

# Prof. GÖKNUR BAYRAM

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-5217-2020

ScopusID: 55956248500

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## Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 1994 - 1999

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 1992 - 1994

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 1987 - 1992

## Dissertations

Doctorate, Reactive processing and characterization of anhydride/hydroxyl and anhydride/epoxy functionalized blends, Middle East Technical University, 1999

Postgraduate, Rheological properties of suspensions, Middle East Technical University, 1994

## Research Areas

Polymer Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2010 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2004 - 2010

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2002 - 2004

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2001 - 2002

## Courses

Separation Processes, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018  
Polymer Processing, Postgraduate, 2022 - 2023, 2017 - 2018  
Chemical Process Calculations, Undergraduate, 2023 - 2024, 2018 - 2019  
Polymer Technology, Undergraduate, 2022 - 2023  
Thermodynamics 1, Undergraduate, 2022 - 2023, 2020 - 2021  
Structure, Property and Processing Relations in Polymers, Postgraduate, 2021 - 2022  
Structure Property Relations in Macromolecular Media, Undergraduate, 2018 - 2019

## Advising Theses

BAYRAM G., Processing by electrospinning method and characterization of poly(lactic acid) and poly(lactic acid)-based composite nanofibers, Postgraduate, E.ÜMRAN(Student), 2022  
BAYRAM G., Development of carbon fabric-reinforced polylactic acid/acrylonitrile butadiene styrene multilayer composites, Postgraduate, İ.ÖZTÜRK(Student), 2021  
Bayram G., Polystyrene-based and carbon fabric-reinforced polymer composites containing carbon nanotubes: Preparation, modification and characterization, Doctorate, B.ERKMEN(Student), 2020  
Bayram G., Dilek Hacıhabiboğlu Ç., MULTIFUNCTIONAL PROPERTIES OF POLYMER FOAMS AND COMPOSITES, Doctorate, M.ÖZKUTLU(Student), 2020  
Bayram G., Development of Core/Shell Structured Composite Nanofibers via Coaxial Electrospinning Method, Postgraduate, R.BARIŞ(Student), 2019  
Bayram G., Epoxy-Based Composites and Coatings: Improvement of Multifunctional Properties, Postgraduate, A.ÇALDIKLIOĞLU(Student), 2019  
BAYRAM G., Electrospun polyamide-6 and polyamide-6/halloysite nanotubes composite nanofibers: Parameter optimization and characterization, Postgraduate, S.ŞAHİN(Student), 2018  
SEZGİ N. A., BAYRAM G., Preparation and characterization of polymer composites containing boron compounds, Postgraduate, E.TOPÇUOĞLU(Student), 2016  
SEZGİ N. A., BAYRAM G., Polystyrene/boron nitride nanotube composites: Synthesis, processing and characterization, Postgraduate, E.BALIK(Student), 2015  
Erel Göktepe İ., Bayram G., Piezoelectric properties of polyelectrolyte multilayer films, Postgraduate, Ö.SEVER(Student), 2015  
BAYRAM G., Performance of modified thermoplastic poly(ether)ester elastomer in multilayer composites, Postgraduate, M.YAŞAR(Student), 2014  
BAYRAM G., Preparation of epoxy-based composites containing barium metaborate and their characterization, Postgraduate, E.YÜREKLİ(Student), 2014  
BAYRAM G., Production of flame retardant polyester composites and fibers, Postgraduate, M.AKAN(Student), 2013  
BAYRAM G., Shape memory polymer composites containing carbon based fillers, Postgraduate, İ.ŞENGÖR(Student), 2013  
BAYRAM G., PREPARATION AND CHARACTERIZATION OF SHAPE MEMORY POLYMER BASED COMPOSITE MATERIALS FOR AEROSPACE APPLICATIONS, Postgraduate, F.NUR(Student), 2012  
BAYRAM G., Silicon-based preceramic polymers and their uses in polymer composites: Synthesis, characterization and processing, Postgraduate, S.DÖNMEZ(Student), 2011  
BAYRAM G., Processing and characterization of carbon nanotube based conductive polymer composites, Doctorate, S.YEŞİL(Student), 2010  
BAYRAM G., Synthesis and characterization of nano zinc borate and its usage as a flame retardant for polymers, Postgraduate, B.BALTACI(Student), 2010  
BAYRAM G., Synthesis and characterization of nano zinc borate and its usage as a flame retardant for polymers, Postgraduate, B.Baltacı(Student), 2010  
SEZGİ N. A., BAYRAM G., Production of boron nitride nanotubes and their uses in polymer composites, Postgraduate, C.DEMİR(Student), 2010

