ICENSTED 2024 PROGRAM

Friday, July 19, 2024

Conference Opening

Conference Hall (Kiraz Beach Hotel, Erdek)

09:15 – 09:45		Registration and Tea/Coffee Service
09:45 – 10:00	Opening Ceremony	Assoc. Prof. Dr. Selahattin Kosunalp – On Behalf of the Organizing Committee
10:00 – 12:30	Opening Session	Materials for Eco-Design Strategies for an Innovative Industry Invited Speaker – Prof. Dr. Rodrigo Martins Emerging Nanotechnologies for Targeting Antimicrobial Resistance: A Special Focus on Chronic Wound Healing Invited Speaker – Prof. Dr. Saravanan Muthupandian Carbon Based Electrode for Gas Sensor Invited Speaker – Prof. Dr. Mohd Nizar Hamidon Vismodegib and Skin: The Challenge of Changing the Administration of an Anticancer Drug with Nanotechnology Invited Speaker – Prof. Dr. Jorge Montanari Evolutionary Trends in RACH Access Techniques Towards a 5G Cellular Invited Speaker – Dr. Lawal Mohammed Bello Integration of Existing Control Systems to the Requirements and Principles of Industry 4.0 Invited Speaker – Dr. Dimitar Totev Deployment of Carbon Based Nanomaterials for Gas Sensing Applications Invited Speaker – Dr. Zainab Yunusa Health Implications of Glycation products in Diabetes and Its Secondary Complications Invited Speaker – Dr. Ahmad Ali
12:30 – 13:30		Lunch (Kiraz Beach Hotel Restaurant)

Onsite Sessions

Conference Hall (Kiraz Beach Hotel, Erdek)

	Onsite Session – 1 (in English) Head of Session: Assoc. Prof. Dr. Melike Sevim
13:30 – 14:30	Investigation of the Morphological Structures of PVDF-HFP Flat Sheet Membranes Prepared with Different Concentrations of DMAC/DMF Solvents and Their Performance in DCMD System *Ayse Diskaya*[*], *Ahmet Bora Yavuz, Osman Nuri Ata*

	Efficiencies of FePd Nanoparticles in Basic Red 46 Removal *Fatma Guclu, Melike Sevim*[*]
	Study of the Photoreduction of Co2+ Ions Under Solar and Visible Light Irradiation *Samira Tebani*[*], *Lila Kerrai, Samir Ladjali*
	The Use of Glass and Other Alternative Materials in the Cement Industry *Damir Mulamehmedovic, Zehrudin Osmanović*[*], *Ervin Karic, Belmina Hadžalic, Elma Bajric*
	Kinetics and Thermodynamics of Thermal Decomposition of Medlar Seed by TG/DTG *Zelal Koyuncu, Meltem Kizilca Coruh*[*]
	Investigation of Kinetic and Thermodynamic Properties in Response to Thermal Degradation of Ligno-Cellulosic Mixture Prepared from Grape, Pomegranate, and Rosehip Seeds *Meltem Kizilca Coruh*[*]
14:30 – 14:40	Tea/Coffee Break
	Onsite Session – 2 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
14:40 – 15:30	Application and Analysis of Experimental and Numerical Studies to the Film Cooling Turbine Blade *Amar Berkache*[*], *Rabah Dizene*
	Recent Trends on Low Pressure Carburizing Furnaces and Process *Alper Kelesoglu*[*], *Semih Demirci, Beste Ozdeslik*
	Evaluation of Spectral Efficiency (SE) and Energy Efficiency (EE) of 5G Green Networks Using Soft Computing *Mahmood Subhi Hussein Sahar*[*], *Koksal Erenturk*
	Market Shelf Products Detection and Recognition Using YOLO, Faster R-CNN, and SSD Mobilenet *Alaa Mohamed Jamel Abdulqader Mawlawi*[*]
	Energy Efficiency Evaluation of 5G Radio Access Networks Using Fuzzy Logic and ANFIS *Mohammed Imad Adil Salihi*[*]
15:30 – 15:40	Tea/Coffee Break
	Onsite Session – 3 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
15:40 – 16:40	Developing a Software System to Randomly Generate Problem Sets in a Data Analytics Course *Ahmet Ozkul*[*]

	Hysteresis Voltage and Current Control for Fuel Cell Fed Power Circuits *Unal Yilmaz*[*]
	Factors Influencing the Adoption of Electric Vehicles in the U.S. *Serkan Varol*[*], *Taylor Ransom*
	Experimental Study of Failures of Air Conditioners System Tram in Desert Areas by Applying Preventive Maintenance (Using FEMA and Reliability Lows) *Khaled Lemnaouer*[*], *Messaoud Louafi, Zoubir Aoulmi, Rabie Karek, Mounia Taleb*
	Design of a Low-Profile Metasurface-Based Linear Polarization Converter and RCS Reduction Using This Converter Design *Yunus Kaya*[*]
	Evaluation of Short-Term Traffic Flow Prediction Approaches in Transportation *Selahattin Kosunalp*[*], *Yunus Kaya*
16:40 – 16:50	Tea/Coffee Break
Onsite Session – 4 (in Turkish)   Head of Session: Assoc. Prof. Dr. Ezgi Topcu
16:50 – 17:30	$MnCo_2O_4$ Modified Flexible Graphene Paper for Electrochemical Sensing of Paracetamol *Murad Shafiyev, Ezgi Topcu*, *Elif Ercarikci, Kader Dagci Kiransan*
	Investigation of the Cleanability of High Ash Asphaltite Sample Using the Oil Agglomeration Method *Oyku Bilgin*[*]
	Hydrogen Evolution Reaction on MoO_3 Decorated-$CuBi_2O_4$/Reduced Graphene Oxide Nanocomposite *Zeynep Orhan, Hulya Ozturk Dogan*[*]
	Flow and Heat Characteristics over Ellipse in the in-Duct Flow *Neslihan Aydin*[*]
17:30 – 17:40	Tea/Coffee Break
Onsite Session – 5 (in Turkish)   Head of Session: Asst. Prof. Dr. Hilal Kubra Saglam
17:40 – 18:30	Risk Factor Estimation with Ordered Logit and Ordered Probit Models *Burcu Durmus*[*], *Oznur Isci Guneri, Aynur Incekirik*
	Effect of α-Fe_2O_3 on Gas Detection Performance of MgO Thin Films *Hilal Kubra Saglam, Sevda Saritas*[*]
	Analysis of Quality Risks on the Assembly Line in an Armature Manufacturing Company Using FMEA Method *Fatma Merve Bayir Kanbur*[*], *Hasan Selim*

	A Study on the Effects of Electromagnetic Fields *Yunus Kaya*[*], *Selahattin Kosunalp*
	Anticancer Activity of Acetaminophen-Platinum (II) Complex Against ER-Positive Breast Cancer *Mustafa Tugfan Bilkan*[*], *Meric Arda Esmekaya, Nurhan Ozdemir*

Online Sessions

Virtual Hall 1

	Online Session – 1 (in Turkish) Head of Session: Asst. Prof. Dr. Mustafa Ozdemir
13:30 – 14:50	Impregnation of Wood Material with Magnesium Chloride ($MgCl_2$) and Determination of Leaching Properties *Melek Yilmaz Yasbek*[*], *Mehmet Yeniocak*
	Determination of Reservoir Water Level by Classical and Artificial Intelligence Methods *Sema Karahan*[*], *Zeyneb Kilic*
	Historical Environments Affected by the Earthquake in Kahramanmaras City Center and Restoration Suggestions *Hatice Dokme, Sinan Kordon*[*]
	The Sociological Benefits of Green Infrastructure Systems: Inclusive and Healthy Cities for Communities *Esra Tan, Sinan Kordon*[*]
	Traditional Uses of Medicinal Plants Naturally Distributed in Yerkesik Basin (Mentese-Mugla) *Kenan Akbas*[*]
	Vegetative Anatomy of Two Endemic *Muscari* L. Species in Türkiye *Dudu Ozlem Mavi Idman*[*], *Huseyin Guldal, Ali Gercek, Huseyin Eroglu*
	Kombucha-Derived Bacterial Cellulose Production with Herbal Tea and Different Coffee Combinations *Nazli Neval Sahin, Nermin Hande Avcioglu*[*]
	Evaluation of Gene Expression Levels of Antimicrobial Peptides (MsDef1 And MsSN1) from *M. Sativa* Sazova Cultivar During 21-Day Period *Busra Albayrak Turgut*[*]
14:50 – 15:00	Break
	Online Session – 2 (in Turkish) Head of Session: Asst. Prof. Dr. Mustafa Ozdemir
15:00 – 16:20	Investigation of the Effect of Chemical Additives on Performance in the Deep Mixing Method with Model Experiments *Yunus Emre Colak*[*], *Sukru Ozcoban, Mustafa Mert*

	Investigation of the Structure-Pile-Soil Interaction Behaviour in Earthquake Condition of a Reinforced Concrete Building with Pile Foundation *Evrim Er*[*], *Sami Oguzhan Akbas*
	Determination of Risk Factors within the Scope of Water Supply Management in Water Transmission Systems *Yusuf Kilinc*[*], *Cansu Bozkurt, Mahmut Firat*
	Defining the Impact Levels of Risk Factors in Water Transmission Systems *Yusuf Kilinc*[*], *Cansu Bozkurt, Mahmut Firat*
	Determination of Regional Earthquake Risk Distribution of Buildings in the Central Gencosman Neighborhood of Bayburt Province *Omer Can, Ertekin Oztekin, Omer Bayrak*[*]
	Use of Bayburt White Stone Waste and Paper Mill Waste Lignin as a Plasticizer/Air-Entraining Concrete Additive in the Production of Carrier and Non-Carrier Lightweight Concrete *Omer Bayrak*[*], *Emin Erdem*
	An Innovative Method of Getting Impactive Ideas *Leyla Erkol*[*], *Murat Arslanoglu, Sevilay Sagtan, Fatih Cagirankaya, Ali Yazgan*
	Preservation Issues and Recommendations for Traditional Housings in Urban Centers: The cases from Corum, Turkey *Furkan Karahan, Emine Saka Akin*[*]
16:20 – 16:30	Break

Online Session – 3 (in Turkish)
Head of Session: Asst. Prof. Dr. Ramazan Simsek

	Crashworthiness Design and Damage Analysis with Multiple Internal Structure Pattern *Hakan Burcin Erdogus*[*]
	Analysis of Diesel/Bio-Oil Blends Produced by Co-Pyrolysis of Spruce with Glycerol *Ahmet Rasim Girisen*[*], *Hakan Ozcan*
16:30 – 17:50	Investigation of Oxidative Stability Behavior of Kaolin Nanoparticles Doped Bio-Based Palm Lubricants *Batuhan Ozakin*[*], *Kursat Gultekin, Nalan Turkoz Karakullukcu*
	Production of 3D Woven Textile Composites and Investigation of Their Impact Performance *Serkan Erdem*[*], *Mete Onur Kaman*
	Evaluation of the Tribological Performance of AA 6061 Coated with Polyurethane/Ti6Al4V Composite *Yusuf Burak Bozkurt*[*]

