



# 6th INTERNATIONAL POLYMERIC COMPOSITES SYMPOSIUM AND WORKSHOPS

**VI. ULUSLARARASI POLİMERİK KOMPOZİTLER SEMPOZYUMU VE ÇALIŞTAYLARI**

Tepekule Congress and Exhibition Centre



TMMOB  
KİMYA MÜHENDİSLERİ ODASI

2 - 4 October 2025  
2 - 4 Ekim 2025  
İzmir-Türkiye



KOMPOZİT  
SANAYİCİLERİ DERNEĞİ



ENSİA  
ENDE SANAYİCİLERİ VE İŞ İHANASI DERNEĞİ



# 6th INTERNATIONAL POLYMERIC COMPOSITES SYMPOSIUM AND WORKSHOPS

VI. ULUSLARARASI POLİMERİK KOMPOZİTLER SEMPOZYUMU VE ÇALIŞTAYLARI

2 October 2025 Thursday / 2 Ekim 2025 Perşembe



## ANADOLU HALL / ANADOLU SALONU

1A SESSION  
1A OTURUM

### SAAT/TIME

08:30-09:30	REGISTRATION / KAYIT
09:30-10:15	INAUGURAL/ AÇILIŞ KONUŞMALARI
10:15-10:50	PLAQUE PRESENTATION TO SPONSORS / KATKI VEREN KURULUŞLARA PLAKET SUNUMU
10:50-11:00	COFFEE BREAK/ÇAY-KAHVE ARASI
11:00-11:45	Plenary Lecture - Michael Wisnom - University of Bristol - Simulating Composites Manufacturing Processes

## ANADOLU HALL / ANADOLU SALONU

1A SESSION  
1A OTURUM

Emirhan Çetin  
Oyak Renault Otomobil  
Fabrikalari A.Ş

11:45-12:05

Investigation of Foaming Processes in Rigid Polymer Composites for Lightweighting and Carbon Footprint Reduction in Automotive Applications

Burcu Saner Okan  
Sabancı University

12:05-12:25

Driving Sustainability Through Advanced Waste Upcycling:  
Lightweight Thermoplastic Manufacturing Reinforced with Green Graphene

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2 October 2025 Thursday / 2 Ekim 2025 Perşembe



12:25-13:30

## LUNCH / YEMEK ARASI

### ANADOLU HALL / ANADOLU SALONU

2A SESSION  
2A OTURUM

#### INVITED TALK

Mete Bakır  
Turkish Aerospace Industries

**13:30-14:00**

High-Performance Polymer Composites for the Next-Generation of Sustainable Aerospace Applications

Seçkin Martin  
Izmir Institute of Technology

**14:00-14:20**

Designing Composite-Based Cylindrical Structures and Manufacturing Composite Prototypes by Filament Winding Method

Merve Erdeğer  
Kordsa

**14:20-14:40**

Vitrimer Based Composites: Prepreg Application for Aerospace

Mustafa Can Topbaşoğlu  
Sazcılar Otomotiv

**13:40-15:00**

Investigation of the Flammability Properties of Boron Additived Fiber Reinforced Composites

Momen N M Elbhanasawi  
Bursa Uludağ University

**15:00-15:20**

Experimental Investigation of Thermoplastic Composite Based Sandwich Panels Under Static and Impact Loading

### AKDENİZ HALL / AKDENİZ SALONU

2B SESSION  
2B OTURUM

Alperen Solmaz  
Manisa Celal Bayar University

**14:00-14:20**

Tensile Characteristics Determination of GNP/PLA Composites Fabricated via Fused Deposition Modelling (FDM) Method

Gamze Sultan Baş Berkem  
Yalova University

**14:20-14:40**

Synthesis and Characterization of Recyclable Bio-Based Polymers Using Chemically Modified Sodium Lignosulfonate

Berna Şirvanlioğlu  
Izmir Institute of Technology

**14:40-15:00**

Preparation and Characterization of Poly-L-Lactide-Natural Silica Composites

Buğra Sökmen  
Pamukkale University

**15:00-15:20**

Sustainable and Functional Encapsulation: Fabrication and Characterization of Thyme Oil Microcapsules Using Waste Textile-Derived Nanocrystalline Cellulose Reinforced Alginate-Gelatin Matrix

