of Carbon Quantum Dots for Dye-Sensitized Solar Cell <i><u>Muhammad Safwan Zaini</u></i>[*], Josephine Ying Chyi Liew, Mazliana Ahmad Kamarudin</p>
	<p>Development of Erbium-Doped Borotellurite Glass Ceramic Dielectric Resonator for Microwave ESR Applications at X-Band <i><u>Yu Hui Lua</u></i>[*], Syazana Othman, Yung Szen Yap, Ezza Syuhada Sazali</p>
	<p>Influence of Chitosan on the Physical, Structural, and Mechanical Characteristics of Silver-Doped Phosphate Biopolymer Glass <i><u>Siti Norfariza Farhana Binti Mohd Razak</u></i>, Nurhafizah Binti Hasim[*], Nur Hidayah Binti Ahmad, Norshahirah Binti Mohamad Saidi, Mohd Fuad Bin Mohamad</p>
15:45 – 16:00	Break

Online Session – 29 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin	
16:00 – 17:30	Biological Control of Citrus Anthracnose Using Essential Oils <i><u>Saliha Ogab</u>[*], M'hamed Benada, Boualem Boumaaza</i>
	Overweight, Calcium Intake, and Calcium Levels in a Group of Children in Tebessa (Algeria) <i><u>Khalida Abla</u>[*], Nassima Toumi-Halaimia, Sawsene Ziani</i>
	Study of Effect on Pregnant Rats Pretreated with Methanolic Extract of <i>Ruta Montana</i> <i><u>Ghadjati Nadhra</u>, Mahdeb Nadia, <u>Bouzidi Abdelouahab</u>[*]</i>
	Evaluation of the Antibacterial Activity of the Methanolic Extract of Ephedra Major Collected from the Batna Region, Algeria <i><u>Benseghir Hassane</u>[*], Hezil Djamila, Benammar Leyla, Hachemi Messaoud, Fayssal Bouchemla, Zekri Kaouther, Tamaarat Soundous Malak, Zemouli Aya</i>
	Composition and Structure of Benthic Diatom Assemblages Across the Safsaf Watershed Northeastern Algeria <i><u>Hadjer Kaddeche</u>[*]</i>
	Chemical Composition, Acute Toxicity, and Pharmacological Activities of Essential Oils from Medicinal Plants of Southern Algeria <i><u>Mohammed El Amin Said</u>[*], Youcef Benaissa Keddar, Khedidja Benouis, Kaoutar Si Afif</i>
	Statistical Optimization of Antibiotic Degradation Using the Fenton Process: ANOVA-Based Experimental Analysis <i><u>Mouna Chala</u>[*], Nassima Boudrahem, Ahlam Atik Hamoud, Fatima Boumechhour</i>
	ANFIS-Based Intelligent Modelling with PCA Features Selection for Optimal Coagulant Dosage in Drinking Water Quality Monitoring <i><u>Mohamed Ladjal</u>[*], Mohammed Assam Ouali, Hamza Bennacer, Abousoufyane Slatnia, Mohamed Imed Khelil</i>
17:30 – 17:45	Break
Online Session – 30 (in English) Head of Session: Dr. Nurhafizah Hasim	
17:45 – 19:15	Grey Wolf Optimizer for an M/M/1/K Under the N-Policy and Discouragement Behavior <i><u>Abir Kadi</u>[*], Mohamed Boualem, Nassim Touche</i>
	Effect of Cocoa Powder Addition on Milk Quality and Antioxidant Potential <i>Samira Lagha-Benamrouche, <u>Djamila Hezil</u>[*]</i>
	Long Terminal Repeat-Retrotransposons in Poaceae: Abundance, Evolution, and Impact on Genome Structure

	<u>Asmaa Hassan</u> , <u>Morad Mokhtar</u> , <u>Achraf El Allali</u> *
	Integrative Morphological and Molecular Characterization of Gill Monogeneans in Wild and Farmed <i>Sparus Aurata</i> from Tunisia <u>Khadija Doukali</u> *
	Computation of Reverse Topological Indices of Some Mycielski Graphs <u>Mukaddes Okten Turaci</u> *
	A Comprehensive Study of DNA's M-Fractional Double-Chain Model <u>Gulnur Yel</u> *
	Steady Dispersion of Solute in Casson Blood Flow through a Stenosed Artery with the Effect of Temperature <u>Nur Husna Amierah Mohd Zaperi</u> *, <u>Nurul Aini Jaafar</u>
	Prediction of Fine Particulate Matter (PM2.5) in the Urban Area of Terengganu City, Malaysia Using Artificial Neural Network (ANN) <u>Samsuri Abdullah</u> *, <u>Amalina Abu Mansor</u> , <u>Aimi Nursyahirah Ahmad</u>
19:15 – 19:30	Break
Online Session – 31 (in English) Head of Session: Assoc. Prof. Dr. Murat Colak	
19:30 – 21:15	Logistic Regression Method for Predicting CVD <u>Harun Selvitopi</u> *, <u>Seda Demir</u>
	Assessing Climate Change Impacts on Land Surface Temperature in Thanjavur District to Enhance Sustainable Development and Urban Heat Island Mitigation <u>Karthik Karunakaran</u> *, <u>Karuppasamy Sudalaimuthu</u>
	Synthesizing Enhanced κ -Carrageenan Adsorbents for Efficient Dye Removal from Aqueous Solutions <u>Wan Farahiyah Wan Kamarudin</u> *, <u>Asmadi Ali</u> , <u>Sofiah Hamzah</u> , <u>Abd Rahman Mat Amin</u>
	3D Printed Custom-Made Peristaltic Pump for Smart Toilet Urine Collector <u>Mikail Temirel</u> *
	The Study of Electro-Oxidation Process of Industrial Wastewater Treatment <u>Sofiah Hamzah</u> *, <u>Nurathirah Aina Arman</u> , <u>Nuraiana Adlina Yusmaini</u> , <u>Asmadi Ali</u> , <u>Mohammad Hakim Che Harun</u> , <u>Nazaitulshila Rasit</u> , <u>Nurdiyana Suzaimi</u>
	Analytical Solutions of Multiplicative Differential Equations via Convolution Theorem <u>Hatice Yalman Kosunalp</u> *, <u>Merve Kara</u>
	Investigation of the Effect of Cooling Plate Method on Grain Size in Casting Etial177 Aluminum Alloy <u>Murat Colak</u> *, <u>Gurhan Deniz</u>
	Investigation of the Effect of V Addition on the Fluidity Properties of Etial160