	Numerical Simulation Study of Curvature Radius on the Flexibility and Stress Distribution in Hyperelastic Materials *Galip Yilmaz*[*]
	Creation of a Digital Twin for Remote Fault Detection of a CNC Machine *Cemal Pamukcu*[*], *Numan Dogruay, Abdulsamed Tabak*
	Design and Analysis of Lightweight 3D-Printed Lattice Structures Using Fused Deposition Modelling *Turker Turkoglu*[*]
17:50 – 18:00	Break
	Online Session – 4 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek
18:00 – 19:20	Numerical Investigation of Heat Transfer Performances in Spiral Dimpled Pipe Profiles *Anil Aykut*[*], *Veysel Ozceyhan*
	Natural Fibers: A Sustainable Alternative for Composite Reinforcements *Mehmet Cagri Tuzemen*[*]
	Structural Analysis of Hopper Support Frame of Vacuum Road Sweeping Vehicle on Truck Mounted *Onur Can Kirit*[*], *Vedat Fetullahoglu*
	Use of Hardox 500 Tuf in Tippers *Resul Akcali*[*], *Akin Zengin, Mustafa Yilmaz*
	Structural Analysis of Safety Leg on the Vacuum Road Sweeper Mounted on Truck *Omer Coskun*[*], *Vedat Fetullahoglu*
	An Approximate Q-Learning Approach to the Dynamic Pricing and Inventory Control Problem of Perishable Products *Tugce Yavuz*[*], *Onur Kaya*
	Optimizing Workforce and Sub-Lot Scheduling in Seru Production Systems *Beren Gursoy Yilmaz*[*], *Emre Cevikcan, Omer Faruk Yilmaz*
	Development of Beneficiation Flow Diagram of Malatya-Kuluncak Rare Earth Oxide (NTO) Ore *Gafure Ersever Angur*[*]
19:20 – 19:30	Break
	Online Session – 5 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek
19:30 – 20:50	A_α – Statistical Limit Superior and Limit Inferior via Ideals *Mustafa Gulfirat*[*]

	Certain Aspects of Weak Statistical Convergence via Ideals *Mustafa Gulfirat*[*]
	Investigation of the Conductivity Mechanismus of $ZnO/C_{10}H_{10}N_2$ pn Heterojunction Produced by Spin Coating Method *Ramazan Demir*[*]
	A Review of Using of Geopolymers -As an Immobilization Matrix- on Radioactive Waste Management *Furkan Cinar*[*], *Sema Akyil Erenturk*
	Recovery of Critical Metals from Spent Li-Ion Batteries by Deep Eutectic Solvents (DESs) as Green Approach *Ceren Erust*[*]
	Different Machine Learning Models with Mushroom Comparision *Idil Sila Gonenc*[*], *Muhammet Cakmak*
	Factors Affecting Deterioration of Wall Paintings *Ozge Karadeniz*[*], *Evin Caner*
	Correlation Analysis with the Help of Vector *Ramazan Simsek*[*]

Virtual Hall 2

	Online Session – 6 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin		
13:30 – 14:50	Grape Puree-Added and Freeze-Dried Yoghurt Drops: Enumeration of Lactic Acid Bacteria and Determination of Some Physical Properties *Sebahat Oztekin*[*]
	Contamination by Pesticides of Water and Health Using Artificial Neural Networks *Benzidane Chahrazed*[*], *Bouharati Khawla, Fenni Mouhamed*
	Nutrient-Rich Biofertilizers: The Role of Spirulina Sp and Microalgae in Soil Health Enhancement *Charef Nassira*[*], *Tamer Fatma Zohra, Saada Zakia, Belaid Boutheina, Bougueroua Karima, Elleuch Jihen, Nasri Hichem*
	Growth Control of Cyanobacteria and Cyanotoxins by Biological Methods *Tamer Fatma Zohra*[*], *Charef Nassira, Nasri Hichem*
	Spirulina Sp - Cultivation, Production, and Applications *Saada Zakia*[*], *Charef Nassira, Tamer Fatma Zohra, Belaid Bouthaina, Elleuch Jihen, Nasri Hichem*
	Conditions for Culture and Valorization of Microcystis Cyanobacteria *Saada Zakia*[*], *Charef Nassira, Tamer Fatma Zohra, Belaid Bouthaina, Elleuch*

	Jihen, Nasri Hichem
	In Vitro Antioxidant and Anti-Hemolytic Effect of Algerian *Centaurea Calcitrapa* L. Extracts *Krache Imane**, *Trabsa Hayat, Boussoualim Naouel, Arrar Lekhmici, Baghiani Abderrahman*
	Canopy Dynamics in the Bissa Forest: Chlef, West Algeria <u>*Fatima Belhacini*</u>*, *Djamel Anteur, Faycal Tsourly, Djahida Hedidi*
14:50 – 15:00	Break
Online Session – 7 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin
15:00 – 16:20	Biocontrol of Gray Mould in Strawberries with Pectin-Based Coatings Incorporated with Yarrow (*Achillea Millefolium* L.) Extract <u>*Sebahat Oztekin*</u>*
	Lyophilized Strawberry Slices with Various Thicknesses and Investigation of Their Drying Characteristics *Erman Kadir Oztekin,* <u>*Sebahat Oztekin*</u>*
	Antibiotic Resistance Pattern of *Pseudomonas Sp* in Tilapia Fish *Oreochromis Sp*, and Aquarium Water <u>*Romeissa Derdachi*</u>*, *Sabrine Boucetta*
	Sample Preparation for Soil Analysis of an Endangered Species in the Sidi Bel Abbes Region (North West Algeria) <u>*Mounir Chihab*</u>*, *Ali Khalfa*
	Comparative Study of the Effect of Two Irrigation Methods (Drip and Submersion) on the Behavior of Two Varieties of Olive Trees (*Olea Europaea* L) in the Semi-Arid Zone of Bordj-Bou-Arreridj <u>*Faycal Bahlouli*</u>*, *Hamza Belguerri, Nacira Chourghal, Amel Salamani, Mouhamed Benaini, Khelifa Maamri, Fairouz Mihoubi, Aicha Cherroura, Younes Atek, Fares Aissat*
	Estimating Aphid Parasitoid Diversity in Guelma's Citrus Orchards, Eastern Algeria <u>*Omar Khaladi*</u>*, *Amira Bouderbala*
	Egg Quality Characteristics of Local Laying Hens in Oasis Family Farms of Adrar (Algeria) <u>*Abderrahmen Boubekeur*</u>*, *Mohammed Bouallala, Redhwen Bari, Mohammed Souddi*
	Impact of *Thymus Vulgaris* and *Lavandula Angustifolia* Essential Oils on the Carcass Characteristics of Broiler Chickens <u>*Benameur Qada*</u>*, *Laah Jude Attat, Sidi Faruk, Kassous Tahar, Arabi Abed*
16:20 – 16:30	Break

	Online Session – 8 (in English) Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin
16:30 – 17:50	Effect of an Essential Oils Mixture on the Growth Performance of Broiler Chickens *Laah Jude Attat, Benameur Qada*, Sidi Faruk, Kassous Tahar, Arabi Abed*
	Comparative Study of the Biogas Yield of Three Olive Mill Wastewater in the Thermophilic Phase *Bani Kheiredine*, Amrouci Zahra, Belmili Zineb, Ghetahem Dalal*
	Enhancing the Quality of PET Images Reconstructed by Filtered Back Projection and Ordered Subsets Expectation Maximization *Benyelles Asma*, Korti Amel*
	Artificial Intelligence in Camel Racing: Health Maintenance and Prevention *Amira Djeddou Benabid*, Hind Houssou, Khaled Djeddi, Dounia Ouachtati*
	Antimicrobial Profile of Asian Honey Bee Using Culture Dependent Method *Iram Liaqat**
	Medical Image Analysis Using Neural Networks *Berrimi Fella**
	Exploring the Potential of the Genus Achillea on Antiproliferative and Apoptotic Effects of Human Cancer Cell Lines *Renda Chahna**
	Study and Prevention of Occupational Risks (Case of the Elmalabiod Cement Plant) *Taleb Mounia**
17:50 – 18:00	Break
	Online Session – 9 (in English) Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin
18:00 – 19:20	Effectiveness of Aeration Followed by Statistical Optimization of AOP'S (Ultraviolet/Ultrasonic Active Persulfate/Hydrogen Peroxide) Process Parameters for the Treatment of Young Landfill Leachate *Hamza Bellouk*, Ilham Zouitane, Imane El Mrabet, Naima El Ghachtouli, Hicham Zaitan*
	Sono-Pyrolysis of Methane for Enhanced Hydrogen Production *Aissa Dehane*, Slimane Merouani, Atef Chibani*
	Photodegradation of Metobromuron by a Photo-Fenton Like Process Using Fe(III)-Picolinic Acid Complex as Catalyst in Aqueous Medium *Sellam Badreddine*, Seraghni Nassira, Bouaziz Chaima, Sehili Tahar*
	Photocatalytic Efficiency of Pure and Cu-Doped ZnO Thin Films *Khemissi Lahouel*, Abdecharif Boumaza, Meriem Gasmi*

	Exploring the Structural, Optical, and Surface Characteristics of NiO Thin Film for Environmental Applications *Meriem Gasmi*[*], *Khemissi Lahouel, Saida Hoggas, Sabiha Hakkar*
	Voltametric and Molecular Docking Investigations of Ferrocenylmethylaniline and Its N-Acetylated Derivative Interacting with DNA *Asma Yahiaoui*[*], *Benyza Nabil, Amel Messai, Touhami Lanez, Elhafnaoui Lanez*
	Response Surface Methodology Study of Corrosion Behavior in Presence of a Pharmaceutical Drug *Naceur Benhadria*[*], *Tarik Attar, Abbes Benchadli, Esma Choukchou-Braham*
	Synthesis, Crystal Structure, Thermal Behavior, and Magnetic Study of 1D Cobalt (II) Coordination Polymer with Dinitrogen Tetrahydride as Bridging Ligand *Safaa Hidaoui*[*], *Najlaa Hamdi, Michal Dusek, Nicola Morley, Mohammed Lachkar, Brahim El Bali*
19:20 – 19:30	Break

<div align="center">
Online Session – 10 (in English)
Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin
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	Vibrational Spectroscopic Analysis of 2,6-Bis(4-Fluorophenyl)-3,3-Dimethylpiperidin-4-One (BFDP), DFT, and Molecular Docking Study *Kheira Hammou*[*], *Mohamed Cherif Terkhi, Nourdine Boukabcha*
	Elastic Anisotropies and Electronic Properties of Tetragonal Spinel $CuBi_2O_4$: A DFT Calculation *Rania Charif*[*], *Rachid Makhloufi*
	Investigation of the Effect of Membrane Type on Ammonia Formation from Ammonium Chloride and Sodium Chloride in Two-Compartment Bipolar Membrane Electrodialysis *Fatemeh Abbasi*[*], *Duygu Adiguzel, Osman Nuri Ata*
19:30 – 20:50	Synthesis of Quinoxaline Containing Thiazole Moiety Derivative, Biological Activities, Docking Studies, and ADMET Analysis *Anissa Boumati*[*], *Imane Idris, Omar Berradj*
	Investigation into Mathematical Modeling of Light Naphtha Isomerization Using Bi-Functional Catalysts *Boudjema Amir Lehtihet*[*], *Tayeb Fakhreddine Boukezoula, Lahcène Bencheikh*
	Effects of Operating Parameters on the Crystallization Yield of Copper Sulfate: An Experimental Study *Amira Boufrioua*[*], *Sarra Guilane, Leila Benmansour*
	Exploring CA/CuO in Adsorption and Photocatalysis for Toxic Wastewater Treatment: Preparation, Mechanisms *Oumnia Rayane Benkouachi*[*], *Abdallah Bougeuttoucha, Kamilia Madi*

	Determination and Study of Pollution in Chemical Variables in Industrial Waste Water for the Concrete Factories *Mohamed Nadjib Rebizi*[*]