BAYRAM G., Poli(eter ester) / çinko oksit kompozitleri: Sentezi, prosesi ve karakterizasyonu, Doctorate, H.ÇELEBİ(Student), 2010

BAYRAM G., Production and characterization of boron-based additives and the effect of flame retardant additives on PET-based composites, Doctorate, M.KILINÇ(Student), 2009

BAYRAM G., TINCER İ. T., Preparation and characterization of micron size serpentine filled ABS, Postgraduate, M.CAN(Student), 2008

BAYRAM G., ULUDAĞ Y., Production and development of de/anti icing fluids for aircraft, Postgraduate, B.ERDOĞAN(Student), 2008

BAYRAM G., Electrochemical synthesis of poly(methylsilyne), and the effect of silicon-based preceramic polymers on the properties of polypropylene based composites, Postgraduate, D.EROĞLU(Student), 2008

BAYRAM G., Preparation and characterization of conductive polymer composites, and their assessment for electromagnetic interference shielding materials and capacitors, Doctorate, Ö.KÖYSÜREN(Student), 2008

BAYRAM G., YILMAZER Ü., Impact modified polyamide-organoclay nanocomposites, Doctorate, I.IŞIK(Student), 2007

BAYRAM G., ABS/polyamide-6 blends, their short glass fiber composites and organoclay based nanocomposites: Processing and characterization, Doctorate, G.ÖZKOÇ(Student), 2007

BAYRAM G., Self reinforcement of poly (ethylene terephthalate) and polyethylene blends, Postgraduate, C.KURTULUŞ(Student), 2007

BAYRAM G., Self reinforcement of poly(ethylene terephthalate) and polyethylene blends, Postgraduate, C.Kurtuluş(Student), 2007

BAYRAM G., YILMAZER Ü., Conductive coating materials, Postgraduate, İ.ÇAKAR(Student), 2006

BAYRAM G., ÖZGEN C., Inferential model predictive control of poly(ethylene terephthalate) degradation during extrusion, Postgraduate, M.OLUŞ(Student), 2006

BAYRAM G., ULUDAĞ Y., Experimental investigation of drag reduction effects of polymer additives on turbulent pipe flow, Postgraduate, Ş.ZEYBEK(Student), 2005

BAYRAM G., Preparation and characterization of fiber reinforced poly(ethylene terephthalate), Postgraduate, C.Altan(Student), 2004

BAYRAM G., Preparation and characterization of glass fiber reinforced poly (ethylene terephthalate), Postgraduate, C.ALTAN(Student), 2004

BAYRAM G., Processing and characterization of poly (ethylene terephthalate) based composites, Postgraduate, M.KILINÇ(Student), 2004

BAYRAM G., Adhesion between poly (ethylene terephthalate) and polyethylene, Postgraduate, H.DURGUN(Student), 2003

BAYRAM G., YILMAZER Ü., Epoxy based nanocomposites materials., Postgraduate, Ç.BAŞARA(Student), 2002

BAYRAM G., YILMAZER Ü., Impact modification of nanocomposites with epoxy matrix., Postgraduate, I.IŞIK(Student), 2002

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Assessment of mechanical properties and morphology of polylactic acid/acrylonitrile butadiene styrene blends and their carbon fabric-reinforced composites**  
Ozturk I., BAYRAM G.  
Journal of Polymer Research, vol.31, no.6, 2024 (SCI-Expanded)
- II. **Role of formulation additives on the properties of thermoplastic polyether ester elastomer-based and carbon fabric-reinforced multilayer composites**  
Yasar M., Celebi H., BAYRAM G.  
Journal of Thermoplastic Composite Materials, vol.36, no.7, pp.2757-2776, 2023 (SCI-Expanded)
- III. **Controlling the foam morphology of supercritical CO<sub>2</sub>-processed poly(methyl methacrylate) with CO<sub>2</sub>-philic hybrid nanoparticles**  
Özkutlu Demirel M., Bayram G., Dilek Hacıhabiboğlu Ç.  
Journal of Applied Polymer Science, vol.138, no.33, 2021 (SCI-Expanded)

