

SCIENTIFIC PROGRAMME

Start	End	
First Day - 18.12.2025 Thursday		
11:00	13:00	Registration
13:00	13:30	Welcome Session (Turkish)
13:30	14:50	Plenary Session (Turkish) Chair: Prof. Ahmet Karagunduz
13:30	14:10	Plenary Speaker (Turkish): Soner Olgun <i>"Çevresel Analiz ve İzlemeler"</i>
14:10	14:50	Plenary Speaker: Prof. Eftade Gaga <i>"Air Pollution as a Toxic Cocktail: Emerging Contaminants and Human Health Challenges"</i>
14:50	15:10	Coffee Break + Poster Session
15:10	17:15	Session <i>Chair: Assoc. Prof. Cigdem Balcik</i>
15:10	15:25	Barış Öner (EGGER Group) <i>Characterization of Thermoplastic Starch-Based Biopolymer/Acrylonitrile Butadiene Styrene (ABS) Blends Obtained from Bread and Pasta Waste for Edge Banding Applications</i>
15:25	15:40	Mine SAĞDIÇ ULUSOY (Eskişehir Technical University) <i>Characterization of Atmospheric Microplastics in Deposition Samples Using Micro-FTIR Spectroscopy: Are We Looking from Right Perspective?</i>
15:40	15:55	Meryem Aksu (Eskişehir Technical University) <i>Assessment of Tire-Derived Microplastics in Eskişehir Urban Road Dust via FTIR-ATR Spectroscopy</i>
15:55	16:10	Elif Özcan (Gebze Technical University) <i>Solar-Driven Photodegradation of Pharmaceutical and Dye Pollutants Using a Chromium-Based MOF Photocatalyst</i>
16:10	16:25	Ali Ülker (ENV Enerji) <i>Evaluation of pH Neutralization for the Treatment of Acid Mine Lake Waters in the Çan Mining Area</i>
16:25	16:40	Tanya Ülker (ENV Enerji) <i>Air Quality Assessment of Çan Urban Area: Monitoring of SO₂ and PM₁₀ within the Scope of HAKİP</i>
16:40	16:55	Ezgi Adak (Gazi University) <i>Determination of Carbofuran Using an Acetylcholinesterase Biosensor</i>
16:55	17:10	İlknur Çolak (Istanbul Provincial Directorate of Agriculture and Forestry) <i>The Rise of Biopesticides in Sustainable Agriculture: Current Status and Future Perspectives</i>
17:10	17:15	Closing session

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Start	End	
Second day - 19.12.2025 Friday		
09:00	11:00	Plenary Session <i>Chair: Prof. Erkan Şahinkaya</i>
09:00	09:40	Plenary Speaker: Prof. Dimitrios Kalderis <i>"The impact of war on the environment: managing soil contaminated with explosives"</i>
09:40	10:20	Plenary Speaker: Prof. Turgay Pekdemir <i>"Carbon Capture and Utilisation towards Waste to Resource for Sustainable Future through Circular Economy principles: Chemistry, Challenges, and Opportunities"</i>
10:20	11:00	Plenary Speaker: Prof. Dr. Hasan Can Okutan <i>"Innovative Strategies in integrating Pyrolysis, Gasification and CO2 Utilization Toward Sustainable Fuels and Chemicals"</i>
11:00	11:30	Coffee Break +Poster Session
11:30	12:45	Session Title <i>Chair: Prof. Eftade Gaga</i>
11:30	11:45	Yasemin Torlak (Pamukkale University) <i>Removal of Phenolic Derivatives from Water System Using ZnO Nanoparticles</i>
11:45	12:00	Yaşar Kemal Recepoğlu (Izmir Institute of Technology) <i>Tailoring Acrylonitrile Fabrics with Ni-MOF-74 for Advanced Carbon Dioxide Adsorption</i>
12:00	12:15	Zahra Movaffagh (İstanbul Technical University) <i>Ultrasonic enhanced treatment of water containing organo-sulfurs in the presence of ternary boron-based MAX phase</i>
12:15	12:30	Elif Gungormus Deliismail (Izmir Institute of Technology) <i>Revealing the Mechanisms Behind Differently Charged NF Membrane Performance: Explainable AI and Mechanistic Approaches for Sustainable Lithium Recovery</i>
12:30	12:45	Mirkan Emir Sancak (Gebze Technical University) <i>A Machine-Learning Assisted Optical Titrimetry Framework for Chloride Determination Using Multi-Space Color Features</i>
12:45	14:00	Lunch
14:00	16:00	Plenary Session <i>Chair: Prof. Nadir Dizge</i>
14:00	14:40	Plenary Speaker: Prof. İpek İmamoğlu <i>"Complex Interactions of Organic Compounds with Microplastics"</i>
14:40	15:20	Plenary Speaker: Prof. Tanju Karanfil <i>"Microwave Regeneration of PFAS laden Granular Activated Carbons"</i>
15:20	16:00	Plenary Speaker: Prof. Dr. Erkan Şahinkaya <i>"Global and National Perspectives on Chemical Management"</i>
16:00	16:15	Coffee Break +Poster Session
16:15	17:00	Session Title <i>Chair: Assoc.Prof. Bahar Özbey-Ünal</i>
16:15	16:30	Yaşar Kemal Recepoğlu (Izmir Institute of Technology) <i>Photocatalytic degradation of atrazine under UV light using Ag-decorated Zr-based MOF: UiO-66-NH2-Ag/AgCl</i>
16:30	16:45	Elif Gungormus Deliismail (Izmir Institute of Technology) <i>Surface Free Energy Prediction for Rough Membranes: An R-Model-Independent Artificial Neural Network Approach</i>
16:45	17:00	Kadir Çakıral (Eastern Mediterranean University) <i>Sustainable and cost-effective antimicrobial cellulose filters functionalized with tannic acid-mediated silver and zinc oxide nanoparticles</i>
17:00	17:10	Closing session