Saturday, July 20, 2024

Online Sessions

Virtual Hall 1

Online Session – 11 (in English) Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin	
09:00 – 10:20	A Magnetic Field's Impact on a Spiral Porous Fin Exposed to Radiation and Convection *Nadia Daradj*[*], *Bouaziz Mohamed Nadjib*
	Investigation of the Applicability of Ni-P-Cu Coatings to the Expanded Graphite/PCM Composite Blocks Surfaces by Electrolysis *Onur Guler, Mustafa Yusuf Yazici*[*]
	Modeling the Phenomenon of Degradation of a TK31 Centrifugal Compressor by Aleatory Processes *Souhila Bouleghlem*[*], *Naima Tamaloussi, Lamia Benzaid*
	Challenges of Latent Heat Energy Storage for Energy Efficiency Enhancement *Mohamed Teggar*[*]
	Effect of Resin Coating on Mechanical Properties of 3D Printed Parts *Abdurrahim Temiz*[*], *Fatih Huzeyfe Ozturk*
	Numerical Study of Magneto-Double-Diffusive Natural Convection of a Nanofluid Flowing in a Concentric Annular Space *Nesrine Rachedi*[*], *Messaoud Guellal*
	Preventive Maintenance of an Industrial Reciprocating Compressor by Oil Analysis *Lamia Benzaid*[*], *Naima Tamaloussi, Toufik Sebagh*
	Flow Analysis for a Light Commercial Vehicle with a Vertical Axis Turbine Added for Power Generation *Erman Kadir Oztekin*[*]
10:20 – 10:30	Break
Online Session – 12 (in English) Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin	
10:30 – 11:50	Energy Consumption and Moisture Extraction Optimization in a Heat Pump Tumble Dryer *Berkay Yilmaz*[*], *Mehmet Alper Sav, Yusuf Balsever*
	Numerical Investigations on the Effect of Isothermal Multi-Jets in Air Curtains

	with LES Approach *Sahnoun Rachid*, Drai Ismail, Merouane Habib*
	Numerical Study of Flow Around Counter Rotating Cylinder *Drai Ismail*, Sahnoun Rachid, Merouane Habib, Yahiaoui Tayeb*
	The Effect of Bluff Body Geometry on the Combustion of CH4/Air *Merouane Habib*, Drai Ismail, Sahnoun Rachid*
	Design and Implementation of an Intelligent Irrigation System *Toufik Sebbagh*, Islam Boukhadra*
	The Production of Bamboo Based Natural Composite Materials and Comparison of Their Material Properties with Particleboard MDF Boards *Ali Gumustekin*, Sedat Ozden, Fehmi Nair*
	Elastic Repair Analysis for the Interaction Between Two Semi-Elliptical Cracks in a Damaged Aeronautical Structure *Belhamiani Mohamed*, Bouzitouna Wahiba Nesrine, Oudad Wahid, Djebbar Noureddine*
	Investigation of the Effects of a Heated Vest on Blood Pressure and Body Temperature of Male Individuals *Emre Demirci, Erman Kadir Oztekin**
11:50 – 12:00	Break
	Online Session – 13 (in English) Head of Session: Asst. Prof. Dr. Erman Kadir Oztekin
12:00 – 13:20	Microstructure Analysis of Ni-Mn-Ga Epitaxial Thin Films on MgO (100) *Gizem Durak Yuzuak**
	Effect of Using Phosphate Sludge in Geoplymerization: A Review *Nour El Houda Benghalem*, Nadia Tebbal, Zine El Abidine Rahmouni, Mekki Maza*
	Enhancing Mechanical Properties of Titanium Alloys Through Microstructural Control and Alloying Additions *Mohamed Boudiaf**
	Synthesis of Iron Copper Binary Nanoparticles Based Phosphate and Application in Multi-Components Reaction *Berrichi Amina*, Bachir Redouane*
	Innovative Hybrid Systems for Improving Organic Solar Cells: Encapsulation of Organic Molecules in Carbon and Boron Phosphide Nanotubes *Soufiane Elhadfi*, Jamal Chenouf, Brahim Fakrach, Hassane Chadli*
	Unlocking the Potential of Waste Steel Fibers for Improving High-Performance Concrete *Rekia Zouini*, Makani Abdelkadir, Tafraoui Ahmed*

	Numerical Performance Simulation of a MoSe₂-Based Solar Cell Using SCAPS-1D Simulator *M'hamed Semlal, Mohamed Khuili*, Nejma Fazouan, El Houssine Atmani*
	The Impact of the Alkali-Bleaching Treatment on the Isolation of Natural Cellulosic Fibers from Juncus Effesus L Plant *Mona Benali*, Abdallah Oumekki, Jamil Toyir*
13:20 – 13:30	Break

Online Session – 14 (in English)
Head of Session: Asst. Prof. Dr. Ramazan Simsek

	Noble Metal Nanomaterials in Biosensors *Adil Bouhadiche*, Soulef Benghorieb*
	Bound States of 2D Dirac Oscillator in the Deformed Space *Lakhdar Sek*, Mokhtar Falek, Mustafa Moumni*
	The Applied Physics for Electronic Systems: Detecting of Pollutant Gas Based Pure SnO₂ Semiconductors *Youssef Doubi*, Bouchaib Hartiti, Maryam Siadat, Hicham Labrim, Mounia Tahri, Phillipe Thevenin*
	Optimization for High-Efficient and More Stable RbGeI3 Perovskite Solar Cells *Abdelkader Bouhenna*, Kada Boualem, Nabil Beloufa, Soufi Hadjer, Aboubakr Seddik Kebaili*
13:30 – 14:50	Approximation Solutions of Time dependent Schrodinger Equation for Deng-Fan Potential Using the Nikiforov-Uvarov-Functional Analysis *Medjber Salim**
	Conceptual Study of Surface Plasmon Resonance Sensor for Glucose Level Monitoring *Mohamed Esseddik Ouardi*, Kada Abdelhafid Meradi, Fatima Tayeboun*
	Comparative Study of Performance of Different Perovskite Solar Cells Based on Organic and Inorganic Thin Films *Riane Houaria*, Bidi Sara, Boussaada Salah Eddine, Mouchaal Younes*
	Evanescent Wave Coupling Surface Plasmon Resonance (SPR) Sensors *Fariza Hanim Suhailin**
14:50 – 15:00	Break

Online Session – 15 (in English)
Head of Session: Asst. Prof. Dr. Ramazan Simsek

15:00 – 16:20	Exploring the Optoelectronic Properties of NaAuF4: Insights and Applications *Ishak Mebarkia**
	Exploring the Optical and Thermoelectric Properties of Eco-Friendly Perovskite Alloys for Solar Cell Applications

	Lakhdar Benahmedi[*], *Anissa Besbes, Redouane Djelti*
	Probing the Electronic, Optical, and Transport Properties of Halide Double Perovskites $Cs_2AgSb(Cl,Br)_6$ for Thermoelectric Applications *Hamza Kerrai*[*], *Ahmed Zaim, Mohamed Kerouad*
	Computational Insights into the Superior Efficiency of $K_2(Se,Te)Br_6$ Double Halide Perovskite Solar Cells *Hamza Kerrai*[*], *Ahmed Zaim, Mohamed Kerouad*
	An Introduction to Carbon Nanotubes and Their Production Processes *Maryam Abdolahpour Salari*[*], *Gunay Merhan Muglu, Volkan Senay, Sevda Saritas*
	Analyzing the Physical Properties of a Tenary Half-Heusler RhTiP for Industrial Applications *Aya Righi*[*], *Fatima Bendahma, Abess Labdelli, Khedidja Mechehoud, Mohamed Mana*
	QCD Phase Diagram with a Crossover and a First Order Phase Transition *Mohamed Amine Lakehal*[*], *A. Ait El Djoudi*
	Electronic and Nonlinear Optical Properties of (E)-N'-(3-Methoxybenzylidene)-2-(Quinolin-8-Yloxy) Acetohydrazide: A Comprehensive Computational Study *Mohammed Hadj Mortada Belhachemi*[*], *Zohra Douaa Benyahlou, Amine Ould Rabah, Kheira Hammou*
16:20 – 16:30	Break

Online Session – 16 (in English)
Head of Session: Dr. Mohd Hafizuddin Ab Ghani

	Theoretical Investigation of MoSSe Janus as Promising Anode Material for Libs Using First-Principles Calculations *Malak Bounbaa*[*], *Mohamed Khuili, Nejma Fazouan, El Houssine Atmani, Isam Allaoui*
	Investigating the Behaviour of Some Response Functions Characterising the Thermal QCD Deconfinement Phase Transition in a Finite Volume for Several Hadronic and QGP Systems *Rokaya Djida*[*], *Amal Ait El Djoudi*
16:30 – 17:50	Cauchy Wavelet Application to Detect Multi-Scale Structures of the Turbulent Flow *Kenza Zaibak*[*], *Nora Nait Bouda, Fawzia Mekideche-Chafa*
	Arbitrary Amplitude Solitary Waves in a Degenerate Plasma System *Muhammad Asaduzzaman*[*]
	Elimination of Indigenous Dairy Biofilms from Milk Reception Lines by Implementing an Appropriate Cleaning-in-Place CIP Protocol *Dahou Abdelkader El Amine*[*], *Tahlaiti Hafida, Medjahed Mostefa, Seddar Yagoub*

	Fatima, Doubbi Bounouaa Lahcen, Benabdelmoumene Djilali, Doukani Koula
	Evaluation of the Suitability of Bovine Milk from the Experimental Farm for Industrial Processing *Doubbi Bounoua Lahcen, Dahou Abdelkader El Amine[*], Seddar Yagob Fatma, Tahlaiti Hafida, Bounaama Khalil, Homrani Abdelkader*
	Food Packaging Reinforced Active Agent MOF-Based and Their Synthesis Methods *Mohd Hafizuddin Ab Ghani[*], Ismayadi Ismail, Rosnah Nawang, Intan Helina Hasan, Juraina Md Yusof, Che Azurahanim Che Abdullah, Siti Hajar Othman, Josephine Liew Ying Chyi, Umer Rashid, Nishata Royan Rajendran Royan, Ruey Shan Chen, Chawalit Ngamcharussrivichai*
	Processing and Conservation of Mussels from the Ain Temouchent Region (West Algerian) *Fatima Belhacini[*], Arifa Chegrouche, Dinedane Hadjer Amel*
17:50 – 18:00	Break
Online Session – 17 (in English) Head of Session: Asst. Prof. Dr. Galip Yilmaz
18:00 – 19:20	Design and Project Management for Unmanned Aerial Vehicles *Ahmed Khaled Salaheldin Ali[*], Onur Tuncer*
	Enhancing Urban Resilience: Evaluating Earthquake Park Design in Kahramanmaras, Turkey *Sinan Kordon[*], Aliye Kaya, Dilan Tokgoz, Meryem Yilmaz, Ozge Akilli*
	Analysis of the Flow Through a Contoured Nozzle Using CFD Sabrina Benlembarek[*], Kamel Talbi
	Balancing Techniques Comparison on an Inbalanced Payment Company Dataset *Mehmet Sukru Aygun[*], Mehmet Fatih Akay*
	Optimization of Incremental Conductance Using Fuzzy Logic Control for MPPT of a Photovoltaic Stand-Alone System *Beddi Abdelraouf[*], Hicham Serhoud, Nacer Hebbir, Zoubir Aoulmi, Moussa Attia*
	Enhancing Impact Resistance of Engineering Solutions Through Multiscale Structural Optimization *Ilhan Taber[*], Ramazan Karakuzu*
	Comparative Study of Empirical Expressions for Modulus of Soil Reaction and Pipe Displacement in Soil-Pipe System *Chahrazad Bacha[*], Meriem Zoutat, Mohamed Mekki*
	Nature-Based Solutions for Flood and Water Management in Urban Areas: Global Practices *Emine Keles Ozgenc[*]*

19:20 – 19:30	Break

<table>
<tr><td colspan="2" align="center">Online Session – 18 (in English)
Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp</td></tr>
<tr><td rowspan="8">19:30 – 20:50</td><td>Differential Geometry and Naturals Metrics
<i>Chaoui Saadia</i>[*]</td></tr>
<tr><td>New Conjugate Gradient Method Using SWP Line search for Nonlinear Unconstrained Optimization
<i>Souli Choubeila</i>[*], <i>Ziadi Raouf</i></td></tr>
<tr><td>A Stochastic BFGS Algorithm for Bound-Constrained Global Optimization
<i>Raouf Ziadi</i>[*], <i>Bencherif Madani Abdellatif</i></td></tr>
<tr><td>Characterizations of Weighted Triebel-Lizorkin Spaces Associated with Hermite Operators
<i>Chichoune Romaissa</i>[*], <i>Saibi Khedoudj, Mokhtari Zouhir</i></td></tr>
<tr><td>On a Sojourn Time Formula and Applications in Engineering and Simulation
<i>Abdelatif Bencherif Madani</i>[*]</td></tr>
<tr><td>Magnetized Fe_3O_4/$CoFe_2O_4$ Hybrid Ferrofluid with Magnetic Field-Dependent Viscosity over a Slip-Stretching Sheet
<i>Nur Ilyana Kamis</i>[*], <i>Noraihan Afiqah Rawi, Lim Yeou Jiann, Sharidan Shafie</i></td></tr>
<tr><td>An Efficient Numerical Approach for Fractional Integro-Differential Equations of Fredholm Type
<i>Nouria Arar</i>[*], <i>Zineb Laouar</i></td></tr>
<tr><td>Solutions of Linear Dynamic Systems with the Help of Eigenvalue - Eigenvector
<i>Ramazan Simsek</i>[*]</td></tr>
</table>