- IV. **Poly(methyl methacrylate)-octatrimethylsiloxy polyhedral oligomeric silsesquioxane composite syntactic foams with bimodal pores**  
Ozkutlu M., Bayram G., Dilek Hacıhabiboğlu Ç.  
Journal of Polymer Research, vol.28, no.6, 2021 (SCI-Expanded)
- V. **Improvement in mechanical, electrical, and shape memory properties of the polystyrene-based carbon fiber-reinforced polymer composites containing carbon nanotubes**  
ERKMEN B., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.23, 2021 (SCI-Expanded)
- VI. **Effects of mixing sequence on epoxy/polyether polyol/organoclay ternary nanocomposites**  
Isik-Gulsac I., YILMAZER Ü., BAYRAM G.  
PLASTICS RUBBER AND COMPOSITES, vol.49, no.8, pp.368-377, 2020 (SCI-Expanded)
- VII. **Effect of halloysite nanotubes on multifunctional properties of coaxially electrospun poly(ethylene glycol)/polyamide-6 nanofibrous thermal energy storage materials**  
Yilmaz R. B., BAYRAM G., YILMAZER Ü.  
THERMOCHIMICA ACTA, vol.690, 2020 (SCI-Expanded)
- VIII. **Synthesis of zinc borate using water soluble additives: Kinetics and product characterization**  
ÇAKAL G. Ö., Baltacı B., BAYRAM G., ÖZKAR S., EROĞLU İ.  
JOURNAL OF CRYSTAL GROWTH, vol.533, 2020 (SCI-Expanded)
- IX. **Poly(methyl methacrylate) hybrid syntactic foams with hollow glass microspheres and polyhedral oligomeric silsesquioxanes**  
Ozkutlu M., Dilek Ç., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.7, 2020 (SCI-Expanded)
- X. **Effects of hollow glass microsphere density and surface modification on the mechanical and thermal properties of poly(methyl methacrylate) syntactic foams**  
ÖZKUTLU DEMİREL M., DİLEK HACIHABİBOĞLU Ç., BAYRAM G.  
COMPOSITE STRUCTURES, vol.202, pp.545-550, 2018 (SCI-Expanded)
- XI. **Influence of Zinc Oxide on Thermoplastic Elastomer-Based Composites: Synthesis, Processing, Structural, and Thermal Characterization**  
ÇELEBİ H., BAYRAM G., DOĞAN A.  
POLYMER COMPOSITES, vol.37, no.8, pp.2369-2376, 2016 (SCI-Expanded)
- XII. **Flame retardancy and mechanical properties of pet-based composites containing phosphorus and boron-based additives**  
Kilinc M., ÇAKAL G. Ö., BAYRAM G., Eroglu I., ÖZKAR S.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.132, no.22, 2015 (SCI-Expanded)
- XIII. **Molecular weight control of poly(ethylene terephthalate) in extrusion process**  
Ozbek M. O., BAYRAM G., ÖZGEN C.  
POLYMER ENGINEERING AND SCIENCE, vol.54, no.2, pp.459-465, 2014 (SCI-Expanded)
- XIV. **Experimental investigation of drag reduction effects of polymer additives on turbulent pipe flow using ultrasound Doppler velocimetry**  
Zeybek Vural S., BAYRAM G., ULUDAĞ Y.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.1, pp.142-151, 2014 (SCI-Expanded)
- XV. **Effect of ZnO type and concentration on the morphology, thermal, and mechanical properties of poly(ether ester)/ZnO composites**  
ÇELEBİ H., BAYRAM G., DOĞAN A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.129, no.6, pp.3417-3424, 2013 (SCI-Expanded)
- XVI. **Surfactant modified zinc borate synthesis and its effect on the properties of PET**  
Baltacı B., ÇAKAL G. Ö., BAYRAM G., Eroglu I., ÖZKAR S.  
POWDER TECHNOLOGY, vol.244, pp.38-44, 2013 (SCI-Expanded)
- XVII. **Impact damage sensing of multiscale composites through epoxy matrix containing carbon nanotubes**  
Arronche L., La Saponara V., Yesil S., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.128, no.5, pp.2797-2806, 2013 (SCI-Expanded)

