

## Prof. SEDAT ÖZDEN

### Personal Information

**Office Phone:** [+90 352 207 6666](tel:+903522076666) Extension: 32151

**Office Phone:** [+90 352 207 6666](tel:+903522076666) Extension: 14511

**Email:** [ozden@erciyes.edu.tr](mailto:ozden@erciyes.edu.tr)

**Web:** <https://avesis.erciyes.edu.tr/ozden/>

**Address:** Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Bölümü, Melikgazi, Kayseri

### International Researcher IDs

ORCID: 0000-0002-8299-0858

ScopusID: 7005349349

Yoksis Researcher ID: 168630

### Education Information

Doctorate, University of Ulster, Mühendislik, Makina, United Kingdom 1989 - 1994

Undergraduate, Middle East Technical University, Faculty Of Engineering, Makina, Turkey 1979 - 1985

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, INFLUENCE OF PROCESS-INDUCED STRESSES ON THE MECHANICAL BEHAVIOUR AND DIMENSIONAL STABILITY OF THERMOPLASTIC INJECTION MOULDINGS, University Of Ulster, Mühendislik Fakültesi, Makina Bölümü, 1994

### Research Areas

Technical Sciences, Mechanical Engineering, Construction and Manufacturing, Machine Elements, Metallurgical and Materials Engineering, Material science and engineering, Polymeric Materials

### Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, --, 2009 - Continues

Associate Professor, Erciyes University, Mühendislik Fakültesi, --, 2004 - 2009

Assistant Professor, Erciyes University, Mühendislik Fakültesi, --, 1995 - 2004

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

1. Investigation of the mechanical properties of the diffusion welded copper wires stacked in the same

**direction**

YASAN Ö. B., ÖZDEN S., NAİR F.

Journal of Mechanical Science and Technology, vol.37, no.1, pp.127-137, 2023 (SCI-Expanded)

- II. **INVESTIGATION OF THE WEAR BEHAVIOUR OF CRANKSHAFT JOURNAL BEARINGS AND BUSHING WITH RESPECT TO PROCESS PARAMETERS**  
ÖZDEN S., NAİR F., Kara K.  
JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.17, no.2, pp.192-205, 2011 (SCI-Expanded)
- III. **The Stabilization of Bisphenol-A Based Polycarbonate by Phosphine Oxide**  
ÖZDEN S., SHAOV A. K., CHARAEV A. M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.116, no.3, pp.1475-1482, 2010 (SCI-Expanded)
- IV. **Synthesis and Modification of Aromatic Polyesters with Chloroacetyl 3,5-Dibromo-p-hydroxybenzoic Acid**  
ÖZDEN S., CHARAYEV A. M., BAZHEVA R. C.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.111, no.4, pp.1755-1762, 2009 (SCI-Expanded)
- V. **Inhibition of thermal oxidation destruction of PBT/HDPE blends by organic compounds of five-valent phosphorus**  
ÖZDEN S., BORUKAYEV T. A., SHAOV A. K.  
INTERNATIONAL POLYMER PROCESSING, vol.23, no.3, pp.339-344, 2008 (SCI-Expanded)
- VI. **The synthesis of block copolyetherketones based on 4,4 '-dichlorodiphenylketone, phenolphthaleine, and bisphenol A and investigation of their properties**  
ÖZDEN S., CHARAYEV A. M., SHAOV A. H., BAZHEVA R. C.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.107, no.4, pp.2459-2465, 2008 (SCI-Expanded)
- VII. **The Influence of Fe/FeO Mixture on the Molecular Fluctuation Networks of Polybutyleneterephthalate**  
ÖZDEN S., BORUKAYEV T. A.  
POLYMERS & POLYMER COMPOSITES, vol.16, no.6, pp.389-394, 2008 (SCI-Expanded)
- VIII. **Compositions based on aromatic polycarbonate and metallic phosphinic acids**  
Ozden S., SHAOV A. H., CHARAYEV A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.6, pp.3628-3636, 2007 (SCI-Expanded)
- IX. **Investigation of impact behaviour of aluminium based SiC particle reinforced metal-matrix composites**  
Ozden S., Ekici R., Nair F.  
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.38, pp.484-494, 2007 (SCI-Expanded)
- X. **The conditions of minimum potential energy and Castigliano's functional in a non-linear media**  
Oshhkunov M., Ozden S.  
INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, vol.38, no.1, pp.71-77, 2003 (SCI-Expanded)
- XI. **Synthesis of block copolyetherether ketones and investigations of their properties**  
Ozden S., CHARAYEV A., SHAOV A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.85, no.3, pp.485-490, 2002 (SCI-Expanded)
- XII. **The improvement of the fracture behaviour of polybutyleneterephthalate modified by highly dispersed metals**  
Ozden S., BORUKAYEV T., MASHUKOV N., MIKITAYEV A.  
POLYMERS & POLYMER COMPOSITES, vol.10, no.3, pp.249-255, 2002 (SCI-Expanded)
- XIII. **High impact thermally stable block copolyethers**  
Ozden S., CHARAYEV A., SHAOV A.  
JOURNAL OF MATERIALS SCIENCE, vol.36, no.18, pp.4479-4484, 2001 (SCI-Expanded)
- XIV. **The effects of p-butoxyphenylcyclohexyl-phosphinic acid on the properties of PC based on bisphenol A**  
Ozden S., SHAOV A., CHARAYEV A., GURDALIYEV X.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.80, no.11, pp.2113-2119, 2001 (SCI-Expanded)
- XV. **Aromatic flock copolyesters stabilised with metallic salts of phosphinic acid**