Virtual Hall 2

<table>
<tr><td colspan="2" align="center">Online Session – 19 (in English)
Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin</td></tr>
<tr><td rowspan="4">09:00 – 10:20</td><td>Boosting Communication Efficiency: WDM-Distributed Compensation Fiber Integration in Optical Systems
<i>Hadj Abdelkader Benghenia</i>[*], <i>Hadj Ali Bakir</i></td></tr>
<tr><td>Maximizing Solar Installation Power Using Fuzzy Control
<i>Amel Ourici</i>[*], <i>Abderaouf Bahi</i></td></tr>
<tr><td>Improving the Electrical Properties of the Smart Temperature Sensor Using CMOS (Si and SiC) Technology
<i>Mourad Hebali</i>[*], <i>Benaoumeur Ibari, Menouer Bennaoum, Hocine Abdelhak Azzeddine, Abdelkader Maachou, Mohammed El-Amine Beyour</i></td></tr>
<tr><td>An Overview of Medium Access Control Protocols for Terrestrial Wireless Sensor Networks</td></tr>
</table>

	Selahattin Kosunalp[*]
	Silicon-Integrated GaAs Single-Junction Solar Cell: Design and Performance Improvement *Mohammed El-Amine Beyour*[*], *Mourad Hebali, Benaoumeur Ibari, Menouer Bennaoum, Hocine Abdelhak Azzeddine, Abdelkader Maachou*
	Microstrip Patch Antenna with Triple-Band Using Metamaterial *Hadda Ouguissi, Nail Alaoui*[*]
	Dipole Antenna Based on Metamaterials for RFID *Hadda Ouguissi, Nail Alaoui*[*]
	Machine Learning Based Diamond Cut Quality Classification *Mustafa Alptekin Engin*[*], *Latif Akcay*
10:20 – 10:30	Break
Online Session – 20 (in English) Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin	
10:30 – 11:50	Study of New Model of SBD Structure Proposed to Elaborate Mixer Design *Reguieg Khadidja*[*], *Souar Zeggai, Hebali Mourad*
	Investigation of the Electrical Behavior of DG-MOSFET Transistors in Silicon Carbide Using Series and Parallel Equivalent Electronic Circuits *Mourad Hebali*[*], *Benaoumeur Ibari, Hocine Abdelhak Azzeddine, Bennaoum Menouer, Ibrahim Farouk Bouguenna, Mohammed El-Amine Beyour*
	Towards Service Discovery and Selection Approaches in IoT Applications *Selahattin Kosunalp*[*], *Yunus Kaya*
	Design of a New Multiband Pentagon Patch Antenna Array *Khouloud Mohammed Belhadj*[*], *Souheyla Ferouani, Djalal Ziani Kerarti*
	Energy Distribution Analysis Using DWT for the Airgap Eccentricity in Induction Machine *Moutaz Bellah Bentrad*[*], *Adel Ghoggal, Tahar Bahi*
	Advanced Control Strategy for Grid-Connected Voltage Source Inverters with LCL Filters Dedicated to Renewable Energy Grid Integration Systems *Houssam Eddine Mansouri*[*], *Billel Talbi, Idris Messaoudene, Moussa Abderrahim Mehiris*
	Efficient QRS Complex Extraction from ECG Signals Using DWT *Hadda Ouguissi, Nail Alaoui*[*]
	Microstrip Antenna Design for 5G Communication *Hadda Ouguissi, Nail Alaoui*[*]
11:50 – 12:00	Break
Online Session – 21 (in English)	

Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin
12:00 – 13:20	Removal of Polluant by Bacteria Isolated from Oilfield via Biosurfactant Production *Nesrine Lenchi*[*], *Wissam Ahmedi, Salima Kebbouche-Gana*
	Investigating the Modulatory Effects of Phenolic-Rich Extract on Pancreatic β-Cell Gene Expression in Oxidative Stress Conditions *Anfel Benmanseur*[*], *Fatma Zahra Hab, Rania Derguine, Rechda Amel Tachour, Mustapha Tacherfiout, Bachra Khettal, Abdelmalek Rezgui, Widad Sobhi*
	An Investigation into the Impact of Tannic Acid and Gallic Acid on the Surface Characteristics of 3D-Printed Polylactic Acid in Relation to Adhesion of Pseudomonas Aeruginosa and Staphylococcus Aureus *Badr Errabiti*[*], *Amal El Aabedy, Sara Er-Rahmani, Soumya El Abed, Saad Ibnsouda Koraichi*
	Exploring the Inhibitory Effect of Alpha-Hederin, the Active Saponin of *Nigella Sativa*, Against the Main Protease M[pro] of SARS-CoV-2 *Selma Houchi*[*], *Seoussen Kada, Hanane Khither*
	Thymol's Protective Effects on CCl4-Induced Oxidative Stress in Female Rats: Assessing Hepatic and Plasmatic Markers *Hanane Khither*[*], *Soraya Madoui, Selma Houchi, Asma Mosbah*
	Antioxidant Activity, Total Phenolic, and Total Flavonoid Contents of Crude Extract of *Inula Viscosa*'s Leaves *Nadjat Azzi*[*], *Younes Douffa, Nour El Houda Belabas, Haifaa Laroui, Thoraya Guemmaz, Fatima Zerargui, Karima Saffidine, Abderrahmane Baghiani*
	Experimental Study on the Healing Effect of the Crude Extract of the Aerial Part of *Cytisus Triflorus* on Skin Wounds *Soraya Madoui*[*], *Hanane Khither, Karima Madoui, Noureddine Charef*
	Exploring Phenolic Composition and Scavenging Effects Against Reactive Oxygen Species of Nettle Crude Extract *Hamza Kemchache*[*], *Khalil Kaouane, Ayoub Bekka, Mondher Fradjia, Sabrina Manel Kaddour, Rayene Bouaita, Noureddine Charef, Soraya Madoui, Hanane Khither*
13:20 – 13:30	Break
Online Session – 22 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
13:30 – 14:50	Antioxidative Characteristics of Aqueous and Ethanol Extracts of *Anethum Graveolens* L. Seeds *Nour El Houda Belabas*[*], *Nadjat Azzi, Younes Douffa, Haifaa Laroui, Thoraya Guemmaz, Fatima Zerargui, Karima Saffidinne, Abderrahmane Baghiani*
	Evaluation of In Vitro Antioxidant Activity of Natural Compounds in Atriplex

	Halimus Leaf Extract Using Hydrogen Peroxide and Hydroxyl Radical Assays *Khalil Kaouane*[*]*, Hamza Kemchache, Ayoub Bekka, Mondher Fradjia, Rayene Bouaita, Sabrina Manel Kaddour, Noureddine Charef, Hanane Khither, Soraya Madoui*
	In Vitro Assessment of Biological Activity in Elaeagnaceae Leafs *Rayene Bouaita*[*]*, Randa Djemil, Samira Bouhalit, Saber Boutella, Khalil Kaouane, Hamza Kemchache*
	Evaluation of the Bio-Remedial Effect of Bacillus Atrophaeus to Treat Soil Polluted by Heavy Metals *Mondher Fradjia*[*]*, Rima Belattar, Abdelhakim Sellal, Wissam Nour Elhouda Ahmedi, Hamza Kemchache, Khalil Kaouane, Nora Laouicha, Amor Benchikh*
	Phytotherapy Study of Medicinal Plants Used in the Northern Region of the Wilaya of Setif (Ain El Kebira) *Nouioua Wafa*[*]*, Madoui Soraya*
	ABTS Radical Scavenging Activity and Ferrous Chelating Ability of Ethyl Acetate Extract of Pistacia Atlantica Seeds *Younes Douffa*[*]*, Nadjat Azzi, Nour El Houda Belabas, Haifaa Laroui, Thoraya Guemmaz, Karima Saffidine, Fatima Zerargui, Abderahmane Baghiani*
	Phytochemical Analysis and Biological Activities of Essential Oil and Lavandula Stoechas Harvested in Algeria *Amina Benazzouz-Touami*[*]*, Driffa Bouchene, Nabila Iaouadaren*
	Tolerance Mechanism Study to Polluted Ecosystems of Bioremediants *Laouicha Nora*[*]*, Sellal Abdelhakim, Bencheikh Amor, Belattar Rima, Fradjia Mondher, Ahmedi Wissam Nourelhouda*
14:50 – 15:00	Break
	Online Session – 23 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
15:00 – 16:20	Evaluation of Antibacterial Activity of *Thymus Vulgaris* Extracts *Mohamed Khiari*[*]*, Zine Kechrid*
	Evaluation of Antibiotic Resistance Pattern and Biofilm Production in Vaginal Isolates in Women *Anfal Kara*[*]*, Feryal Belfihadj, Naouel Boussoualim, Meriem Elkolli*
	Evaluation of Antioxidant and Antibacterial Activities of *Ruta Montana* Crude Extract from the Mila Region *Zineb Bouamrane*[*]*, Saber Boutellaa, Hakima Belattar, Mouna Menakh, Nedjla Derbal*
	Evaluation of Antibiotic Resistance in Enterobacteria Isolated from Hospital Cockroaches *Ben Djaballah Wafa*[*]*, Bouguenoun Widad, Trabsa Hayat, Kebkoub Narimane,*

	Serraye Fatima
	G-Protein Coupled Estrogen Receptor Expression in Estrogen Receptor Alpha (ERα) Negative Breast Cancer Tissues of Algerian Patients *Yasmine Mostaphaoui*[*]*, Rafik Menad, Elara N'tima Moudilou, Chahla Bencharif*
	Exploring the Insecticidal Potency and Growth Inhibition Effect of *Pistacia Lentiscus* and *Lauris Nobilis* Oils and Extracts on *Culex Pipiens* (Diptera: Culicidae) Larvae *Menakh Mouna*[*]*, Saber Boutellaa, Zineb Bouamrane*
	Unlocking the Power of Nigella: Exploring the Antioxidant Abilities of This Ancient Medicinal Plant *Dalia Nafir, Noureddine Belattar*[*]
	The Biological Activity of the Ethanolic Extract from Bee Pollen *Oumamar Loubna*[*]*, Soltani El Khamsa, Khalil Kaouane, Ayoub Bekka, Hamza Kemchache*
16:20 – 16:30	Break

<div align="center">

Online Session – 24 (in English)
Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp

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	Tumor Microenvironment in Hepatocellular Carcinoma: A Comprehensive Review *Yusra Zarlashat*[*]*, Hassan Mushtaq*
	Ecological Classification of Soil-Plant Cover Areas Contaminated by Drilling and Mineralized Waters in the Siyazan Region (Azerbaijan) *Sanubar Aslanova*[*]
	The Use of Pectin Extracted from Lemon Bark as an Encapsulation Matrix *Djerri Rofia*[*]*, Himed Louiza, Barkat Malika*
	Utilizing *Aspergillus Oryzae* for Expression of SARS-CoV-2 Spike Protein Domains: Insights into COVID-19 Research *Elif Karaman*[*]*, Serdar Uysal*
16:30 – 17:50	Indirect Effects of Microplastics on Climate Change and Community-Based Solutions to Atmospheric Microplastic Pollution *Enes Ozgenc*[*]*, Gunay Yildiz Tore*
	In Silico Analysis of Phytochemicals from Selected Medicinal Plant Species to Inhibit Alpha-Glucosidase as a Receptor Protein to Treat Type-2 Diabetes Mellitus *Ghulam Mustafa*[*]*, Shoukat Hussain, Anas Bilal, Rawaba Arif*
	Biotin-Functionalized Nanoparticle Systems for Targeted Lung Cancer Therapy *Fatma Sayan Poyraz*[*]*, Banu Mansuroglu*
	Epidemiological, Immunohistochemical, and Molecular Study of Breast Cancer in

