

# Prof. ÖZCAN KÖYSÜREN

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: AAJ-2389-2020

ScopusID: 12781818300

Yoksis Researcher ID: 123559

## Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya Mühendisliği (Dr), Turkey 2002 - 2008

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 1997 - 2002

## Foreign Languages

English, C1 Advanced

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Ankara University, Mühendislik Fakültesi, Enerji Ve Malzeme Mühendisliği Bölümü, 2015 - Continues

Associate Professor, Selcuk University, Faculty Of Engineering, Department Of Chemistry Engineering, 2013 - 2015

Assistant Professor, Selcuk University, Faculty Of Engineering, Department Of Chemistry Engineering, 2010 - 2013

Research Assistant, Selcuk University, Faculty Of Engineering, Department Of Chemistry Engineering, 2008 - 2010

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 2002 - 2008

## Academic and Administrative Experience

Selcuk University, 2013 - Continues

## Courses

Kimya Mühendisliği Tasarımı I , Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
Kimyasal Reaksiyon Mühendisliği II , Undergraduate, 2013 - 2014, 2012 - 2013  
Kimya Mühendisliği Tasarımı II, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
Kimya Mühendisliğinde Matematiksel Modelleme , Undergraduate, 2013 - 2014, 2012 - 2013  
Malzeme Bilgisi , Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012  
Kimyasal Reaksiyon Mühendisliği I, Undergraduate, 2013 - 2014, 2011 - 2012  
Mathematical Modelling in Chemical Engineering , Undergraduate, 2011 - 2012  
Chemical Process Calculation I, Undergraduate, 2010 - 2011  
Kimyasal Proses Hesaplamaları, Undergraduate, 2010 - 2011  
Elektrospın Prosesleri, Postgraduate, 2010 - 2011  
General Chemistry I, Undergraduate, 2010 - 2011  
Chemical Process Calculation II, Undergraduate, 2010 - 2011  
General Chemistry II, Undergraduate, 2010 - 2011  
Genel Kimya, Undergraduate, 2010 - 2011

## Advising Theses

Köysüren Ö., SELF-CLEANING SOLAR CELL COATINGS BASED ON TiO<sub>2</sub>/ZnO NANOCOMPOSITE PHOTOCATALYST, Postgraduate, M.HASAN(Student), 2023  
Köysüren Ö., Investigation of the corrosion behavior of metal electrodes used in microbial fuel cell for green energy production, Postgraduate, M.KHAMEES(Student), 2022  
KÖYSÜREN Ö., Polivinil borat sentezin; elektrospın yöntemiyle nanofiber hazırlanması ve karakterizasyonu, Postgraduate, H.DİNÇ(Student), 2013  
KÖYSÜREN Ö., Shape memory polymer composites containing carbon based fillers, Postgraduate, İ.ŞENGÖR(Student), 2013

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

- I. **SiO<sub>2</sub>/WO<sub>3</sub>/ZnO based self-cleaning coatings for solar cells**  
KÖYSÜREN Ö., Dhoska K., Koysuren H. N., Markja I., YAĞLIKÇI S., TUNÇEL B., Bebi E.  
Journal of Sol-Gel Science and Technology, vol.110, no.1, pp.183-203, 2024 (SCI-Expanded)
- II. **Synthesis of B<sub>4</sub>C powder via the carbothermal reduction and photoreduction of Cr(VI) on B<sub>4</sub>C under visible light irradiation**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
JOURNAL OF THE KOREAN CERAMIC SOCIETY, vol.60, no.5, pp.798-810, 2023 (SCI-Expanded)
- III. **Magnetically separable WO<sub>3</sub>/CuFe<sub>2</sub>O<sub>4</sub> composite for visible light induced photoreduction of Cr(VI)**  
Koysuren H. N., KÖYSÜREN Ö.  
Journal of Sol-Gel Science and Technology, vol.107, no.3, pp.671-684, 2023 (SCI-Expanded)
- IV. **Application of CuO and its composite with polyaniline on the photocatalytic degradation of methylene blue and the Cr(VI) photoreduction under visible light**  
KÖYSÜREN Ö., Koysuren H. N.  
Journal of Sol-Gel Science and Technology, vol.106, no.1, pp.131-148, 2023 (SCI-Expanded)
- V. **Photocatalytic Activity of Boron Doped CuO and Its Composite with Polyaniline**  
Koysuren H. N., Koysuren O.  
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.62, no.3, pp.281-293, 2023 (SCI-Expanded)
- VI. **Photoreduction of Cr(VI) on B<sub>4</sub>C/AgFe<sub>2</sub>O<sub>4</sub> composite**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.105, no.1, pp.220-236, 2023 (SCI-Expanded)
- VII. **Preparation and activity evaluation of B<sub>4</sub>C/ZnO composite photocatalyst**

KÖYSÜREN Ö., KÖYSÜREN H. N.

JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.103, no.1, pp.172-184, 2022 (SCI-Expanded)

- VIII. **Solid-phase photocatalytic degradation of polyaniline under UVA and UVC light irradiation**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.101, no.9, pp.1183-1191, 2021 (SCI-Expanded)
- IX. **Improving ultraviolet light photocatalytic activity of polyaniline/silicon carbide composites by Fe-doping**  
KÖYSÜREN Ö.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.14, 2020 (SCI-Expanded)
- X. **Photocatalytic Activities of Boron Doped Titanium Dioxide Nanoparticles and its Composite with Polyaniline**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.59, no.3, pp.182-195, 2020 (SCI-Expanded)
- XI. **Photocatalytic activity of polyaniline/Fe-doped TiO<sub>2</sub> composites by in situ polymerization method**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.56, no.3, pp.267-276, 2019 (SCI-Expanded)
- XII. **Preparation of polyvinyl alcohol composite nanofibers and solid-phase photocatalytic degradation of polyvinyl alcohol**  
KÖYSÜREN H. N., KÖYSÜREN Ö.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.33, no.4, pp.1411-1418, 2018 (SCI-Expanded)
- XIII. **Photocatalytic activity of polyvinyl borate/titanium dioxide composites for UV light degradation of organic pollutants**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.55, no.5, pp.401-407, 2018 (SCI-Expanded)
- XIV. **Photocatalytic activities of poly(methyl methacrylate)/titanium dioxide nanofiber mat**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.54, no.2, pp.80-84, 2017 (SCI-Expanded)
- XV. **Characterization of poly(methyl methacrylate) nanofiber mats by electrospinning process**  
KÖYSÜREN Ö., KÖYSÜREN H. N.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.53, no.11, pp.691-698, 2016 (SCI-Expanded)
- XVI. **Electrospun Polyvinyl Borate/Poly(methyl methacrylate) (PVB/PMMA) Blend Nanofibers**  
KÖYSÜREN Ö., KARAMAN M., Yildiz H. B., Koysuren H. N., Dinc H.  
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.63, no.7, pp.337-341, 2014 (SCI-Expanded)
- XVII. **Template assisted synthesis of photocatalytic titanium dioxide nanotubes by hot filament chemical vapor deposition method**  
KARAMAN M., Sariipek F., KÖYSÜREN Ö., Yildiz H. B.  
APPLIED SURFACE SCIENCE, vol.283, pp.993-998, 2013 (SCI-Expanded)
- XVIII. **Effect of noncovalent chemical modification on the electrical conductivity and tensile properties of poly(methyl methacrylate)/carbon nanotube composites**  
KÖYSÜREN Ö., KARAMAN M., Ozyurt D.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.127, no.6, pp.4557-4563, 2013 (SCI-Expanded)
- XIX. **New Amperometric Cholesterol Biosensors Using Poly(ethyleneoxide) Conducting Polymers**  
Yildiz H. B., ODACI DEMİRKOL D., Sayin S., YILMAZ M., KÖYSÜREN Ö., Kamaci M.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.50, no.10, pp.1075-1084,

2013 (SCI-Expanded)