- XVIII. **Effects of Addition Order of the Components on Polyamide-6/Organoclay/Elastomer Ternary Nanocomposites**  
Isik-Gulsac I, YILMAZER Ü, BAYRAM G.  
ADVANCES IN POLYMER TECHNOLOGY, vol.32, 2013 (SCI-Expanded)
- XIX. **Effect of carbon nanotube surface treatment on the morphology, electrical, and mechanical properties of the microfiber-reinforced polyethylene/poly(ethylene terephthalate)/carbon nanotube composites**  
Yesil S., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.127, no.2, pp.982-991, 2013 (SCI-Expanded)
- XX. **Mechanical and rheological properties, and morphology of polyamide-6/organoclay/elastomer nanocomposites**  
Isik-Gulsac I, YILMAZER Ü, BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.125, no.5, pp.4060-4073, 2012 (SCI-Expanded)
- XXI. **Poly(ethylene terephthalate)/Carbon Nanotube Composites Prepared With Chemically Treated Carbon Nanotubes**  
Yesil S., BAYRAM G.  
POLYMER ENGINEERING AND SCIENCE, vol.51, no.7, pp.1286-1300, 2011 (SCI-Expanded)
- XXII. **Effect of Carbon Nanotube Purification on the Electrical and Mechanical Properties of Poly(ethylene terephthalate) Composites with Carbon Nanotubes in Low Concentration**  
Yesil S., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.119, no.6, pp.3360-3371, 2011 (SCI-Expanded)
- XXIII. **Electrochemical Synthesis of Poly(methylsilyne) and Investigation of the Effects of Parameters on the Synthesis**  
EROĞLU PALA D., Nur Y., BAYRAM G., TOPPARE L. K.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.118, no.5, pp.3049-3057, 2010 (SCI-Expanded)
- XXIV. **Effect of Solid State Grinding on Properties of PP/PET Blends and Their Composites with Carbon Nanotubes**  
Koysuren O., Yesil S., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.118, no.5, pp.3041-3048, 2010 (SCI-Expanded)
- XXV. **Effect of Microfiber Reinforcement on the Morphology, Electrical, and Mechanical Properties of the Polyethylene/Poly(ethylene terephthalate)/Carbon Nanotube Composites**  
Yesil S., Koysuren O., BAYRAM G.  
POLYMER ENGINEERING AND SCIENCE, vol.50, no.11, pp.2093-2105, 2010 (SCI-Expanded)
- XXVI. **Scale-up synthesis of zinc borate from the reaction of zinc oxide and boric acid in aqueous medium**  
Kilinc M., Cakal G. O., Yesil S., BAYRAM G., EROĞLU İ., ÖZKAR S.  
JOURNAL OF CRYSTAL GROWTH, vol.312, no.22, pp.3361-3366, 2010 (SCI-Expanded)
- XXVII. **Surfactant-modified multiscale composites for improved tensile fatigue and impact damage sensing**  
Yesil S., Winkelmann C., BAYRAM G., La Saponara V.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.527, pp.7340-7352, 2010 (SCI-Expanded)
- XXVIII. **Crosslinked DADMAC polymers as cationic super absorbents**  
Korpe S., Erdogan B., BAYRAM G., ÖZGEN S., ULUDAĞ Y., Bıçak N.  
REACTIVE & FUNCTIONAL POLYMERS, vol.69, no.9, pp.660-665, 2009 (SCI-Expanded)
- XXIX. **Preparation and Comparison of Two Electrodes for Supercapacitors: Pani/CNT/Ni and Pani/Alizarin-Treated Nickel**  
Koysuren O., Du C., Pan N., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.113, no.2, pp.1070-1081, 2009 (SCI-Expanded)
- XXX. **Batteries and a Pinch of Salt: A Simple Toolkit for the Production of Poly(methylsilyne)**  
Eroglu D., Nur Y., Soenmez U., Bayram G., Pitcher M. W., TOPPARE L. K.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.112, no.6, pp.3519-3521, 2009 (SCI-Expanded)
- XXXI. **Effect of a carbon black surface treatment on the microwave properties of poly(ethylene**