	Young Algerian Patients from "Bejaia" *Sara Ouari*[*], *Hania Ouahmed-Boudaoud, Chahla Bencharif, Chahira Mazouzi*
17:50 – 18:00	Break
	Online Session – 25 (in English) Head of Session: Asst. Prof. Dr. Sebahat Oztekin
18:00 – 19:20	Microencapsulation: A Way to Preserve Bioactive Compounds from Food Waste for Novel Food Formulations – A Review *Tusneem Kausar*[*], *Ashiq Hussain, Sobia Noreen*
	Estimation of Total Phenolic Compounds in Three Date Fruits Cultivars from Biskra (Algeria) *Amel Barkat*[*], *Hayat Trabsa, Chaima Mezghiche, Yasmine Mabrouka Mizab, Abderahmane Baghiani, Abdelnacer Agli*
	Estimation of Total Flavonoids Compounds in Three Date Fruits Cultivars from Biskra (Algeria) *Amel Barkat*[*], *Hayat Trabsa, Chaima Mezghiche, Yasmine Mabrouka Mizab, Abderahmane Baghiani, Abdelnacer Agli*
	Antibacterial Activity of Garlic (*Allium Sativum*) Against *Staphylococcus* Strains Isolated from Nile Tilapia (*Oreochromis Niloticus*) *Romeissa Derdachi*[*], *Sabrine Boucetta*
	Health and Nutritional Complications in Newborns of Diabetic Mothers *Salima Taleb*[*], *Bouthaina Brakni, Fairouz Dilmi*
	Assessment of Antimicrobial Activity of Lactic Acid Bacteria Isolated From Artisanal Dairy Products Against *Escherichia Coli* ATCC 25922 and *Staphylococcus Aureus* ATCC 29213 *Roumaissaa Belkacem*[*], *Qada Benameur*
	Utilizing Lentil Flour in the Gluten-Free Cake Formulations *Sebahat Oztekin*[*]
	Potent Inhibitory and Stimulatory Effects of Various Metal Ions on Polyphenol Oxidase Activity Extracted from Algerian Desert Truffles *Abdelhafid Bouremana*[*], *Fatima El-Houaria Zitouni-Haouar*
19:20 – 19:30	Break
	Online Session – 26 (in English) Head of Session: Dr. Nurhafizah Hasim
19:30 – 20:50	Experimental Measurement on a Shaking Table of the Dynamic Characteristics of Structures *Abdellatif Bentifour, Abderaouf Daci, Nassima Benmansour, Rachid Derbal*[*]
	Evaluation of the Dynamic Characteristics of a 3DOF Reduced Scale Model Using RISAM Shaking Table

	Abderaouf Daci, Abdellatif Bentifour, Nassima Benmansour, Rachid Derbal[*]
	Evaluation of the Carbonation of Concrete with the Addition of Pozzolana and Marble Powder Under the Effect of Temperature *Ahlem Houaria Mohammed Belhadj*[*], *Rachid Derbal*
	Characterization and Application of Sewage Sludge in Cement Products *Mahmoud Bouslah*[*], *Mekki Maza, Zine El Abidine Rahmouni, Nadia Tebbal*
	The Impact of Surface Roughness on Energy Dissipation and Dimensions of Non-Rectangular Stilling Basins: An Experimental Investigation for Sustainable Environmental Practices *Seyfedine Benabid*[*], *Sonia Cherhabil, Sid Ali Dajfri, Taqiyeddine Assas*
	Development of Geopolymer Binders Based on Industrial Waste with Different Treatment Methods: A Review *Hanane Zadri*[*], *Nadia Tebbal, Zine El Abidine Rahmouni, Mekki Maza*
	Valorization of Mining Waste into Construction Materials: Literature Review *Medjida Touahria*[*], *Nadia Tebbal, Zine El Abidine Rahmouni, Mekki Maza*
	The Effect of Limestone on Virgin Cork Concrete Mechanical Properties and Durability *Samah Hariz*[*], *Fouad Ghomari, Brahim Touil*

Virtual Hall 3

	Online Session – 27 (in Turkish) Head of Session: Asst. Prof. Dr. Ramazan Simsek
09:00 – 10:20	Investigation of the Microstructure and Hardness Properties of Fe Based High Entropy Alloys Produced by Powder Metallurgy Method *Murat Bodur*, *M. Emre Turan, Yavuz Sun*[*]
	Investigation of Delamination Factor in Bi-Directional Drilling of Glass Fiber Reinforced Plastic Materials *Erhan Karatas, Oguz Kocar*[*], *Nurettin Baran Zulfikar*, *Nergizhan Anac, Furkan Parmaksiz*
	Using Shape Memory Alloys for Energy Harvesting Systems *Gokhan Kilic*[*], *Omar Abboosh*
	Analysis of Performance Values of Stabilizer Link Parts Produced by Additive Manufacturing Method in Automotive Suspension Systems *Sevilay Sagtan*[*], *Burak Ates*
	Gradient Graphene Sponge for Solar Steam Generation Applications *Kader Dagci Kiransan*[*], *Ezgi Topcu, Elif Ercarikci*
	Investigation of the Effect of Current Density on Ammonia Formation from Ammonium Chloride and Sodium Chloride in Two-Compartment Bipolar Membrane Electrodialysis

	Duygu Adiguzel[*], *Fatemeh Abbasi, Osman Nuri Ata*
	Evaluating the Pb (II) Removal Efficiency of *Prunus Laurocerasus*: Isotherms, Kinetic and Thermodynamic Studies *Zehra Seba Keskin*[*], *Zeynep Mine Senol*
	Upgraded Bio-Oil with Co-Pyrolysis of Spruce Sawdust with Glycerol *Ahmet Rasim Girisen*[*], *Hakan Ozcan*
10:20 – 10:30	Break

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Online Session – 28 (in Turkish)
Head of Session: Asst. Prof. Dr. Hamdullah Ozturk

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10:30 – 11:50	Comparative Classification Performance Evaluation of Machine Learning and Deep Learning Techniques for BreakHis, Wisconsin, and DDSM Breast Cancer Datasets *Oben Adak*[*], *Cigdem Inan Aci, Dogu Ilmak*
	A Review on Data Visualization: Usage Fields, Importance, and Examples *Durmus Ozkan Sahin*[*]
	Recognition of Human Activities Using Accelerometer and Gyroscope Sensors in Mobile Devices *Merve Buluslu*[*], *Adem Korkmaz*
	A New Metaheuristic Algorithm for Optimization Problem: Artificial Circulation System Algorithm *Nermin Ozcan*[*], *Semih Utku*
	Development of an Artificial Intelligence Supported Identity Verification System (KYC) *Ceren Goksu*[*], *Kerim Guler, Duygu Keles, Halil Sahin*
	Breast Cancer Prediction Using Machine Learning Algorithms *Gokberk Kozak*[*], *Erol Ozcekic*
	A Drum Wheel Bearing Design in Tumble Dryer *Abdullah Berk Ince*[*], *Cevdet Caner Akgun*
	Examining the Trend of MOOC Related Studies with Data Mining: Voyant Analysist *Bunyami Kayali*[*], *Mehmet Yavuz*
11:50 – 12:00	Break

<div align="center">

Online Session – 29 (in Turkish)
Head of Session: Asst. Prof. Dr. Ramazan Simsek

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12:00 – 13:20	A Research on Staling in Wafers *Sibel Koca Cetinkaya, Amine Beyza Ozata*[*], *Ozge Akgul, Begum Ceren Memecan*
	Grapevine Leaf Powder as a Functional Food Additive: Physicochemical and Bioactive Properties

	Mehmet Ali Salik[*]
	A Popular Probiotic Dairy Product-Kefir: Overview on Functional Mechanism of Action and Plant-Based Fermented Beverages *Mehmet Ali Salik*[*]
	Cytocompatibility of PVA/Chitosan Electrospun Scaffold Loaded with Antioxidant Amino Acid on Fibroblast and Neuroblastoma Cells *Betul Mutlu*[*], *Cem Bulent Ustundag, Rabia Cakir*
	Characterization and Study of the *In Vitro* Effects of Polysaccharide-Based Nanofibers Obtained Using the Method of Coaxial Electrospinning to Improve Tympanic Membrane Perforations *Busra Akgul*[*], *Cansu Gulcan, Selay Tornaci, Merve Erginer, Ebru Toksoy Oner, Emrah Sefik Abamor, Serap Acar, Adil M. Allahverdiyev*
	Statistical Investigation of Surface Modification Polymerization Methods in Global and Turkish Scale *Nursel Karaoglan*[*]
	Determination of Thiamethoxam with Molecular Imprinted Affinity Monolithic Column *Ilgim Gokturk*[*]
	Determination of Metalaxyl Using SPR Sensors *Kivilcim Caktu Guler*[*]
13:20 – 13:30	Break
Online Session – 30 (in Turkish) Head of Session: Asst. Prof. Dr. Hamdullah Ozturk	
13:30 – 14:50	Parameter Extraction of Proton Exchange Membrane Fuel Cell Using Metaheuristic Optimization Techniques: Evaluation and Comparison *Huseyin Bakir*[*]
	Classification of Coconut Tree Diseases Using GoogleNet for Agriculture Management *Ebru Ergun*[*]
	A Digital Predictive Peak Current Mode Control for Power Factor Correction *Ahmet Talha Dudak*[*], *Ahmet Faruk Bakan*
	A Low-Cost Cloud-Based Wearable Accelerometer Data Recording System *Ayse Zehra Caglar*, *Cagri Gul*, *Sabri Altunkaya**
	Nanobioelectronics Used in Targeted Drug Delivery Systems *Gencay Sevim*[*], *Gulay Buyukkoroglu*
	A Satellite-Based Augmentation System for Turkey to Enhance Navigation Capabilities *Ibrahim Oz**

	Optimized Performance Compact Wide-Band Microstrip Filter-Antenna for 4G Applications *Husain Ali*[*], *Ugur Cem Hasar*
	Simplified Reference-Plane-Invariant Method for Permittivity Extraction of Low-Loss Dielectrics via One-Port Waveguide Measurements *Ugur Cem Hasar*[*], *Husain Ali*

Sunday, July 21, 2024

Online Sessions

Virtual Hall 1

	Online Session – 31 (in English) Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin
09:00 – 10:20	A Theoretical Comparative Study of the 1,3-Dipolar Cycloaddition Reaction of Some Alkenes with Nitrone *Boulanouar Messaoudi*[*]
	A Kinetic Mechanism Study of the Reaction of Triplet Oxygen O(^{3}P) with the But-3-Enal Aldehyde *Boulanouar Messaoudi*[*]
	Effect of Si^{4+} and Ga^{3+} Co-Doping on Structure and Ionic Conductivity of BiSiGaVOx System *Abdelmajid Agnaou*[*], *Wafaa Mhaira, Rachida Essalim, Fabrice Mauvy, Maati Alga, Mohamed Zamama, Abdelaziz Ammar*
	Thermodynamic Properties at Infinite Dilution of Hydrocarbons in Ionic Liquids *Fadhila Rabhi*[*], *Hocine Sifaoui, Fabrice Mutelet*
	Modification of Polycaprolactone Through Grafting with an Aromatic Acid: Synthesis and Characterization *Nacera Leila Belkhir*[*], *Mohammed Amin Bezzekhami, Kaouter Bentedlaouti, Mahmoud Belalia, Amine Harrane*
	Synthesis of New Azomethines Based on Vitamin B6 *Samira Ismayilova*[*], *Alakbar Huseynzada, Ulviyya Hasanova, Aygun Israyilova*
	Synthesis of New Heterocyclic Nitrogen Derivatives Derived from Pyridopyrazine *Mohamed El Yaqoubi*[*], *Yousra Seqqat, Mouad Lahyaoui, Houda Lamssane, Fouad Chahdi Ouazzani, Youssef Kandri Rodi*
	Synthesis and Characterization of Layered Double Hydroxides with Different Cations (Mg, Cu, Al) and EDTA Intrcalated *Fadhila Bouhella*[*], *Boukoussa Bouhadjar, Abdelkader Elaziouti, Hadjer Addou, Nadjia Belmehdi*
10:20 – 10:30	Break