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15:20-15:35

## COFFEE BREAK / ÇAY-KAHVE ARASI

### ANADOLU HALL / ANADOLU SALONU

3A SESSION  
3A OTURUM

#### INVITED TALK

Salim Belouettar  
Luxembourg Institute of Science  
and Technology

15:35-16:05

Digital Product Passports for Circular Economy in Composites:  
Challenges and Future Perspectives

Muhammed Erdal Ulaşlı  
Izmir Institute of Technology

16:05-16:25

Manufacturing and Mechanical Characterization of Graphene-Reinforced Type IV COPVs for High-Pressure Hydrogen Storage

Fatih Ertuğrul Oz  
King Abdullah University  
Science And Technology

16:25-16:45

Layer Thickness Effect on Hydrogen Permeation Pathways of Thin-Ply Thermoplastic Composites

Cuma Ali Uçar  
Cef Advanced Composites &  
Materials

16:45-17:05

Epoxy Prepregs With Adjustable Processability And Curing Characteristics With Ambient-Temperature-Stability: Linking Prepreg Architecture To Composite Performance

### AKDENİZ HALL / AKDENİZ SALONU

3B SESSION  
3B OTURUM

Kardelen Yıldız  
Izmir Institute of Technology

16:05-16:25

Advancing Thermal Management with Hexagonal Boron Nitride Doped High-Performance Polymer Composites for Efficient Heat Dissipation in Electronics

M. Reza Nofar  
Istanbul Technical University

16:25-16:45

Cellulose Nanocrystals and Their Nanocomposites:  
Progresses and Future Perspectives

Mustafa Alperen Şakar  
Yıldız Technical University

16:45-17:05

Investigation of Tribological Properties of Epoxy Based Composites Reinforced With SiO<sub>2</sub>, GO and h-BN Nanoparticles

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17:05-17:20

## COFFEE BREAK / ÇAY-KAHVE ARASI

### ANADOLU HALL / ANADOLU SALONU

4A SESSION  
4A OTURUM

Mete Kayihan  
Istanbul Technical University

**17:20-17:40**

Effect of Microwave Curing on Glass Fiber Reinforced Eilium Thermoplastic Composite Production

Yusuf Şahin  
Ostim Technical University

**17:40-18:00**

Manufacturing of Carbon Fiber Reinforced Epoxy Composites and Its Investigation of Mechanical/Tensile Strength/Modulus of Composites Experimentally

Hürem Canitez  
Sazcilar Otomotiv

**18:00-18:20**

Lap-Shear Strengths of Glass, Basalt and Hybrid Composites

Simge Karatepe  
Polütek Polyester Poliüretan Ltd. Şti

**18:20-18:40**

The Effect of Magnesium Hydroxide and Sodium Hydroxide Applications on the Mechanical Properties of Natural Fiber-Reinforced Composites

### AKDENİZ HALL / AKDENİZ SALONU

4B SESSION  
4B OTURUM

Hüsnü Onur Ertürk  
Izmir Katip Çelebi University

**17:20-17:40**

Use of Waste-Derived ZnFe<sub>2</sub>O<sub>4</sub> as A Functional Additive in Recycled Polyethylene Composites

Simay Yanik  
Istanbul Technical University

**17:40-18:00**

Development of Conductive Polymer Blend Nanocomposites with Optimized CNT Content

Yekta Arya Ölcer  
Izmir Institute of Technology

**18:00-18:20**

Polyaspartic Ester-TiO<sub>2</sub> Nanocomposites for Coating Applications

Melisa Atay  
Dokuz Eylul University

**18:20-18:40**

Energy Harvesting Applications for Nanomaterial Based Triboelectric Nanogenerators



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3 October 2025 Friday / 3 Ekim 2025 Cuma



## ANADOLU HALL / ANADOLU SALONU

5A SESSION  
5A OTURUM

### INVITED TALK

Jozsef Gabor Kovacs  
Budapest University of  
Technology and Economics

**09:30-10:00**

Advanced Lightweight Injection-Molded Polymer Composites:  
Recycling, Hybrid Manufacturing, and Integration of Industry 4.0