- terephthalate)/carbon black composites**  
Koysuren O., Yesil S., BAYRAM G., Secmen M., Civi Z. A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.109, no.1, pp.152-159, 2008 (SCI-Expanded)
- XXXII. **Effect of a carbon black surface treatment on the microwave properties of poly ethylene terephthalate carbon black composites**  
Köysüren Ö., Yeşil S., BAYRAM G., SEÇMEN M., AYDIN ÇİVİ H. Ö.  
Journal of Applied Polymer Science, vol.109, pp.152-159, 2008 (SCI-Expanded)
- XXXIII. **Impact essential work of fracture toughness of ABS/polyamide-6 blends compatibilized with olefin based copolymers**  
Ozkoc G., BAYRAM G., Bayramli E.  
JOURNAL OF MATERIALS SCIENCE, vol.43, no.8, pp.2642-2652, 2008 (SCI-Expanded)
- XXXIV. **Microcompounding of organoclay-ABS/PA6 blend-based nanocomposites**  
Ozkoc G., BAYRAM G., Tiesnitsch J.  
POLYMER COMPOSITES, vol.29, no.4, pp.345-356, 2008 (SCI-Expanded)
- XXXV. **Effects of microcompounding process parameters on the properties of ABS/polyamide-6 blends based nanocomposites**  
Ozkoc G., Bayram G., Quaedflieg M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.107, no.5, pp.3058-3070, 2008 (SCI-Expanded)
- XXXVI. **Impact modified polyamide-6/organoclay nanocomposites: Processing and characterization**  
Isik I., YILMAZER Ü., BAYRAM G.  
POLYMER COMPOSITES, vol.29, no.2, pp.133-141, 2008 (SCI-Expanded)
- XXXVII. **INOR 396-Batteries and a pinch of salt: A simple toolkit for the production of poly(methylsilyne), a precursor to silicon carbide ceramics**  
Pitcher M. W., Soenmez U., Eroglu D., Nur Y., Bayram G., Toppare L.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.234, 2007 (SCI-Expanded)
- XXXVIII. **Effect of surface treatment on electrical conductivity of carbon black filled conductive polymer composites**  
Koysuren O., Yesil S., Bayram G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.5, pp.3427-3433, 2007 (SCI-Expanded)
- XXXIX. **Processing and characterization of multilayer films of poly(ethylene terephthalate) and surface-modified poly(tetrafluoroethylene)**  
Bayram G., Ozkoc G.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.21, no.9, pp.883-898, 2007 (SCI-Expanded)
- XL. **Effects of olefin-based compatibilizers on the morphology, thermal and mechanical properties of ABS/polyamide-6 blends**  
Ozkoc G., Bayram G., Bayramli E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.2, pp.926-935, 2007 (SCI-Expanded)
- XLI. **Effect of composite preparation techniques on electrical and mechanical properties and morphology of nylon 6 based conductive polymer composites**  
Koysuren O., Yesil S., Bayram G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.3, pp.2520-2526, 2006 (SCI-Expanded)
- XLII. **Short glass fiber reinforced ABS and ABS/PA6 composites: Processing and characterization**  
Ozkoc G., Bayram G., Bayramli E.  
POLYMER COMPOSITES, vol.26, no.6, pp.745-755, 2005 (SCI-Expanded)
- XLIII. **Synthesis and characterization of epoxy based nanocomposites**  
Basara G., Yilmazer U., Bayram G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.98, no.3, pp.1081-1086, 2005 (SCI-Expanded)
- XLIV. **Improvement of adhesion between poly(ethylene terephthalate) and polyethylene**  
Durgun H., Bayram G.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.19, no.6, pp.407-425, 2005 (SCI-Expanded)
- XLV. **Effects of polyamide 6 incorporation to the short glass fiber reinforced ABS composites: an**

### **interfacial approach**

Ozkoc G., Bayram G., Bayramli E.

POLYMER, vol.45, no.26, pp.8957-8966, 2004 (SCI-Expanded)