Online Session – 32 (in English)	
Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin	
10:30 – 11:50	A Chemotherapeutic Supplement, Green Synthesized Silver Nanoparticles Using *Papaver Rhoeas* for Human Pancreatic Cancer Treatment *Cigdem Dikbas*[*], *Muberra Andac*
	Theoretical Study, Intermolecular Charge Transfer, MEP, and Nonlinear Optics Application for an Organic Molecule *Zohra Douaa Benyahlou*[*], *Mohammed Hadj Mortada Belhachemi, Salem Yahiaoui, Kheira Hammou, Abdelkader Chouaih*
	A simple and Efficient One-Pot Synthesis of Hantzsch 1,4-Dihydropyridines Using Heteroplyacid Catalyst Under Mild Condition *Fella Gaad*[*], *Sabrina Halit, Malika Makhloufi, Tassadit Mazari, Marchal Catherine Roch*
	Nickel Catalyst for Isoxazol Synthesis *Benali Belgharri*[*], *Amina Berrichi, Sarah Abbou, Zahra Hamiani, Redouane Bachir*
	Phosphotungstic Heteropolyacid Based New Hybrid Materials for Biomass Recovery *Feriel Toumi*[*], *Yasmina Idrissou, Tassadit Mazari, Rabia Cherifa, Anne Ponchel, Kania Nicolas*
	Semisynthesis of New Isoxazolines from (E)-α-Atlantone: Experimental and Theoretical Investigations *Houria Raji, Rida Nejjari, Ahmed Chekroun, Abdellah Zeroual*[*], *Noureddine Mazoir, Ahmed Benharref*
	Study of Properties of Tin Oxide Thin Films Elaborated by USP Method *Sabrina Roguai*[*], *Abdelkader Djelloul*
	Synthesis of CuO Nps for Photocatalytic Applications *Sabrina Roguai*[*], *Abdelkader Djelloul*
11:50 – 12:00	Break
Online Session – 33 (in English)	
Head of Session: Asst. Prof. Dr. Mustafa Alptekin Engin	
12:00 – 13:20	Photothermal Activity and *In Vitro* Evaluation of Gold Nanorods for Potential Therapeutic Application in Cutaneous Leishmaniasis Treatment *Magalí R. Di Meglio*[*], *Cristian Lillo, Jorge Montanari*
	Valuation of Essential Oils from Aleppo Pine (*Pinus Halepensis* Mill.) Harvested in Two Regions of Algeria *Nacira Amara*[*], *Mohamed Kouider Amar, SabrinaAmara, Nadjet Harazi*
	Natural Antifungal Agents as Alternatives for *Alternaria Alternata* Control

	Teodora Kukrić[*], Renata Iličić, Boris Popović
	Some Derivatives of 3,4-Di-Hydropyrimidin-2(1H)-Thiones Derivatives: Synthesis, Biological Assessment, ADMET, and Drug-Likeness Analysis *Noura Kichou[*], Nabila Guechtouli, Manel Taferguennit*
	Hybrid Electrode Based on Ionic Liquid and Pt and Pd Nano-Clusters: For the Hydrogen Evolution Reaction (HER) Catalysis *Hocine Moussouni, Mourad Mechouet[*], Jalal Ghilane*
	Evaluation of the Antidiabetic Activity of Extracts and Essential Oil of Myrtus Communis Harvested in Algeria *Melissa Bessaci[*], Amina Benazzouz-Touami*
	The Environmentally Friendly Synthesis of Amide Based on Triethylenetetramine *Fargana Alizadeh[*], Alakbar Huseynzada, Aygun Israyilova, Ulviyya Yolchuyeva, Ulviyya Hasanova, Eldar Gasimov, Goncha Eyvazova, Fuad Rzayev, Orkhan Isayev, Aida Ahmadova, Elshan Aliyev*
	Synthesis and Biological Evaluation of Amide Derivative as Novel Antibacterial Agent *Fargana Alizadeh[*], Alakbar Huseynzada, Aygun Israyilova, Ulviyya Yolchuyeva, Ulviyya Hasanova, Eldar Gasimov, Goncha Eyvazova, Fuad Rzayev, Orkhan Isayev, Aida Ahmadova, Elshan Aliyev*
13:20 – 13:30	Break
Online Session – 34 (in English) Head of Session: Dr. Intan Helina Hasan
13:30 – 14:50	Examining How CeO_2 Addition Affects the Microstructure and Wear of Cu-Al-Mn-Fe Shape Memory Alloy *Fatih Dogan[*]*
	Catalytic Oxidation of Lignocellulosic Biomass to Biofuels Using Reusable Mixed Oxide as a Catalyst in a Green Solvent *Mona Benali[*], Abdallah Oumekki, Jamil Toyir*
	Thermal Behavior Kinetics of Macromolecular Nickel (II) complex using Thermogravimetric Analysis (TG/DTG) *Djouhra Aggoun[*], Yasmina Ouennoughi*
	Synthesis, Spectral Approach and Electrochemical Properties of Nickel (II) and Copper (II) Organometallic Schiff Base Complexes *Yasmina Ouennoughi, Djouhra Aggoun[*]*
	Bibliometric Analysis of Research Trends in Additive Manufacturing in Metallurgical Engineering: A Scopus Database Study by Turkish Scholars *Oussama Zaidi[*]*
	Analysis of Electrical Field Norm Distribution at the Cathode/Arc Interface in TIG Welding

	Merazi Sayah[*], *Leila Belgacem*
	DFT Insights for Structural, Electronic, and Optical Characteristics of Cs_2XBr_6 (X = Pb, Sn) Double Perovskites for Low-Cost Solar Cell Applications *Rekia Larbi*[*], *Omar Sahnoun, Mohamed Sahnoun*
	Milling Effect on Structural, Microstructural, and Magnetic Properties of FeCo Bassed Alloy *Chaffia Djebbari*[*]
14:50 – 15:00	Break
Online Session – 35 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp	
15:00 – 16:20	Mapping of Tectonic Fractures in the Zat Region (Western High Atlas, Morocco): Using Remote Sensing and Structural Geology *Abdelfattah Aboulfaraj*[*], *Abdelhalim Tabit, Ahmed Algouti, Abdellah Algouti, Said Moujane, Saloua Agli*
	Achieving Full Control of Industrial Robot: Kinematic and Dynamic Modeling with FOPID Controller Tuned using GWO Approach *Benaoumeur Ibari*[*], *Mourad Hebali, Baghdadi Rezali, Omar Medjad, Menaouer Bennaoum, Hocine Abdelhak Azzedine, Abdelkader Maachou*
	Analysis of Technical Indicators in Cryptocurrency Market *Asli Boru Ipek*[*]
	IIoT as an Enabler for Data Analytics to Optimize Industrial Processes *Federico Walas Mateo*[*], *Andrés Redchuk*
	Q-Learning Enhanced Swarm-Based Algorithms for the 0-1 Knapsack Problem *Fehmi Burcin Ozsoydan*[*]
	Optimizing Risk Management Strategies in the Oil and Gas Industry: Dynamic Assessment and Modeling of Accident Consequences *Imane Aila*[*], *Samia Chettouh, Djamel Haddad*
	An Overview of Artificial Intelligence Techniques in Supply Chain Management: AI-Driven Strategies for Risk Management *Lara J. M. Naser*[*], *Seval Ene Yalcin*
	An Efficient Design of a Multi-Echelon and Multi-Product Supply Chain Network with Price-Sensitive Demands *Pinar Yunusoglu*[*], *Derya Eren Akyol, Fehmi Burcin Ozsoydan*
16:20 – 16:30	Break
Online Session – 36 (in English) Head of Session: Dr. Intan Helina Hasan	
16:30 – 17:50	Production of Graphene by Electrochemical Method and Energy Applications *Gulbahar Bilgic Tuzemen*[*]

	Advanced Hierarchical Control of Islanded AC Microgrids Using Modulated Model Predictive Control *Moussa Abderrahim Mehiris[*], Billel Talbi, Idris Messaoudene, Houssam Eddin Mansouri*
	Applications and Future of Unmanned Aerial Vehicles in the Field of Occupational Health and Safety *Mustafa Ozdemir[*]*
	Model Predictive Control of a PUC7-Based Power Factor Correction (PFC) Rectifier *Abdeslem Sahli[*], Billel Talbi, Abbes Kihal, Abdelbaset Laib, Abdelbasset Krama*
	Internal Parameters Identification of a Lithium-Ion Battery *Abderrahmane El Djallil Rabhi[*], Kamel Djamel Eddine Kerrouche*
	Influence of the Temperature on the Performance of Conventional Organic Solar Cells *Samia Moulebhar[*], Chahrazed Bendenia, Hanaa Merad-Dib, Souhila Bendenia, Sarra Merabet, Sid Ahmed Khantar*
	Optimization of Sabbath Mode Algorithms Used in Refrigerators *Mazlum Koray Dirican[*], Bulent Ozcan*
	A Numerical Study on the Aerodynamic Performance of the S1223 Airfoil in Low Reynolds Number Conditions *Onur Usta[*]*
17:50 – 18:00	Break
Online Session – 37 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
18:00 – 19:20	Simulation Study of Methylammonium Lead Iodide (CH3NH3PbI3)-Based Perovskite Solar Cell via Silvaco TCAD *Sid Ahmed Khantar[*], Chahrazed Bendeni, Souhila Bendenia, Hanaa Merad-Dib, Samia Moulebhar, Sarra Merabet*
	Optimization of Distributed Generations Placement and Sizing in Radial Distribution System Through ABC Algorithm *Badreddine Bendriss[*], Samir Sayah, Abdellatif Hamouda*
	Analysis of CdTe Solar Cell Performance Using SCAPS-1D Simulation as a Function of Various Buffer Layers *Merabet Sarra[*], Bendenia Chahrazed, Bendenia Souhila, Merad Hanae, Moulebhar Samia, Khantar Sid Ahmed*
	Advancements and Challenges of Photovoltaic Technology in Algeria's Desert *Chekal Affari Belhadj[*], Kahoul Nabil, Younes Mohammed, Daoudi Lina, Cheghib Hocine, Kherici Zoubida*