- XX. **Self-supporting superhydrophobic thin polymer sheets that mimic the nature's petal effect**  
KARAMAN M., Cabuk N., Ozyurt D., KÖYSÜREN Ö.  
APPLIED SURFACE SCIENCE, vol.259, pp.542-546, 2012 (SCI-Expanded)
- XXI. **Preparation and characterization of polyvinyl alcohol/carbon nanotube (PVA/CNT) conductive nanofibers**  
KÖYSÜREN Ö.  
JOURNAL OF POLYMER ENGINEERING, vol.32, no.6-7, pp.407-413, 2012 (SCI-Expanded)
- XXII. **Preparation and characterization of polyvinyl borate/polyvinyl alcohol (PVB/PVA) blend nanofibers**  
KÖYSÜREN Ö., KARAMAN M., Dinc H.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.124, no.4, pp.2736-2741, 2012 (SCI-Expanded)
- XXIII. **Triggered release in lipid bilayer-capped mesoporous silica nanoparticles containing SPION using an alternating magnetic field**  
Bringas E., KÖYSÜREN Ö., Quach D. V., Mahmoudi M., Aznar E., Roehling J. D., Dolores Marcos M., Martinez-Manez R., Stroeve P.  
CHEMICAL COMMUNICATIONS, vol.48, no.45, pp.5647-5649, 2012 (SCI-Expanded)
- XXIV. **Effect of Solid State Grinding on Properties of PP/PET Blends and Their Composites with Carbon Nanotubes**  
KÖYSÜREN Ö., 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., KÖYSÜREN Ö., BAYRAM G.  
POLYMER ENGINEERING AND SCIENCE, vol.50, no.11, pp.2093-2105, 2010 (SCI-Expanded)
- XXVI. **Preparation and Comparison of Two Electrodes for Supercapacitors: Pani/CNT/Ni and Pani/Alizarin-Treated Nickel**  
KÖYSÜREN Ö., Du C., Pan N., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.113, no.2, pp.1070-1081, 2009 (SCI-Expanded)
- XXVII. **Effect of a carbon black surface treatment on the microwave properties of poly(ethylene terephthalate)/carbon black composites**  
KÖYSÜREN Ö., Yesil S., BAYRAM G., Secmen M., AYDIN ÇİVİ H. Ö.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.109, no.1, pp.152-159, 2008 (SCI-Expanded)
- XXVIII. **Effect of surface treatment on electrical conductivity of carbon black filled conductive polymer composites**  
KÖYSÜREN Ö., Yesil S., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.5, pp.3427-3433, 2007 (SCI-Expanded)
- XXIX. **Effect of composite preparation techniques on electrical and mechanical properties and morphology of nylon 6 based conductive polymer composites**  
KÖYSÜREN Ö., Yesil S., BAYRAM G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.3, pp.2520-2526, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Improving UV Light Photocatalytic Activity of WO<sub>3</sub> by Doping with Boron and Compounding with Polypyrrole**  
KÖYSÜREN H. N., KÖYSÜREN Ö.  
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.13, no.1, 2023 (ESCI)
- II. **Effect of Fe doping on photocatalytic activity of B<sub>2</sub>O<sub>3</sub> processed using polyvinyl borate precursor**  
KÖYSÜREN Ö.  
BOR DERGİSİ, vol.4, no.4, pp.187-195, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

### I. Enhancement of Photocatalytic Activity of WO<sub>3</sub> By Coupling TiO<sub>2</sub>

KÖYSÜREN H. N., KÖYSÜREN Ö.

in: Engineering Sciences New Trends, Concepts and Research, Assoc. Prof. Dr. Halil İbrahim Kurt, Editor, Livre de Lyon, Lyon, pp.93-105, 2021

## Refereed Congress / Symposium Publications in Proceedings

### I. of

Köysüren Ö., Köysüren H. N.

CATALYSIS, CHEMICAL ENGINEERING AND GREEN CHEMISTRY, Tokyo, Japan, 22 - 23 May 2023, pp.117-118

### II. Enhancing the Photocatalytic Performance of Titanium Dioxide Photocatalyst with Polyaniline

KÖYSÜREN Ö., KÖYSÜREN H. N.

4th International Scientific Research Congress (UBAK 2019), Yalova, Turkey, 14 - 17 February 2019

### III. Photocatalytic Degradation of Methylene Blue by Polyvinyl Borate/Titanium dioxide Composite

KÖYSÜREN Ö., KÖYSÜREN H. N.

The International Conference on Material Science and Technology in Cappadocia (IMSTEC 2018), Nevşehir, Turkey, 17 - 19 September 2018

### IV. Polyvinyl alcohol Composite Nanofiber Mat and Its Photocatalytic Degradation

KÖYSÜREN Ö., KÖYSÜREN H. N.