Clement Mugemana  
Luxemburg Institute of  
Science and Technology

**10:00-10:20**

Polymer Composites Materials: Towards Functional Interfaces

Alinda Öykü Akar  
Gebze Technical University

**10:20-10:40**

Contribution of Amine and Isocyanate-Rich Interlayer to  
Fiber-Matrix Adhesion for Carbon Fiber-Reinforced  
Elastomeric Polyurethane-Based Composites

Mehmet Çağatay Akbölük  
Gaziantep University

**10:40-11:00**

The Effect of Glass Fiber Powder Reinforcement on the Interfacial  
Bond Strength Properties of Polypropylenes Produced by Fused  
Filament Deposition

## AKDENİZ HALL / AKDENİZ SALONU

5B SESSION  
5B OTURUM

Zehra Ekdi  
Istanbul University Cerrahpaşa

**10:00-10:20**

Preliminary Performance Evaluation of Hydrogels Modified with  
Natural and Nano-Scale Additives for Biomedical Applications

Onur Aras  
Istanbul Medeniyet University

**10:20-10:40**

Development of Environmentally Friendly Hybrid Aerogels Using  
Carboxymethyl Cellulose and Clay Minerals

Eren Karakuş, Şükrü Al  
Ege University

**10:40-11:00**

PVC-Based Composite Materials Reinforced with Natural  
Hemp Fibers

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11:00-11:10

## COFFEE BREAK / ÇAY-KAHVE ARASI

### ANADOLU HALL / ANADOLU SALONU

6A SESSION  
6A OTURUM

Sven Fleischmann  
BASF SE

**11:10-11:30**

Controlling Metal Powder / Thermoplastic Composite Feedstock Production to Optimize Metal Part Manufacturing

Gülnur Başer  
Metyx Composites-Telateks A.Ş

**11:30-11:50**

Use of Fiber-Reinforced Polymeric Composites in Solar Energy Systems and Integration of Photovoltaic Cells into Mobile Platforms

Ferhat Yıldırım  
Çanakkale Onsekiz Mart University

**11:50-12:10**

Investigation of Post-Impact Electromagnetic Shielding Effectiveness (EMSE) Performance of Hybrid 3D Composites

Serdar Demir  
Boğaziçi University

**12:10-12:30**

Crashworthiness Optimization of Crush Plugs Applied on CFRP Composite Tubes Subjected to Axial Crushing

### AKDENİZ HALL / AKDENİZ SALONU

6B SESSION  
6B OTURUM

Ahmet Süha Kılıçoğlu  
OlgunÇelik OlgunTech -  
Izmir Institute of Technology

**11:10-11:30**

An Experimental-Analytical Approach for the Effect of Intra-Ply Discontinuities on the Mechanical Performance of Glass Fiber Reinforced Polymer (GFRP) Leaf Springs

Dildare Metin  
Izmir Institute of Technology

**11:30-11:50**

The Preparation and Characterization of Wood -Plastic Composites from Recycled Plastics, Wood and Luffa Fiber

Onur Nuri Arslan  
University of Warwick

**11:50-12:10**

Epoxy-Cured Sustainable Rubber Composites Reinforced with Lignin

Ferhat Yetiş  
Marmara Forestry Research  
Institute

**12:10-12:30**

Reinforcing Effect of Esterified Cellulose Nanofibrils for Polylactic Acid

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12:20-13:30

## LUNCH / YEMEK ARASI

### ANADOLU HALL / ANADOLU SALONU

7A SESSION  
7A OTURUM

#### PLENARY LECTURE

Marino Quaresimin  
University of Padova

**13:30-14:15**

An Innovative Strategy to Design and Monitor Safe, Reliable and Lightweight Composite Structures Under in-Service Loading

Peter Klein  
Fraunhofer Institute for Industrial Mathematics

**14:15-14:35**

Mastering the DPP Regulation Jungle on a Digital Platform: An Opportunity for Accelerated Composite Innovations

Natalia Konchakova  
Helmholtz-Zentrum Hereon

**14:35-14:55**

Know Your Products to Forge a Secure and Prosperous Future: DigiPass CSA Approach

Heinz A. Preisig  
Norwegian University of Science and Technology

**14:55-15:15**

Interoperability for Digital Product Passports and Circularity

Franz Pirker  
AC2T Research GmbH

**15:15-15:35**

Competitive Advantage through Comprehensive DPPs: From an Administrative Burden to Strategic Edge