	Contribution to the Study of the Structural, Electronic, Optical, and Thermoelectric Properties of Heusler Alloys: A Material with Great Promise for the Future of Clean Energy *Khedidja Mechehoud*[*], *Mohamed Mana, Aya Righi, Mouffok Redouane Ghezzar, Fatima Bendahma, Bilel Achir*
	Energy Management of Photovoltaic/Battery Power Source for Stand-Alone Application *Lina Daoudi*[*], *Amel Ourici, Sihem Ghoudelbourg, Chekal Affari Belhadj*
	Enhancing Pressure Regulation in PEMFC: PID Conventional and PID Optimized by PSO in Response to Variable Load Demand *Sabah Kabache*[*], *Djelloul Reguieg, Essaid Bousbiat, Djamel Kendil*
	Enhanced Grid-Connected Photovoltaic System Using Five-Level Packed U Cell Topology and Advanced Control Approaches *Abderraouf Touafek*[*], *Fateh Krim, Hamza Afghoul, Billel Talbi*
19:20 – 19:30	Break
	Online Session – 38 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
19:30 – 20:50	Detection and Classification of Power Quality Disturbances Using Variational Mode Decomposition and Convolutional Neural Networks *Yahia Bousseloub*[*]
	Improving Solar Cell Efficiency: Exploring High-Performance Tandem Solar Cells Integrating Lead-Free Perovskite on Silicon (PVK/Si) via Design and Numerical Analysis *Hadjer Soufi*[*], *Abdelkader Bouhenna, Khadidja Rahmoun, Mohamed El Amine Slimani, Wissem Benaissa*
	Optimal Sizing of a Renewable Energy System for Sustainable Power and Hydrogen Generation Under the Northeastern Algerian Climate *Toufik Sebbagh*[*]
	Active and Reactive Power Control of a Grid-Connected Photovoltaic/Fuel Cell Hybrid System *Hocine Abdelhak Azzeddine*[*], *Mourad Hebali, Djamel-Eddine Chaouch, Benaoumeur Ibari, Menaouer Benaoum*
	Artificial Neural Network MPPT and Perturb and Observ MPPT Comparison *Hocine Abdelhak Azzeddine*[*], *Mourad Hebali, Djamel-Eddine Chaouch, Benaoumeur Ibari, Menaouer Benaoum*
	Optimization of Forced Circulation Solar Water Heating Systems for Enhanced Residential Energy Efficiency in Algeria *Ahmed Remlaoui*[*], *Driss Nehari*
	Investigation of the Effects of Silver Alloying and Transparent Conductive Oxide

	Layer Thickness on the Chalcopyrite Thin Film Solar Cells *Semih Agca***
	The Characteristics of an Organic Solar Cell at the Base of Polymeric Material *Chahrazed Bendenia**, Souhila Bendenia, Hanaa Merad-Dib, Samia Moulebhar, Sid Ahmed Khantar, Sarra Merabet*

Virtual Hall 2

Online Session – 39 (in English) Head of Session: Asst. Prof. Dr. Latif Akcay	
09:00 – 10:20	Microstrip Dipole Antenna Design for RFID Application *Hadda Ouguissi, <u>Nail Alaoui</u>**
	Chua Circuit and Its Behavior *Hadda Ouguissi, <u>Nail Alaoui</u>**
	Harmonic Forecasting for Future Offshore Wind Farm System in the Ayvalik Region of the North Aegean Sea by Using Deep Learning *<u>Alp Karadeniz</u>**
	Evaluation of Speech Encryption Algorithm Based on Chaotic Systems *<u>Salah Mokhnache</u>**, *Tewfik Bekkouche, Nacira Diffellah*
	A Design of AI-Based-Smart Glasses, Which Offer Navigation in Addition to Correcting Vision *<u>Syed Arif Kamal</u>**
	Impact of Image Size on Classification of Synthetically Generated Window and Door Images *<u>Safak Altay Acar</u>**
	Few-Shot and Zero-Shot Video Classification from Large Visual Models Perspective *<u>Erol Citak</u>**, *Mine Elif Karsligil*
	Machine Learning Techniques for Software Fault Prediction: A Distinctive Systematic Literature Review *<u>Aleena Rafique</u>**, *Sania Bhatti*
10:20 – 10:30	Break
Online Session – 40 (in English) Head of Session: Asst. Prof. Dr. Latif Akcay	
10:30 – 11:50	Principal Component Analysis for Database Scan Using Hierarchical KNN Model for Telecom Customer Segmentation *<u>Oluwasegun William Ijibadejo</u>**, *Saja Murtadha Hashim*
	Classification of Plant Leaves Using Vision Transformer Model *<u>Kadriye Karadeniz</u>**, *Kursat Mustafa Karaoglan*

	Artificial Intelligence and Statistics Based Call Count and Average Talk Time Prediction for Call Centers *Hasan Huseyin Yurdagul[*], Adem Seller, Idris Senocak, Hatice Ozdemir, Ceren Ulus, Mehmet Fatih Akay*
	Understanding Large Language Models in Cybersecurity Domain *Bugra Kurt[*], Aysu Irem Adem, Mahmut Furkan Bakal, Hussain Alburki, Arda Sezen*
	Enhancing FOPID Controller Performance in a 3-DOF Planar Manipulator *Benaoumeur Ibari[*], Mourad Hebali, Baghdadi Rezali, Omar Medjad, Menaouer Bennaoum, Hocine Abdelhak Azzedine, Abdelkader Maachou*
	Can NLP Combined with AI Prevent Language Extinction: A Case Study of Turkish *Anil Kus[*], Cigdem Inan Aci*
	CASTEP Investigation of Structural, Electronic, and Optical Properties of $CoSb_2O_6$ *Rania Charif[*], Rachid Makhloufi*
	Density Functional Theory (DFT) Investigation on the Structure and Electronic Properties of $ZnSb_2O_6$ *Rania Charif[*], Rachid Makhloufi*
11:50 – 12:00	Break
Online Session – 41 (in English) Head of Session: Asst. Prof. Dr. Latif Akcay
12:00 – 13:20	Effects of Instagram Weddings on Financially Strains, Local Traditions, Stress, Unrealistic Expectations, Privacy Issues, and Digital Disconnect Among Youth of Pakistan *Ghulam Safdar[*], Mahnoor Bibi*
	A Multifaceted Approach to Fault Diagnosis: Comparing Traditional and Deep Learning Methods *Ceren Asilkefeli[*], Fehmi Burcin Ozsoydan*
	Convulutional Neural Network Application for Control Chart Pattern Recognition *Ceren Asilkefeli[*], Fehmi Burcin Ozsoydan*
	Theoretical Investigations of Structural, Mechanical, and Elastic Properties of Novel Quaternary Heusler Alloys for Spin Polarized and Waste Heat Recycling Systems *Saadiya Benatmane[*]*
	Design of Image Processing Accelerators for TTA Processors *Latif Akcay[*], Tugce Demirkol*
	Enhancing the Performance of Twofish Cipher via Instruction Set Extension

	Latif Akcay[*], *Mustafa Alptekin Engin*
	Studying the Gender Gap in Advanced Digital Skills: Coding, Data Science, and Cybersecurity *Anxhela Ferhataj*[*], *Fatmir Memaj*
	resEARcher: A Sentence-Transformers Guided Tool for Visually Impaired Researchers *Eylul Hickiran, Emrah Inan*[*]
13:20 – 13:30	Break
Online Session – 42 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
13:30 – 14:50	Effect of the Smagorinski Coefficient in LES Turbulence Model at Lateral Diversions *Firat Gumgum*[*]
	Numerical Simulation of İnvestigating the Group Impact on Settlement in the Soft Soil Reinforced by Rigid İnclusions Under Seismic Loads *Oussama Benmerabet*[*], *Salah Messioud*
	Effect of Calcination Time and Temperature on the Pozzolanic Reactivity of Dam Sediment Slurry *Hanaa Kawther Terrah*[*], *Zine El Abidine Kameche, Hocine Siad, Mohamed Lachemi, Youcef Houmadi*
	Seismic Evaluation of an Existing Reinforced Concrete Building Based on FEMA P-2018 Methodology *Atakan Emin Aksoy*[*], *Sadik Can Girgin, Ozgur Bozdag*
	Experimental Study on the Mechanical Behaviour of Fiber Reinforced Sandy Soil *Wiam Khebizi*[*]
	Enhancing Self-Compacting Concrete with Recycled Fine Aggregates and Polyethylene Terephthalate Fibers *Meriem Bayah*[*], *Farid Debieb*
	Synergistic Effect of Ground Granulated Blast-Furnace Slag and Metakaolin on the Performance of Recycled Self-Compacting Concrete *Boubakeur Asmaa*[*], *Menadi Belkacem*
	Impact of Particle Diameter and Flow Velocity on Particle Transport Behaviour in Saturated Soil *Bouragaa Kheira*[*], *Bennacer Lyacine, Ahfir Nasre-Dine*
14:50 – 15:00	Break
Online Session – 43 (in English) Head of Session: Dr. Nurhafizah Hasim
15:00 – 16:20	Effect of the Use of Plastic Waste as Sand on Concrete Properties

	Wassila Boughamsa[*], Assia Abdelouahed, Houria Hebhoub, Wassila Mouats*
	Study of the Durability of Sand Concrete Based with Wood Ash (0.1%, 0.2%, and 0.3%) *Abdelouahed Assia*[*], Mouats Wassila, Houria Hebhoub, Wassila Boughamsa, Toufik Sebbagh*
	Comparative Study on the Valorization of Recycled Plastic Waste in the Formulation of Mortars *Houria Hebhoub*[*], Said Berdoudi, Wassila Boughamsa, Assia Abdelouahed, Wassila Mouats, Mohammed Ichem Benhalilou*
	Fresh and Hardened Properties and Durability of Self-Compacting Repair Mortar Made with Ceramic Powder as Cement Substitute *Messaouda Belouadah*[*], Zine El Abidine Rahmouni, NadiaTebbal*
	Enhancing Mechanical Strength of Concrete Through Polypropylene Fiber Incorporation *Shiraz Baloch*[*], Farah Naz, Umer Shahzad, Muhammad Abrar Faiz*
	Identifying the Main Predictors for Job Satisfaction of Construction Workers: Hierarchical Regression Approach *Gokhan Kazar*[*]
	A Comparative Study of Recycled Tire Chips, Jute Fiber, Polyester Fiber, Plastic Fiber Waste for Stabilizing Sand as Retaining Wall Backfill *Lina Zaidi*[*], Fatima Zohra Benamara, Aya Zeltni, Issam Mesbahi, Atmane Zeghdi*
	Thermal Deformation Model for Concrete Incorporating Silica Fume *Farid Bouziadi*[*], Touhami Tahenni, Abdelkader Haddi, Bensaid Boulekbache, Mostefa Hamrat*
16:20 – 16:30	Break
Online Session – 44 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
16:30 – 17:50	Static Analysis of Sigmoid Functionally Graded Plates (S-FGM) by Using Higher Order Shear Deformation Plate Theory *Habib Hebali*[*]
	Buckling response of Functionally Graded Plates Using a Novel Four Variable Refined Plate Theory *Habib Hebali*[*]
	Using PET Plastic Flakes and Waste Tire Chips as Wall Backfill *Fatima Zohra Benamara*[*], Chiraz Kechkar, Marwa Feligha, Ghania Nigri, Lina Zaidi, Aya Zeltni*
	Study of the Behavior of A Clay Embankment Reinforced with Recycled Waste *Aya Zeltni*[*], Fatima Zohra Benamara, Marwa Feligha, Lina Zaidi*

	Improvement in Structural Analysis: Creation of a Rectangular Finite Element for Analyzing Membrane Structures *Randa Bourenane*[*], *Sifeddine Abderrahmani, Abdulrahman Mutahar Al-Nadhari*
	Acid and Sulfate Resistance of Concrete Containing Recycled Aggregate: A Comprehensive Experimental Study *H. Alperen Bulut*[*]
	Effect of Granite Waste on Concrete Performance *Ramdane Rihab*[*], *Kherraf Leila*
	Numerical Study of the Seismic Bearing Capacity of Offshore Skirted Foundations on Sand Using Finite Element Limit Analysis *Alaoua Bouaicha*[*], *Abdeldjalil Chamekh, Nour El Islam Boumekik, Abdelhak Mabrouki*
17:50 – 18:00	Break
Online Session – 45 (in English) Head of Session: Dr. Nurhafizah Hasim
	Numerical Analysis of the Seismic Bearing Capacity of Strip Footings Near a Frictional Soil Slope *Abdeldjalil Chamekh*[*], *Alaoua Bouaicha, Abderraouf Messai*
	3D Failure Envelopes of Strip Footings on Sand over Non-Homogeneous Clay Using Limit Analysis Method *Alaoua Bouaicha*[*]
	Prediction of the Maximum Shear Strength of Fiber-Reinforced Soils Using Artificial Intelligence *Leyla Bouaricha*[*], *Yasmine Mohamed Bouteben, Azeddine Chehat, Ahmed Djafar Henni*
18:00 – 19:20	Implementation of Five-Noded Mapped Infinite Element to OpenSees *Sefa Uzun*[*], *Yusuf Ayvaz*
	Thermal Properties and Microstructure Investigation of Sustainable Self-Compacting Concrete-Based Coal Bottom Ash Aggregate *Ibtissam Boulahya*[*], *Abdelkadir Makani, Ahmed Tafraoui*
	Effect of Thermal Gradient on the Initial Stiffness of End-Plate Beam-Column Connections Exposed to Fire *Yasmina Douah*[*], *Anis Abidelah, Hichem Rakib Sebbagh, Djemel Eddin Kerdal, Abdelhamid Bouchair*
	Numerical Analysis of the Static and Cyclic Behavior of a T-Stub Steel Connection *Mohammed Mokhtar Fekir*[*], *Hichem Rakib Sebbagh, Anis Abidelah, Abdelhamid Bouchair, Djamel Eddine Kerdal*