The International Conference on Materials Science Mechanical and Automation Engineerings and Technology in Çeşme, İzmir, Turkey, 10 - 12 April 2018

### V. Processing and Surface Characterization of Poly(vinyl alcohol) Nanofiber Mats

KÖYSÜREN H. N., KÖYSÜREN Ö.

2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Turkey, 11 - 13 October 2017

### VI. Effect of Electrospinning Process Parameters on the Morphology, the Water Wetting Property and Dye Adsorption Property of Poly(methyl methacrylate) Nanofiber Mats

KÖYSÜREN Ö., KÖYSÜREN H. N.

2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017

### VII. Modification of Apricot Kernel Shells to Remove Cr(VI) Ions in Aquatic Medium

KÖYSÜREN H. N., KÖYSÜREN Ö., DURSUN Ş.

Ancon 2017 - International Congress on Chemistry and Materials Science, Ankara, Turkey, 5 - 07 October 2017

### VIII. Solid-Phase Photocatalytic Degradation of PMMA/TiO<sub>2</sub> Composite Nanofiber Film

KÖYSÜREN Ö., KÖYSÜREN H. N.

Ancon 2017 - International Congress on Chemistry and Materials Science, Ankara, Turkey, 5 - 07 October 2017

### IX. Immobilization of TiO<sub>2</sub> Nanoparticles in PMMA Nanofiber Mat for Photocatalytic Removal of Dyes from Water

KÖYSÜREN Ö., KÖYSÜREN H. N.

Polymer Processing Society (PPS) Europe Africa Conference 2017, Dresden, Germany, 26 - 28 June 2017

### X. Electrospun Nanofibers with CdTe QDs, CdTeSe QDs and CdTe/CdS Core-shell QDs

BAŞLAK C., KÖYSÜREN Ö., Kus M.

7th IEEE International Conference Nanomaterials - Application and Properties (NAP), Odessa, Ukraine, 10 - 15 September 2017

### XI. Yüzey İşleminin Karbon nanotüp Polimer Kompozitlerin Özelliklerine Etkisi

KÖYSÜREN H. N., KÖYSÜREN Ö., Koca M., Çıtlak B., Altın O.

Uluslararası Malzeme Bilimi ve Teknolojisi Konferansı Kapadokya (IMSTEC'16), 6 - 08 April 2016

### XII. Elektroegirme Prosesi ile Hidrofobik Nanofiber Kaplamalar

KÖYSÜREN Ö., KÖYSÜREN H. N., Duran C., Arslan İ.

Uluslararası Malzeme Bilimi ve Teknolojisi Konferansı Kapadokya (IMSTEC'16), Nevşehir, Turkey, 6 - 08 April 2016