### AKDENİZ HALL / AKDENİZ SALONU

7B SESSION  
7B OTURUM

Merve Esranur Yalçın  
Karadeniz Technical University

**14:15-14:35**

Production of Hybrid Thermoplastic Composites Reinforced with Hemp and Basalt/Carbon Fabrics for Automotive Interior Trim Panels and Determination of Energy Absorbtion Behavior

Göksenin Kurt Cömlekçi  
Şişecam Bilim, Teknoloji ve Tasarım Merkezi

**14:35-14:55**

Effect of Different Sizing Types on the Interfacial Strength of Glass Fiber in PPS Composites

Salih Dağdeviren  
Ankara Yıldırım Beyazıt University

**14:55-15:15**

Statistical Investigation of the Effects of Dust Contamination and Surface Preparation on the Bond Strength of Composites

Çağlar Subaşı  
Eskim Kimya

**15:15-15:35**

Development of Natural Fiber-Reinforced BMC Composite Materials



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15:35-15:50

## COFFEE BREAK / ÇAY-KAHVE ARASI

### ANADOLU HALL / ANADOLU SALONU

8A SESSION  
8A OTURUM

Samet Özyigit  
Luxembourg Institute of Science  
And Technology

**15:50-16:10**

Recycling of Carbon Fibers in Structural Composites Having  
Debonding on Demand Characteristics

Ebeda Nur Beşdok  
Gebze Technical University

**16:10-16:30**

Investigation the Effects of Manual and Waterjet Cutting Methods  
on the Mechanical Properties of Carbon Fiber Composite Materials

Zeliha Bengisu Yakışık  
Turkish Energy, Nuclear and Mineral  
Research Agency

**16:30-16:50**

Advanced HDPE-Based Composites for Neutron Shielding: A  
Theoretical and Experimental Study

Yusuf Şahin  
OSTİM Technical University

**16:50-17:10**

Investigation of Tensile Property of Carbon Reinforced Composite  
Produced with Vacuum Bagging

Sevim Özgül  
Bahçeşehir University

**17:10-17:30**

Fungal Biocomposite Production and Characterization

17:30-18:30

## POSTER OTURUMU / POSTER SESSION

### AKDENİZ HALL / AKDENİZ SALONU

8B SESSION  
8B OTURUM

Nilsu Ataman  
Izmir Katip Çelebi University

**15:50-16:10**

Life Cycle-Based Carbon Footprint Analysis of Fiber and  
Matrix Selection in Polymer Matrix Composite Materials

Özge Akay Sefer  
Marmara University

**16:10-16:30**

Sustainable Packaging Materials: Fabrication and Analysis of Luffa  
Cylindrica-Polyvinylpyrrolidone (PVP) Bio-Composites

Elif Avcu Altıparmak  
İstanbul University-  
Cerrahpaşa

**16:30-16:50**

Effect of Nitro-Substituted Thiosemicarbazone-Doped  
Polythiophene-Based Composites on Supercapacitor Performance  
as Energy Storage Materials

Mete Kayihan  
İstanbul Technical University

**16:50-17:10**

Fatigue Damage Analysis of Glass Fiber Reinforced Eium  
Thermoplastic Composite Materials

Burçak Ay  
Yıldız Technical University

**17:10-17:30**

Optimization of Process Parameters in Chitosan Nanoparticles  
Produced for Hydrophobic Coatings Reducing Bacterial Adhesion

17:30-18:30

## POSTER OTURUMU / POSTER SESSION

20:00-23:00

## GALA YEMEĞİ / GALA DINNER

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4 October 2025 Saturday / 4 Ekim 2025 Cumartesi



## ANADOLU HALL / ANADOLU SALONU

9A SESSION  
9A OTURUM

Alperen Doğru Ege University	<b>09:10-09:30</b>	Effect of Environmental Aging on Mechanical and Thermal Properties of Carbon Fiber and Glass Fiber Reinforced HDPE Matrix Composite
Ayberk Sözen Dokuz Eylül University	<b>09:30-09:50</b>	Thermoplastic Materials for Marine Applications : PA Composites
Mahmut Uğur Fiberr Fiber Reinforced Resins As	<b>09:50-10:10</b>	Development of Fragment-Resistant Wall Against Explosion Effects Using Composite Technology by Recycling Plastic Waste
Kaveh Shahidi Boğaziçi University	<b>10:10-10:30</b>	Seismic Design and Damage Assessment of Composite Pipe Joints
Ferit Çakır Gebze Technical University	<b>10:30-10:50</b>	The Use of Composite Materials as Reinforcement Elements in Reinforced Concrete and Masonry Structures: An Experimental and Practical Evaluation