	Numerical Study to Optimize the Best Locations for Building a New Tunnel Next to the Old One by Tow Behaviors the Mohr-Coulomb and Drucker-Prager *Taleb Hosni Abderrahmane[*], Guemidi Ismahene*
19:20 – 19:30	Break
	Online Session – 46 (in English) Head of Session: Dr. Nurhafizah Hasim
19:30 – 20:50	Parameter Estimation for a Mechanistic Model of Cell Population Damage from High-Dose Irradiation Using Nelder-Mead Simplex and Particle Swarm Optimization *Nabil Haazim Mohd Amirrudin[*], Fuaada Mohd Siam*
	A Collocation Approach for Solving Space Fractional Partial Differential Equations Using Generalized Lucas Polynomials *Zineb Laouar[*], Nouria Arar*
	Study of the Influence of Grinding on the Characteristics of Natural Phosphate Mining in Kef Esnoun (Algeria) *Hadda Rezzag[*], Amina Grairia, Saida Bouyegh, Samira Tlili, Lynda Bahloul*
	Modeling of the Working Flow Propagation in the Well Ejection System Flow Part *Denys Panevnyk[*]*
	Design of Ring Yarn Structures: Physical-Mechanical Properties of Different Yarns for Improved Sustainability and Performance *Ivana Salopek Čubrić[*]*
	Assessment of Material Sensory Properties: Focus on bipolar attributes of Stiffness-Softness and Roughness-Smoothness *Ivana Salopek Čubrić, Goran Čubrić[*]*
	Artificial Hydrophobic Surfaces Based on MgO Thin Film: Elaboration and Characterization *Zehira Belamri[*]*
	Exergy Analysis of Combined Cooling, Heating, and Power Systems Integrated with Carbon Capture and Storage for an LNG Carrier *Engin Guler, Selma Ergin[*]*

Virtual Hall 3

	Online Session – 47 Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
09:00 – 10:20	Potential Use of Materials Based on Alginate Beads for Treating Contaminated Water *Dhirar Ben Salem[*], Amel Riah*
	Carbon Nanostructured as an Efficient Adsorbent for High Concentrations of

	Crystal Violet Removal *Amel Riah*[*], *Salim Bousba*
	Lead (Pb) Pollution: A Food Safety Issue *Mahmood Ur Rahman*[*]
	Exploring the Adsorption Capacities of Olive Mill Solid Waste Biochar for Polyphenols: Experimental Optimization and DFT/B3LYP Analysis *Imad Rabichi*[*], *Kawtar Ezzahi, Abdelrani Yaacoubi, Abdelaziz Bacaoui, Mohamed Hafidi, Loubna Elfels*
	Removal of Total Phenols from Olive-Mill Wastewater Using an Agricultural By-Product, Olive Stone *Kawtar Ezzahi*[*], *Imad Rabichi, Abdelghani Yaacoubi, Abdelaziz Bacaoui, Rachid Idouhli, Nabil Rochdi, Mohamed Hafidi, Loubna El Fels*
	Extraction of Phosphocalcic Biomaterial from the Animals Bones Bio-Waste *Saida Bouyegh*[*], *Sabrina Ladjama, Hadda Rezzag, Sihem Benayache, Samira Tlili*
	Synthesis and Characterisation of Hybrid Membranes for Removal of Rhodamine B *Amina Aoues*[*], *Ouarda Merdoud, Mohamed Oualid Boulakradeche, Djamal Abdessemed, Omar Arous*
	Numerical Assessment of Seismic Behavior in Earth Dams: A Case Study of Fontaine Gazelles Dam, Biskra, Algeria *Alaoua Bouaicha*[*]
10:20 – 10:30	Break
Online Session – 48 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp	
10:30 – 11:50	Isocratic High-Performance Liquid Chromatographic Separation and Determination of Elution Order of Some Quinolone's Enantiomers via Cellulose-Amylose as Chiral Selector *Mohamed Nadjib Rebizi*[*]
	Evaluation of the Photophysical and Photodynamic Properties of Carbon Quantum Dots Obtained from Plant Extracts *Martín Lemos Vilches*[*], *Cristian Lillo, Jorge Montanari*
	X-Ray Scans Super-Resolution with a Novel Hierarchical Multi-Scale Attention Network *Rania Saoudi*[*], *Djameleddine Boudechiche, Zoubeida Messali*
	Traditional Phytotherapeutic Practices in the South-Eastern Anti-Atlas Mountains: An Ethnobotanical Survey of Medicinal Flora in Iznaguen, Morocco *Younesse El-Ouazzani*[*], *Fouad Msanda, Khalil Cherifi*
	Preparation and Evaluation of Dermatological Gel Based on Aromatic and Medicinal Plant Extracts

	Fouzia Benoudjit[*], Imene Hamoudi, Asmaa Aboulouz
	Electrochemical Exfoliation and Characterization of Graphene for Symmetric Supercapacitors: A Comprehensive Study *Abdelmalik Zemieche[*], Loubna Chetibi, Djamel Hamana, Slimane Achour*
	Contribution to the Study of Microstructural Properties of Quasicrystals in AlCuFe Alloys *Wafa Boumechta[*], Moussa Zahzouh*
	Resonance Study of FGM Shells Reinforced with Carbon Nanotubes *Zakia Hammou[*], Zakia Guezzen, Zouaoui Sereir, Yamna Hammou*
11:50 – 12:00	Break
	Online Session – 49 (in English) Head of Session: Assoc. Prof. Dr. Selahattin Kosunalp
12:00 – 13:20	Research Trends in the Use of ChatGPT in Education: A Bibliometric Analysis *Mehmet Donmez[*]*
	Decentralized Collaborative Multi-Agent Reinforcement Learning for Air Attack Scenarios *Berire Gunduz[*], Mehmet Dikmen*
	Phenotypic and Technological Characterization of Lactic Acid Bacteria Isolated from Algerian Artisanal Dairy Products *Roumaissaa Belkacem[*], Qada Benameur*
	Contribution of Lorentz Force in Cathode/Arc Coupling During TIG Welding *Merazi Sayah[*], Leila Belgacem*
	Structural, Morphological, and Optical Properties of Zinc Oxide Prepared by Sol-Gel Method *Khemissi Lahouel[*], Meriem Gasmi, Saida Hoggas, Sabiha Hakkar*
	Effect of Extract Concentration on Green Synthesis of Silver Nanoparticles *Roufaida Aissa Brahim[*], Hadjer Mabrouki, Djamal-Eddine Akretche*
	The Methode of Adobe in Building *Hammache Soumia[*]*
	CBD-Loaded Lipid-Based Nanoparticles for Topical Application Against Skin Cancer *Ana Paula Sanguinetti[*], Mirian Scavone, Magalí Di Meglio, Pablo Raies, Paulo Maffia, Jorge Montanari, Maria Natalia Calienni*
13:20 – 13:30	Break
	Online Session – 50 (in English) Head of Session: Dr. Nurhafizah Hasim
13:30 – 14:50	Spatial Analysis of Soil Heavy Metals Based on Geostatistical Approach in the North of Iraq

	Mohammed Oday Al Hamdani[*], *Ali Volkan Bilgili, Sureyya Betul Rufaioglu*
	A New Approach for the Degradation By-Products Pesticide Detection in Trace Level *Chemseddine Zekkaoui*[*], *Tarek Berrama, Salima Dadou, Assia Beriber, Nassime Doufene, Kadmi Yassine*
	Application of Doehlert Design Experimental Methodology for the Optimal Emerging Pollutant Degradation with Fenton Process *Chemseddine Zekkaoui*[*], *Tarek Berrama, Salima Dadou, Assia Beriber, Nassime Doufene, Kadmi Yassine*
	Optimization by the Surface Response Methodology of a Fenton Like Process by CrVI of an Anthraquinonic Dye Type Green Acid 25 *Benidris Elbatoul*[*], *Slamani Samira, Hachemi Chaimaa, Abdelmalek Fatiha, Ghezzar Mouffek Redouane*
	Pellets from Olive Mill Waste: Densification and Characterization for Sustainable Waste Management Solutions *Zaina Izghri*[*], *Fatima Ezzahra Yaacoubi, Chaima Sekkouri, Imad Rabichi, Abdelaziz Ounas, Karima Ennaciri, Abdelaziz Bacaoui, Abdelrani Yaacoubi*
	Microplastic Pollution in Surface Waters of Ergene River: Sources and Spread *Enes Ozgenc*[*], *Gunay Yildiz Tore, Erdi Bulus, Yesim Muge Sahin*
	Diatomite Formation Associated with Sogucak Pyroclastics (Sandikli, Türkiye) *Bala Ekinci Sans*[*], *Zeynep Doner*
	Effects of Titanium Dioxide on the Ultrasonic and Structural Properties of Zinc–Strontium–Lithium Phosphate Glass *Nurhafizah Hasim*[*], *Nur Hidayah Ahmad, Nur Asilah Zulkifeli, Anis Nazihah Mat Daud*
14:50 – 15:00	Break
	Online Session – 51 (in English) Head of Session: Assoc. Prof. Dr. Yunus Kaya
15:00 – 16:40	Strategic Coordination of P2P Energy Trading in Smart Microgrids *Kubra Nur Sahin*[*], *Muhammed Sutcu*
	Advancing Turkish-to-English Translation: A Transformer-Based Neural Model Approach *Nurzhan Amantay*[*], *Yasin Ortakci*
	Contribution to the Application of Condition Maintenance for Followed and Diagnostic Breakdowns of a Rotating Machine *Naima Tamaloussi*[*], *Lamia Benzaid, Zina Azzez, Azzedine Bouzaouit*
	Recycling of Urban Waste in the Manufacture of Concretes *Ben Khadda Ben Ammar*[*]

	An Artificial Neural Network-Based Microwave Technique for Bianisotropic Materials Electromagnetic Property Extraction *Mehmet Akif Ozkaya*[*], *Ugur Cem Hasar*
	Improved Propagation Constant Determination Using Two-Line Measurements *Ugur Cem Hasar*[*], *Husain Ali*
	Increasing the Reflection Parameter in Microstrip Patch Antennas by Trying Different Shapes *Hamdullah Ozturk*[*]
	A Study on General Safety Precautions Against Electrical Accidents in Daily Life *Yunus Kaya*[*], *Selahattin Kosunalp*
	VO2 Based Adaptive Wideband THz Metamaterial Absorber *Merve Kurt*[*], *Gokhan Ozturk*
	The Impact of Telework on Gender Equality and Occupational Health *Mustafa Ozdemir*[*]

[*] : Corresponding Author

_ : Presenter

Summary of Sessions

Friday, July 19, 2024		
Conference Hall	*Virtual Hall 1*	*Virtual Hall 2*
Opening Session	Online Session – 1	Online Session – 6
Onsite Session – 1	Online Session – 2	Online Session – 7
Onsite Session – 2	Online Session – 3	Online Session – 8
Onsite Session – 3	Online Session – 4	Online Session – 9
Onsite Session – 4	Online Session – 5	Online Session – 10
Onsite Session – 5		
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Virtual Hall 1	*Virtual Hall 2*	*Virtual Hall 3*
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