- Ozden S., SHAOV A., CHARAYEV A., MIKITAEV A., BEDANOKOV A.  
POLYMERS & POLYMER COMPOSITES, vol.9, no.3, pp.213-219, 2001 (SCI-Expanded)
- XVI. **Mechanisms of stabilisation of high density polyethylene against oxidation using highly dispersed Fe-FeO mixtures**  
Ozden S., HATSUKOVA M., MASHUKOV H., KOZLOV G.  
PLASTICS RUBBER AND COMPOSITES, vol.29, no.5, pp.212-215, 2000 (SCI-Expanded)
- XVII. **The synthesis of polyetheretherketones and investigations of their properties**  
Ozden S., CHARAYEV A., SHAOV A.  
JOURNAL OF MATERIALS SCIENCE, vol.34, no.11, pp.2741-2744, 1999 (SCI-Expanded)
- XVIII. **Synthesis and assessment of the properties of polyetherketones (PEK) based on olygoketonephenolphthaleines (OKPP)-polyester block copolymers**  
Ozden S., CHARAYEV A., SHAOV A., SHUSTOV G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.68, no.6, pp.1013-1017, 1998 (SCI-Expanded)
- XIX. **Stabilising the structure of HDPE by the use of highly-dispersed mixture of Fe/FeO**  
Ozden S.  
INTERNATIONAL POLYMER PROCESSING, vol.13, no.1, pp.23-26, 1998 (SCI-Expanded)
- XX. **Compositions based on aromatic block copolyester and p-butoxyphenyl cyclohexyl phosphinic acid**  
Ozden S., SHAOV A., CHARAYEV A., BIDANIKOV A.  
POLYMERS & POLYMER COMPOSITES, vol.6, no.2, pp.103-107, 1998 (SCI-Expanded)
- XXI. **Assessment of thermal stresses in injection moulded polycarbonate**  
Akay M., Ozden S.  
Plastics, Rubber and Composites Processing and Applications, vol.25, no.3, pp.145-151, 1996 (SCI-Expanded)
- XXII. **An assessment of thermal stresses in injection moulded ABS copolymer**  
AKAY M., Ozden S.  
INTERNATIONAL POLYMER PROCESSING, vol.11, no.2, pp.179-187, 1996 (SCI-Expanded)
- XXIII. **Prediction of process-induced warpage in injection molded thermoplastics**  
AKAY M., Ozden S., TANSEY T.  
POLYMER ENGINEERING AND SCIENCE, vol.36, no.13, pp.1839-1846, 1996 (SCI-Expanded)
- XXIV. **THE INFLUENCE OF RESIDUAL-STRESSES ON THE MECHANICAL AND THERMAL-PROPERTIES OF INJECTION-MOLDED ABS COPOLYMER**  
AKAY M., OZDEN S.  
JOURNAL OF MATERIALS SCIENCE, vol.30, no.13, pp.3358-3368, 1995 (SCI-Expanded)
- XXV. **MEASUREMENT OF RESIDUAL-STRESSES IN INJECTION-MOLDED THERMOPLASTICS**  
AKAY M., OZDEN S.  
POLYMER TESTING, vol.13, no.4, pp.323-354, 1994 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Influence of residual stresses on mechanical and thermal properties of injection moulded polycarbonate**  
AKAY M., Ozden S.  
Plastics, Rubber and Composites Processing and Applications, vol.25, no.3, pp.138-144, 1996 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **The Importance of the Taguchi Experimental Desingne on The Determination of the Affective Factors of teh Journal Bearing**  
CANBULUT F., ÖZDEN S., SİNANOĞLU C.  
The First Mediterranean Tribology Conference, Jerusalem, Israel, 8 - 09 November 2000

**II. The effects of lubricating oil on the internal combustion engine**

SİNANOĞLU C., CANBULUT F., ÖZDEN S.

The first mediterranean tribology conference, 8 - 09 November 2000, vol.1

**III. The Effects of Lubricating oil on the Internal Combustion Engine**

Sinanoğlu C., CANBULUT F., Özden S.

The First Mediterranean Tribology Conference, Jerusalem, Israel, 12 June 2000 - 14 June 2000, vol.1, pp.12-16

## **Supported Projects**

CANBULUT F., SİNANOĞLU C., ÖZDEN S., Project Supported by Higher Education Institutions, YÜKSEK HIZ VE DÜŞÜK YÜKLERDE YAĞLAYICI OLARAK KULLANILAN GAZLARIN YATAK PERFORMANSINA ETKİLERİNİN DENEYSEL OLARAK ARAŞTIRILMASI, 2005 - 2007

ÖZDEN S., ÖZARSLAN B., Project Supported by Higher Education Institutions, KOMPOZİT MALZEMELERİN MEKANİK DAVRANIŞLARININ İYİLEŞTİRİLMESİ, 2004 - 2005

ÖZDEN S., Project Supported by Higher Education Institutions, KARBON FİBER DESTEKLİ KOMPOZİT MALZEMELERİN ÜRETİMİ SIRASINDA DİKİŞLE DİKİLMESİ İLE MEKANİK ÖZELLİKLERİNİN GELİŞTİRİLMESİ, 2002 - 2005

## **Metrics**

Publication: 30

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H-Index (Scopus): 7