## AKDENİZ HALL / AKDENİZ SALONU

9B SESSION  
9B OTURUM

Nur Sultan Yoldas Gazi University	<b>09:10-09:30</b>	Preparation and Characterization of Boron Carbide Filled Electrorheological Thermoplastic Polyurethane
Ahmet Gül Küçükter Tactile Industry and Trace Inc.	<b>09:30-09:50</b>	Nano-Green Textiles: Development of Flame-Retardant Textile Surfaces with PLA-Based Biocomposites for Enhanced Fire Safety
Ezgi Sönmez Pamukkale University	<b>09:50-10:10</b>	Sandwich Composite Structures from Natural Fiber-Based Textile Waste: Production Process and Acoustic Performance Analysis
Ayça Aydın - Ayşe Kurt Polyteks Textile Company - BUTEKOM Bursa Technology Coordination and R&D Center	<b>10:10-10:30</b>	Development of Glass Fibre Reinforced Bio-PET Matrix Composites and Evaluation of Their Mechanical Performance
Selçuk Poyraz Adiyaman University	<b>10:30-10:50</b>	Preparation and Characterization of Functional Textiles for Fiber Reinforced Polymeric Composites via Microwave Energy-Based Approach

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10:50-11:05

## COFFEE BREAK / ÇAY-KAHVE ARASI

### ANADOLU HALL / ANADOLU SALONU

10A SESSION  
10A OTURUM

Onur Özcan  
Izmir Institute of Technology

11:05-11:25

Design, Simulation, and Optimization of High-Pressure Type-IV COPVs Reinforced with Graphene Nanoplatelets Using Finite Element Analysis

Hamza Arda Deveci  
Erzincan Binali Yıldırım University

11:25-11:45

The Effect of Stacking Sequence Optimization on the Open-Hole Tensile Strength of Carbon/Epoxy Composite Laminates

Mehmet Korkmaz  
Dokuz Eylül University

11:45-12:05

Modeling the Extension Behaviour of Intra-Ply Hybrid Flax/ E-Glass Woven Composites with the Finite Element Method

Mehmet Kir  
Süleyman Demirel University

12:05-12:25

Numerical Evaluation of Structural, Coating, and Corrosion Performance of Porous 316L Implants Fabricated via Polymer-Assisted Composite Approach

### AKDENİZ HALL / AKDENİZ SALONU

10B SESSION  
10B OTURUM

Necip Elbir  
Kocaeli University

11:05-11:25

Evaluation of Lichen-Based Renewable Filler in Polylactic Acid (PLA)

Narmin Samadova  
Izmir Institute of Technology

11:25-11:45

Fabrication of Colorimetric Mechanosensors for Glass Fiber Thermoplastic Composites

Hasan Türkmen  
Pamukkale University

11:45-12:05

Effect of Microcrystalline Cellulose and Diatomite Reinforcement on the Mechanical and Morphological Properties of Epoxy Based Composites

Dursun Aydin  
Kansai Altan

12:05-12:25

Comparative Study on The Effect of Various Calcium Carbonates on the Properties of Solvent-Based Coatings

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12:30-13:30

## LUNCH / YEMEK ARASI

### ANADOLU HALL / ANADOLU SALONU

11A SESSION  
11A OTURUM

Ümmühan Eker  
DowAksa Advanced Composite Materials Industry Ltd. Co.