	Aluminum Alloy Casting <i><u>Murat Colak</u></i> [*] , <i>Omer Avci</i>
	Tribological and Mechanical Properties of Boron and CNT Reinforced Aluminium Composites <i>Burak Varol</i> [*] , <i><u>Cevher Kursat Macit</u></i> , <i>Cetin Ozay</i>

Virtual Hall 2

Online Session – 32 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek	
09:00 – 10:30	Investigation of Structural, Morphological, and NO ₂ Gas Sensitivity of Mg-Cu Ferrites <i><u>Tugba Sasmaz Kuru</u></i> [*] , <i>Mevlut Gurbuz</i>
	Anomaly Detection in Photovoltaic Panels via YOLOv8-Based Deep Learning Framework <i>Murat Uyar</i> [*] , <i><u>Rifat Burak Ozkan</u></i>
	Highly Active and Reusable Pd Nanocatalyst Decorated on Sodium Alginate Microspheres for Remediation of Industrial Contaminants from Wastewater <i><u>Nuray Yilmaz Baran</u></i> [*]
	Synthesis, Characterization, Determination of Photophysical and Photochemical Properties of Novel Peripherally Tetra Morpholino Substituted Zinc(II) Phthalocyanine <i>Hayat Tasyurek</i> , <i><u>Umit Demirbas</u></i> [*]
	Synthesis, Characterization, Determination of Electrochemical and Spectroelectrochemical Properties of Novel Peripherally Tetra Substituted Cobalt(II) and Copper(II) Phthalocyanines <i><u>Umit Demirbas</u></i> [*] , <i>Duygu Akyuz</i>
	Production of Boric Acid from Tincal: Investigation of Evaporation and Crystallization Stages <i><u>Hulya Senol Balci</u></i> [*] , <i>Duygu Adiguzel</i> , <i>Osman Nuri Ata</i>
	Investigation of the Effect of Current on Saturated Concentrations of Boric Acid (H ₃ BO ₃) and Salt (NaCl) Solution in a Bipolar Membrane Electrodialysis System <i><u>Hilal Turgut</u></i> [*] , <i>Duygu Adiguzel</i> , <i>Osman Nuri Ata</i>
	Investigation of the Effect of Glass Surface Cleaning Process on Glass Coating Properties <i><u>Efkan Cicek</u></i> [*] , <i>Ozge Hande Yalcin Durak</i> , <i>Duriye Kok</i>
10:30 – 10:45	Break
Online Session – 33 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek	
10:45 – 12:30	Optimization of Microstrip Antenna Parameters Using Genetic Algorithm: A

	Review Study <u>Caglar Tozoglu</u> *
	Classification of Propeller Faults in UAVs Using Mel-Frequency Cepstral Coefficients <u>Temel Sonmezocak</u> *, Merih Yildiz
	MAC Protocols Developed for Traditional and Next-Generation Sensor Nodes <u>Hilal Kaya</u> , Selahattin Kosunalp, Mehmet Baris Tabakcioglu*
	A Real-Time WebSocket-Based Digital Twin Approach for Industrial Automation Processes <u>Cemal Pamukcu</u> *, Numan Dogruay, Abdulsamed Tabak
	Coverage Area Mapping Through Continuity Equation Solutions in L Parameter Calculation <u>Bahtiyar Bayram</u> , Mehmet Baris Tabakcioglu*
	Optimal FOPID-PSS Parameters Tuning via GOA and POA for Improvement of SMIB Performances <u>Mustafa Saka</u> *
	FPGA-Based Embedded System for Real-Time Detection and Analysis of RF Signals in Tactical Electronic Warfare <u>Kazim Duraklar</u> *
	Design and Implementation of a Low-Cost IoT-Based Air Purification Unit <u>Yavuz Bahadir Koca</u> *, Elif Aktepe
	Traveling Wave Solutions for the Fourth-Order Nonlinear Ablowitz-Kaup-Newell-Segur Water Wave Equation <u>Bahadir Kopcasiz</u> *

* : Corresponding Author

_ : Presenter

Summary of Sessions

Friday, June 20, 2025		
<i>Conference Hall</i>		
Opening Session		
<i>Conference Hall</i>	<i>Drawing Workshop</i>	<i>Computer Laboratory 1</i>
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Onsite Session – 2		
<i>Virtual Hall 1</i>		<i>Virtual Hall 2</i>
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