- XIII. **Effect of Non Covalent Chemical Modification on the Electrical Conductivity and Tensile Properties of Poly methylmethacrylate Carbon Nanotube Composites**  
KARAMAN M., KÖYSÜREN Ö., Özyurt D.  
Annual Technical Conference (ANTEC), Cincinnati, 22 - 24 April 2013
- XIV. **Electrospun Polyvinyl Borate Poly Methyl Methacrylate PVB PMMA Blend Nanofibers**  
KÖYSÜREN H. N., KÖYSÜREN Ö., Dinç H.  
Antec 2013, Cincinnati, United States Of America, 22 - 24 April 2013
- XV. **Surface Functionalization of Carbonnanotubes by Moving Bed Chemical Vapor Deposition Method**  
KARAMAN M., Özyurt D., ÖZEL F., Çabuk N., KÖYSÜREN Ö., KUŞ M.  
European Materials Research Society (E-MRS) 2011, Nice, France, 9 - 13 May 2011
- XVI. **Preparation and Characterization of Electrospun Polyvinylborate Nanofibers**  
KÖYSÜREN Ö., KARAMAN M., Dinç H.  
European Materials Research Society (E-MRS) 2011, Nice, France, 9 - 13 May 2011
- XVII. **Akışkan Yataklı Kimyasal Buhar Biriktirme Yöntemi ile Karbon nanotüp Yüzey Modifikasyonu**  
KARAMAN M., KÖYSÜREN Ö.  
Dokuzuncu Ulusal Kimya Mühendisliği Kongresi (UKMK 9), Turkey, 22 - 25 June 2010
- XVIII. **Kimyasal Buhar Biriktirme Yöntemi ile Karbon Nanotüp Yüzey Modifikasyonu**  
KÖYSÜREN Ö., KARAMAN M.  
3. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Turkey, 12 - 14 May 2010
- XIX. **Effect of Surface Treatment on Electrical and Microwave Properties of Carbon Black Filled PET Based Composites**  
KÖYSÜREN Ö., Yeşil S., BAYRAM G.  
The Polymer Processing Society 24th Annual Meeting, Salerno, Italy, 15 - 19 June 2008
- XX. **Processing and Characterization of Electrically Conductive In Situ Microfibrillar Polymer Composites**  
Yeşil S., KÖYSÜREN Ö., BAYRAM G.  
The Polymer Processing Society 24th Annual Meeting, Salerno, Italy, 15 - 19 June 2008
- XXI. **In Situ Microfiber Reinforcement of Conductive Polymer Composites**  
Yeşil S., KÖYSÜREN Ö., BAYRAM G.  
Sommer Symposium Series I, Ankara, Turkey, 14 - 15 May 2007
- XXII. **Effect of Solid State Grinding Technique on Microstructured Blends of Incompatible Polymers**  
KÖYSÜREN Ö., Yeşil S., BAYRAM G.  
Sommer Symposium Series I, Ankara, Turkey, 14 - 15 May 2007
- XXIII. **Karbon Bazlı Dolgu Maddeleri Katkılı Polipropilen Kompozitlerinin Mekanik ve Elektriksel Özellikleri**  
Yeşil S., KÖYSÜREN Ö., BAYRAM G.  
Yedinci Ulusal Kimya Mühendisliği Kongresi (UKMK 7), Turkey, 5 - 08 September 2006
- XXIV. **Conductive Polymer Composites with Surface Modified Carbon Black**  
Yeşil S., KÖYSÜREN Ö., BAYRAM G.  
22nd Annual Meeting of the Polymer Processing Society, 2 - 06 July 2006
- XXV. **Karbon Bazlı Dolgu Maddesi İçeren Poli Etilen Tereftalat Kompozitlerinin Mekanik ve Elektriksel Özellikleri**  
KÖYSÜREN Ö., Yeşil S., BAYRAM G.  
I. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Turkey, 21 - 23 June 2006
- XXVI. **Preparation and Characterization of Nylon 6 Based Conductive Composites**  
KÖYSÜREN Ö., Yeşil S., BAYRAM G.  
Annual Technical Conference (ANTEC), Boston, 1 - 05 May 2005
- XXVII. **Naylon 6 Karbon Siyahı Kompozitlerinin Mekanik ve Elektriksel Özellikleri**  
KÖYSÜREN Ö., BAYRAM G.  
Altıncı Ulusal Kimya Mühendisliği Kongresi (UKMK 6), Turkey, 7 - 10 September 2004

## Supported Projects

Köysüren Ö., Köysüren H. N., Yağlıkçı S., Tunçel B., TÜBİTAK International Bilateral Joint Cooperation Program Project, Günes Hücreleri İçin Kendi Kendini Temizleyen Kaplamaların Hazırlanması, 2023 - 2024

Köysüren Ö., Köysüren H. N., TUBITAK Project, Manyetik B4C/AgFe2O4 Heterojonksiyon Yapısı İle Fotoindirgeme Yöntemi Kullanılarak Çözelti Ortamından Toksik Cr (VI) İyonlarının Giderimi, 2022 - 2023

Köysüren Ö., Köysüren H. N., Project Supported by Higher Education Institutions, Photocatalytic Removal of Organic Dyes from Water using Copper Oxide and Polyaniline/Copper Oxide Composites, 2022 - 2023

Duman E., Köysüren Ö., Soysal K., Yağlıkçı S., TUBITAK Project, Elektronik Atıkların Geri Dönüşümünden Elde Edilen Mıknatıs Tozları Kullanılarak Eklemeli Üretim Yöntemi İle Kalıcı Mıknatıs Üretimi, 2021 - 2022

## Metrics

Publication: 59

Citation (WoS): 486

Citation (Scopus): 418

H-Index (WoS): 14

H-Index (Scopus): 12

## Awards

Köysüren Ö., Ankara Üniversitesi Mühendislik Fakültesi "Mühendislik Başarı Ödülü"/2023, Ankara Üniversitesi Mühendislik Fakültesi, February 2023