#### INVITED TALK

13:30-14:00

Advanced Carbon Fiber Composites Solutions to Aviation and Energy Sectors

Neslişah İmamoğlu Karabaş  
Izmir University of Economics

14:00-14:20

Estimation of Cure Kinetics Parameters in Carbon/Epoxy Prepregs Incorporating Functionalized Single-Wall Carbon Nanotubes Using DSC Data

Sümeyra Göçmen  
Kosse Composite Marketing

14:20-14:40

The Effect of Different Fillers on the Performance of Decorative Composite Panels

Emre Alamur  
Izmir Institute of Technology

14:40-15:00

Development of Thermal Insulation Materials

Merve Kalaycı  
Beşer Balata

15:00-15:20

Investigation of the Impact of Ceramic Fiber Addition on the Friction Performance of Brake Pad Compositions

### AKDENİZ HALL / AKDENİZ SALONU

11B SESSION  
11B OTURUM

Misra Çavdar  
Ege University

14:00-14:20

Nanoparticle-Infused Electrospun Fibrous Scaffold Production for Spinal Cord Injury

Umut Dogu Seckin  
Ege University

14:20-14:40

Development and Characterization of Photo Cross-Linkable Resin Based Injectable Endodontic Composite Dental Filling Material Containing ZnO and BaSO<sub>4</sub>

Hayat Mohamed  
İstanbul Arel University

14:40-15:00

Production and Characterization of Allium Sativum (Garlic)-Loded Nanoparticles and Nanofibers, and Investigation of Their Antibacterial Effects on Hospital Acquired Bacteria

Zeynep Özge Öztaban-  
Sevil Şenocak  
İstanbul Arel University

15:00-15:20

Loading and Characterization of Colchicum Micranthum Extract on 3D Printed Scaffolds and Investigation of Anticancer Effects on Breast Cancer Cells

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15:20-15:35

## COFFEE BREAK, POSTERS SESSION ÇAY-KAHVE ARASI, POSTER GEZİMİ

### ANADOLU HALL / ANADOLU SALONU

12A SESSION  
12A OTURUM

Melisa Yeke  
Metyx Composites Telateks A.Ş.

**15:35-15:55**

Recycling of PET Foam and Glass Fiber Waste for High - Performance Core Applications

Rüçhan Yıldız  
Pamukkale University

**15:55-16:15**

Production and Characterization of Epoxy Matrix Composites Reinforced with Waste Glass Particles of Different Particle Sizes

Selin Dursun  
BUTEKOM Bursa Technology Coordination and R&D Center

**16:15-16:35**

Production and Characterization of Thermoplastic Composites by Hot Press Method Using Recycled Glass Fiber / Polypropylene Tapes

Ferhat Gül  
Gazi University

**16:35-16:55**

Effect of Heating Rate During Curing on the Properties of Composite Materials

Dilara Yüksel  
Borsan R&D Center

**16:55-17:15**

Sustainable Innovation in Solar Energy Infrastructure: Development of Boron-Infused Aluminum Solar Cables

17:15-18:15

## SECTORAL EVALUATION PANEL SEKTÖREL DEĞERLENDİRME PANELİ

18:15-18:45

## POSTER EVALUATION AND CLOSING POSTER DEĞERLENDİRME VE KAPANIŞ

12B SESSION  
12B OTURUM

Ferkan Toprak  
Pamukkale University

**15:35-15:55**

Development of Polylactic Acid Composites Reinforced with Bio-Waste for Sound Insulation Applications: The Potential of Olive Pits and Textile Fibers

Mustafa Eren Taşkınç  
Bursa Technical University

**15:55-16:15**

Development of Silver-Doped PLA Composites via Stereolithography (SLA) Method

Mervenur Gülmarmul  
Bursa Technical University

**16:15-16:35**

Sustainable Functionalized PYA Hydrogel Composites via UV Curing

Göksel Kepenek  
Pamukkale University

**16:35-16:55**

Application and Characterization of Chitosan-Gelatin Based Thyme Oil Microspheres with Antibacterial Effect on Titanium Plate

Erol Türker  
Turkish Chemistry Technology Center

**16:55-17:15**

A Strategic Step for International Competitiveness in the Plastics, Rubber and Composites Industries



## POSTER PRESENTATIONS

Mehmet Erdi Onan  
Ece Boya Kimya San. Ve Tic. A.Ş

Bio-Based Resins

Utku Uslu  
Karadeniz Technical University

Comparative Investigation of The Mechanical Properties of 0/90 Orientation Glass Fiber Reinforced Composite Surface Plates with Different Numbers of Layers Produced by Digital Light Processing (DLP) Method

Merve Temel  
Efachem Kimya Ürünleri San. Tic. A.Ş

Sustainable High-Performance Composites Using Recycled Thermoplastics Reinforced with Fibers and Minerals