- XLVI. **Influence of fat content and emulsifier type on the rheological properties of cake batter**  
Sakiyan O., Sumnu G., Sahin S., Bayram G.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.219, no.6, pp.635-638, 2004 (SCI-Expanded)
- XLVII. **Effects of processing parameters on mechanical and thermal properties of glass mat reinforced nylon 6 composites**  
Akkaoui W., Bayram G.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.23, no.8, pp.881-892, 2004 (SCI-Expanded)
- XLVIII. **Impact modified epoxy/montmorillonite nanocomposites: synthesis and characterization**  
Isik I., Yilmazer U., Bayram G.  
POLYMER, vol.44, no.20, pp.6371-6377, 2003 (SCI-Expanded)
- XLIX. **Viscoelastic characteristics of chain extended/branched and linear polyethylene terephthalate resins**  
Yilmazer U., Xanthos M., Bayram G., Tan V.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.75, no.11, pp.1371-1377, 2000 (SCI-Expanded)
- L. **Viscoelastic properties of suspensions with weakly interacting particles**  
BAYRAM G., Yilmazer U., Orbey N.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.70, no.3, pp.507-514, 1998 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **Flame retardancy and mechanical properties of polypropylene composites containing intumescent flame retardants, preceramic polymers, and other additives**  
Donmez S., Tuzenli Z., BAYRAM G., SAVAŞKAN YILMAZ S.  
SPE Polymers, 2024 (Scopus)
- II. **Erkmen B., Bayram G.**  
SPE Polymers, vol.3, pp.163-175, 2022 (Scopus)
- III. **Şekillendirilebilir Hava Aracı Konseptleri**  
Özgen S., Yaman Y., Bayram G., Şahin M., Yılmaz A., Uludağ Y.  
Savunma Sanayii Gündemi, vol.2010, no.2, pp.56-65, 2010 (Non Peer-Reviewed Journal)
- IV. **Şekil Değiştiren Uçaklar Havacılıkta Yeni Bir Devrim Yaratabilir mi?**  
Yaman Y., Özgen S., Seber G., Şahin M., Bayram G., Uludağ Y., Yılmaz A.  
Savunma ve Havacılık Dergisi, vol.22, no.126, pp.125-128, 2008 (Non Peer-Reviewed Journal)
- V. **Şekil Değiştiren Uçaklar Havacılıkta Yeni Bir Devrim Yaratabilir mi**  
ÖZGEN S., GÜÇLÜ S., ŞAHİN M., YAMAN Y., BAYRAM G., ULUDAĞ Y., YILMAZ A.  
Savunma ve Havacılık, vol.22126, pp.125-128, 2008 (Non Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **ABS-Fly Ash Composite Filaments for Fused Deposition Modeling**  
Alduais A., Kazanç Özerinç F., Bayram G., Özerinç S.  
2nd International Conference on Recent Advances in Manufacturing, RAM 2021, Surat, India, 10 - 12 June 2021, pp.85-95
- II. **PMMA Syntactic Bimodal Foams with CO<sub>2</sub>-Philic Octatrimethylsiloxy POSS Cell Nucleators**  
Ozkutlu M., BAYRAM G., DİLEK HACIHABİBOĞLU Ç.  
18th European Meeting on Supercritical Fluids, France, 04 May 2021
- III. **Polystyrene/Boron Nitride Nanotube Composites: Preparation and Characterization**

BALIK E., BAYRAM G., SEZGİ N. A.

35th INTERNATIONAL CONFERENCE of THE POLYMER PROCESSING SOCIETY (PPS-35), İzmir, Turkey, 26 - 30 May 2019