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Start	End	
Third Day - 20.12.2025 Saturday		
09:00	10:20	Plenary Session Chair: Prof. Nadir Dizge
09:00	09:40	Plenary Speaker: Prof. Arif Kivrak <i>"Organic Catalysts for Next-Generation Fuel Cells: Towards Green and Efficient Energy Conversion"</i>
09:40	10:20	Plenary Speaker: Prof. Bünyemin Coşut <i>"*Photocatalytic and Photo-Electrocatalytic Degradation of Pharmaceuticals as Emerging Pollutants Using LDH Nanoarchitectures"</i>
10:20	10:30	Coffee Break +Poster Session
10:30	11:45	Session <i>Chair: Assoc.Prof. Cigdem Balcik</i>
10:45	11:00	Aydın Cihanoğlu (Ege University) <i>Influence of the divalent ions composition in the RED system compartments on uphill transport and energy harvesting performance</i>
11:00	11:15	Junior Kabanza-Kalala (Eastern Mediterranean University) <i>Metal-Organic Framework Based Polymer for Controlled Drug Delivery and Antibacterial Activity</i>
11:15	11:30	Handenur Yaşar (Gebze Technical University) <i>CO₂ Capture from Indoor Air by Hydrophobic Membrane Contactors: Mechanism and Experimental Assessment</i>
11:30	11:45	Zehra Köle (Gebze Technical University) <i>A Novel Technology for Resource Valorization from Waste Streams</i>
11:45	12:15	Closing + Award ceremony

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POSTER PRESENTATIONS

Number	Title	Author
1	Multidimensional Assessment of the Potable Water Supply System in Constantine, Algeria: Quality, Infrastructure, and Consumer Perception	Oumnya CHERITI
2	Water-Based Polyurethane Dispersion Synthesis	Kevser Harmandar
3	Synthesis of Polyurethane Dispersions Using Different Polyol Types and IPDI Isocyanate and Their Application in Textile	Ezgi Topçu Gürbüz
4	Removal of Methylene Blue Dye Using Biogenically Synthesized Silver Nanoparticles	Nur Koçberber KILIÇ
5	A Study on Toxic Dye Biosorption by Biomass of Indigenous Bacterial Strains	Nur Koçberber KILIÇ
6	Nanoremediation of Methylene Blue with Biologically Synthesized AgMgO Nanoparticles from <i>Parmelia tiliaceae</i>	Nur Koçberber KILIÇ
7	Silver Nanoparticles Produced by <i>Pseudomonas aeruginosa</i> and Investigation of Their Potential in Nanoremediation	Esra ERKOÇ
8	Lichen-Mediated Synthesis of Ag-ZnO Nanoparticles and Their Application in Methylene Blue Removal	Esra ERKOÇ
9	Silver Nanoparticles (AgNPs) by <i>Stenotrophomonas maltophilia</i> : An Investigation About Different Application Areas of These Biogenic AgNPs	Esra ERKOÇ
10	Cellular Immune Response of <i>Periplaneta americana</i> to Bio-based Silver Nanoparticles (AgNPs) Synthesized by <i>Bacillus cereus</i>	Ebru Gökalp ÖZKORKMAZ
11	Development of Environmentally Friendly Spray Insulation Foam System	Safa Kağan Şakar
12	A Project on the Circular Economy Pathways for the Energy Transition	Çiğdem Balçık
13	Reduction of Carbon and Water Footprints in Environmental Analysis Laboratories: A Sustainable Management Approach	Seren Kasap
14	Reducing Carbon Footprint in Polymer-Based Materials: Recycled and Bio-Based ABS Applications in the Context of Carbon Border Regulations	Yasemen Gökkurt
15	Valorization of Poultry Cartilage By-Products for the Sustainable Production of Chondroitin Sulfate	Ahmet Tekin
16	Design, Synthesis and Electrochemical Properties of Pyrazole-Based Organic Fuel Cell Anode Catalysts	Arif Kıvrak
17	Toxic and essential elements in <i>Thymus serpyllum</i> L. and <i>Sambucus nigra</i> L. from the region of North East Bulgaria	Katya Peycheva
18	Macro- and Trace-Element Profile in Black Sea Red Mullet (<i>Mullus barbatus</i>). Human Health Risk Assessment	Katya Peycheva
19	Graphene Oxide Functionalized Membranes for Enhanced Antimicrobial and Antibiofilm Performance in Osmotic MBR Systems	Zelal Işık