Gözde Koçak Mutlu  
BUTEKOM Bursa Technology Coordination and R&D Center

Comparative Evaluation of The Antibacterial Properties of ZnO-Reinforced Virgin and Recycled LDPE Films

Abdullah Hilmi Coşar  
Gebze Technical University

Production and Characterization of Fully Biodegradable Biocomposite Plant Grow Plug Alternatives for Soilless Agriculture

Tila Çeçen  
DYÖ Paint Factory

Synthesis of Vinyl Ester Resin for the Composite Sector

Yağmur Damla Demir  
Izmir Institute of Technology

Development of Fluorinated Gelma Hydrogel for Cancer Treatment

Yasemin Büşra Atmaca  
Izmir Institute of Technology

Development of Multifunctional Gelma-Based Biocomposite Hydrogels Functionalized With EDTA Containing CitPMOF-E Nanoparticles

Umut Doğu Seckin  
Ege University

Production of Biocomposite Hydroxyapatite/Alginate Tissue Scaffold and Investigation of Its Osteogenic Potential

Madi Syrymov  
İstanbul Arel University

pH-Responsive Bioactive Nanomembrane Wound Dressing: A Chitosan-Aloe Vera-HA Based Colorimetric Indicator for Infection Detection

Ceren Cikay  
Ege University

Development and in vitro Characterization of a Plant-Based Nanomaterial-Containing Composite Polymer for Periodontal Tissue Engineering

Tuğba Demir Çalışkan  
Ankara University

Superhydrophobic and Oleophobic PGMA/COlemanite Composte Films Functionlized with Perfluoro Polyether Acid

Gürhan Denizli  
Efachem Kimya Ürünleri San. Tic. A.Ş.

A Comparative Study Between Calcium Carbonate and TALC Fillers on the Properties of EPDM Composites

Erdem Tunca  
Mugla Sıtkı Koçman University

Investigation of The Low-Velocity Impact Performance of Electrospun Polyvinyl Alcohol (PVA) Nanofiber Interleaved Carbon Fiber/Epoxy Composites for Aerospace Applications



## POSTER PRESENTATIONS

Ramazan Ercan  
*Ipekiş Mensucat Türk A.Ş.*

Production and Optimization of Sustainable Composite Materials from Textile Wastes

Merve Karabiyik  
*Izmir Institute of Technology*

Enhancing Thermal Resistance of QD Based Sensors Via CVD Polymer Encapsulation

Emre Döşeyici  
*Izmir Katip Çelebi University*

Characterization of Mechanical Properties of Glass Fiber/Talc Reinforced Hybrid Polypropylene Composites

Duru Ettergen  
*Ege University*

Development of Modified Natural Zeolite Added PVC Surface Coating

İklimе Kayhan  
*Izmir Institute of Technology*

High-Performance Anti-Corrosive Polymer Coatings on Zinc Surfaces via Chemical Vapor Deposition

Bilgesu Eryılmaz  
*Manisa Celal Bayar University*

Development and Characterization of an Abelmoschus Esculentus Based Hydrogel for Cartilage Tissue Engineering Applications

Mete Kayhan  
*Istanbul Technical University*

Effect of Recycling Glass Fiber Reinforced Elium Thermoplastic Composite Materials on Mechanical Properties

Senem Tetik  
*Izmir Institute of Technology*

The Fabrication of Pressure Sensitive Adhesives via Emulsion Polymerization

Ala Mohammed Ahmed Ali Saad  
*Istanbul Arel University*

Nanocapsulation of Omega-3 Extract Obtained from Flaxseed and its Transdermal Delivery via Microneedles

İlknaz Yeşilyaprak  
*Ege University*

Microalgae Production for Sustainable, Natural Biobased Composites with Pharmaceutical Potential

Ferhat Yıldırım  
*Çanakkale Onsekiz Mart University*

Investigation of the Usability of Phase Change Material (PCM) Filled 3D Composites for Passive Thermal Management

Amir Navidfar  
*Bahçeşehir University*

Mechanical Properties of Carbon Nanofiller Reinforced Glass Fiber Composites

Aybuke Polat  
*Ege University*

Effects of Cobalt-Free Accelerators on the Curing Process and Mechanical Properties of Glass Fiber Reinforced Polyester Composites