- IV. **Improvement of Adhesion between the Layers of Polystyrene-Based Carbon Fabric-Reinforced Composites**  
ERKMEN B., BAYRAM G.  
35th INTERNATIONAL CONFERENCE of THE POLYMER PROCESSING SOCIETY (PPS-35), İzmir, Turkey, 26 - 30 May 2019
- V. **Improvements in Multifunctional Properties of Epoxy/TiO<sub>2</sub> Composites and Coatings**  
ÇALDIKLIOĞLU A., BAYRAM G., YILMAZER Ü.  
35th INTERNATIONAL CONFERENCE of THE POLYMER PROCESSING SOCIETY (PPS-35), İzmir, Turkey, 26 - 30 May 2019
- VI. **Highly CO<sub>2</sub>-philic polyhedral oligomeric silsesquioxanes (POSS) as hybrid cell nucleators for more efficient supercritical carbon dioxide foaming of poly(methyl methacrylate) (PMMA)**  
Özkutlu Demirel M., Bayram G., Dilek Hacıhabiboğlu Ç.  
17th European Meeting on Supercritical Fluids EMSF 2019, Ciudad Real, Spain, 8 - 11 April 2019
- VII. **Enhancement of Properties of PMMA Hybrid Syntactic Foams Containing Polyhedral Oligomeric Silsesquioxane (POSS)**  
Özkutlu Demirel M., Dilek Hacıhabiboğlu Ç., Bayram G.  
21st International conference on composite structures, ICCS21, Bologna, Italy, 4 - 07 September 2018, vol.1, pp.41-42
- VIII. **Enhancement of Properties of PMMA Hybrid Syntactic Foams Containing Polyhedral Oligomeric Silsesquioxane (POSS)**  
ÖZKUTLU DEMİREL M., DİLEK HACIHABİBOĞLU Ç., BAYRAM G.  
21th International conference on composite structures, 4 - 07 September 2018
- IX. **Influence of Material Parameters on Electrospun Polyamide 6-Based Composite Nanofibers**  
Şahin S., BAYRAM G.  
NANOTR-13, Turkey, 22 - 25 October 2017
- X. **Impact Modified Polystyrene-Based Nanocomposites: Mechanical and Shape Memory Properties**  
ERKMEN B., BAYRAM G.  
NANOTR-13, Turkey, 22 - 25 October 2017
- XI. **Mechanical and Thermal Characterization of PMMA Syntactic Foams**  
ÖZKUTLU M., DİLEK Ç., BAYRAM G.  
20th International Conference on Composite Structures, ICCS 20, Paris, France, 4 - 07 September 2017
- XII. **Polypropylene Boron Nitride Nanotube Composites Synthesis Modification Processing and Characterization**  
Sezgi N. A., Bayram G., Demir C.  
2016 MRS Fall Meeting, Massachusetts, United States Of America, 27 November - 02 December 2016
- XIII. **Polistiren Bazlı Çok Katmanlı Kompozitlerin Hazırlanması ve Özelliklerinin Geliştirilmesi**  
ERKMEN B., BAYRAM G.  
6. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Turkey, 4 - 07 September 2016
- XIV. **Poli metil metakrilat Köpük Üretimi ve Karakterizasyonu**  
ÖZKUTLU M., DİLEK Ç., BAYRAM G.  
12. Ulusal Kimya Mühendisliği Kongresi (UKMK 12), İzmir, Turkey, 23 - 26 August 2016
- XV. **Epoxybased Shape Memory Composites Containing Carbonbased Additives**  
Şengör İ., KÖYSÜREN Ö., BAYRAM G.  
1st International Conference on Advances in Functional Materials (AFM 2015), 29 June - 01 July 2015
- XVI. **Piezoelectric Properties of Layer by Layer Films**  
OZLEM S., UMİT C., EREL GÖKTEPE İ., BAYRAM G., ORAL A.  
11th Nanoscience and Nanotechnology Conference (NanoTR-11), Turkey, 22 - 25 June 2015
- XVII. **Preparation and characterization of poly(ethylene terephthalate)/carbon nanotube composites with**



### **surface modified carbon nanotubes**

Yesil S., BAYRAM G.

68th Annual Technical Conference of the Society of Plastics Engineers 2010, ANTEC 2010, Orlando, FL, United States Of America, 16 - 20 May 2010, vol.3, pp.1779-1785

### **XVIII. Morphing Air Vehicle Concepts**

ÖZGEN S., YAMAN Y., ŞAHİN M., GÜÇLÜ S., KÖRPE D. S., EVREN S., ERDOĞAN TOLGA İ., ÜNLÜSOY L., BAYRAM G., ULUDAĞ Y., et al.

UVW2010, International Unmanned Vehicle Workshop, İstanbul, Turkey, 10 - 12 June 2010

### **XIX. ODTÜ de Sürdürülen İnsansız Hava Aracı Çalışmaları**

YAMAN Y., ÖZGEN S., ŞAHİN M., GÜÇLÜ S., VOLKAN N., EVREN S., ERDOĞAN TOLGA İ., ÜNLÜSOY L., BAYRAM G., ULUDAĞ Y., et al.

TMMOB Makina Mühendisleri Odası, V. Ulusal Uçak, Havacılık ve Uzay Mühendisliği Kurultayı, Eskişehir, Turkey, 22 - 23 May 2009

## **Other Publications**

### **I. Influence of nanocomposite preparation techniques on the multifunctional properties of carbon fabric-reinforced polystyrene-based composites with carbon nanotubes**

Erkmen B., Bayram G.

Other, pp.163-175, 2022

## **Supported Projects**

BAYRAM G., AŞCI E. Ü., Project Supported by Higher Education Institutions, Poli(Laktik Asit) ve Poli(Laktik Asit)- Polietilen Glikol Karışımı Nanofiberlerin Elektroeğirme Metodu ile Prosesi ve Karakterizasyonu, 2020 - 2022

BAYRAM G., ÖZTÜRK İ., Project Supported by Higher Education Institutions, Poli(laktik asit) Bazlı Polimer Tabakasının Çok Katmanlı Kompozitlerde Kullanılmak Üzere Geliştirilmesi, 2020 - 2021

BAYRAM G., BARIŞ YILMAZ R., Project Supported by Higher Education Institutions, ELEKTRO EĞİRME PROSESİ İLE ŞEKİL HAFIZALI POLİMER KOMPOZİT NANOFİBERLERİN GELİŞTİRİLMESİ, 2018 - 2019

BAYRAM G., ÇALDIKLIOĞLU A., Project Supported by Higher Education Institutions, EPOKSİ/GRAFİT KOMPOZİT KAPLAMA: ÇOKLU FONKSİYONEL ÖZELLİKLERİNİN GELİŞTİRİLMESİ, 2018 - 2019

BAYRAM G., ERKMEN B., Project Supported by Higher Education Institutions, ELEKTROAKTİF POLİMER KOMPOZİTLERİ: HAZIRLANMASI VE KARAKTERİZASYONU, 2018 - 2019

BAYRAM G., ÖZKUTLU M., Project Supported by Higher Education Institutions, POLİ (METİL METAKRİLAT) - BAZLI SENTETİK KÖPÜK ÜRETİMİ VE KARAKTERİZASYONU, 2018 - 2019

ÖZKAN N., ERGÜN E. G., BAYRAM G., Project Supported by Higher Education Institutions, Polimer ve Polimer Kompozitlerin Üç Boyutlu (3D) Baskı Yöntemi ile Üretimi, 2017 - 2019

BAYRAM G., Project Supported by Higher Education Institutions, NAYLON-6/HALOYSİT NANOTÜP KOMPOZİTLERİNİN BOZUNMAYA DAYANIM ÖZELLİKLERİNİN ARAŞTIRILMASI, 2017 - 2017

BAYRAM G., Project Supported by Higher Education Institutions, POLİ-BAZLI SENTETİK KÖPÜK ÜRETİMİ VE KARAKTERİZASYONU, 2017 - 2017

BAYRAM G., Project Supported by Higher Education Institutions, KENDİ KENDİNİ İYİLEŞTİREN EPOKSİ KOMPOZİTLERİ: HAZIRLANMASI VE KARAKTERİZASYONU, 2017 - 2017

BAYRAM G., ERKMEN B., Project Supported by Higher Education Institutions, Şekil Hafızalı Çok Katmanlı Kompozitlerin Hazırlanması ve Özelliklerinin Geliştirilmesi, 2016 - 2017

BAYRAM G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

BAYRAM G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

BAYRAM G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

BAYRAM G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

BAYRAM G., Şahin G., YAŞAR M., Project Supported by Higher Education Institutions, Karbon Siyahı İçeren Termoplastik Elastomer Bazlı Nanokompozitlerin Özelliklerinin Geliştirilmesi ve Çok Katmanlı Kompozitlerinin Hazırlanması, 2013 - 2015

BAYRAM G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

BAYRAM G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

BAYRAM G., BALIK E., Project Supported by Higher Education Institutions, POLİSTİREN-BOR NİTRÜR NANOTÜP KOMPOZİTLERİNİN HAZIRLANMASI VE KARAKTERİZASYONU, 2013 - 2013

BAYRAM G., YÜREKLI E., Project Supported by Higher Education Institutions, EPOKSİ/BARYUM METABORAT KOMPOZİTLERİNİN HAZIRLANMASI VE YAPISAL ÖZELLİKLERİNİN İNCELENMESİ, 2013 - 2013

BAYRAM G., Project Supported by Higher Education Institutions, Şekil Hafızalı Polimer Kompozitlerinin Hazırlanması Ve Karakterizasyonu., 2010 - 2011

## **Metrics**

Publication: 77  
Citation (WoS): 1054  
Citation (Scopus): 1175  
H-Index (WoS): 19  
H-Index (Scopus): 21

## **Non Academic Experience**

ORTA DOĞU TEKNİK ÜNİVERSİTESİ  
UNIVERSITY OF CONNECTICUT  
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