

## Prof. ONURALP ULUER

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Dr), Turkey 2002 - 2009

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, Turkey 1994 - 1998

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Enjeksiyonla kalıplamda üçü boyutlu polimer ergiyik akışların sayısal analizi ve deneysel incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Dr), 2009

Postgraduate, Enjeksiyonla kalıplamda üçü boyutlu polimer ergiyik akışların sayısal analizi ve deneysel incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (YI) (Tezli), 1950

### Research Areas

Chemical Engineering and Technology, Construction and Manufacturing, Mechanical, Metallurgical and Materials Engineering, Material science and engineering

### Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, İmalat Mühendisliği, 2020 - 2030

Associate Professor, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2011 - 2012

Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2000 - 2009

### Academic and Administrative Experience

Assistant Director of Vocational School, Gazi University, Teknik Bilimler Meslek Yüksekokulu, 2014 - Continues

Assistant Director of Vocational School, Gazi University, Gazi Meslek Yüksekokulu, 2012 - 2014

## Advising Theses

ULUER O., Flow Balancing In Plastic Extrusion Dies, Postgraduate, G.KOŞ(Student), 2019

ULUER O., Creating Of Polymer Material Characterization Setup With Plastic Extrusion Machine, Postgraduate, B.CİVELEK(Student), 2019

ULUER O., Characterization Of Polypropylene Material For Carbondioxide Cell Production, Postgraduate, Ü.AĞBULUT(Student), 2018

ÖZDEMİR A., ULUER O., Plastik ürünler için toleransların, kontrol edilebilen enjeksiyonla kalıplama değişkenleriyle teorik ve deneysel ilişkilendirilmesi, Doctorate, S.TAGHIZADEH(Student), 2014

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

- I. **The effects of local heating on springback behaviour in v bending of galvanized DP600 sheet**  
KARAAĞAÇ İ., Onel T., ULUER O.  
IRONMAKING & STEELMAKING, vol.47, no.7, pp.807-813, 2020 (SCI-Expanded)
- II. **Experimental analysis of cooling and heating performance of serial and parallel connected counter-flow Ranquee-Hilsch vortex tube systems using carbon dioxide as a working fluid**  
KAYA H., ULUER O., Kocaoglu E., KIRMACI V.  
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.106, pp.297-307, 2019 (SCI-Expanded)
- III. **The formability and springback characterization of laser-welded DP-HSLA sheets**  
Aydin K., KARAAĞAÇ İ., ULUER O.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.125, no.8, 2019 (SCI-Expanded)
- IV. **Experimental Study About Performance Analysis of Parallel Connected Ranque-Hilsch Counter Flow Vortex Tubes With Different Nozzle Numbers and Materials**  
KAYA H., Gunver F., ULUER O., KIRMACI V.  
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.140, no.11, 2018 (SCI-Expanded)
- V. **WARPAGE PREDICTION IN PLASTIC INJECTION MOLDED PART USING ARTIFICIAL NEURAL NETWORK**  
SAMAD T., ÖZDEMİR A., ULUER O.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY - TRANSACTIONS OF MECHANICAL ENGINEERING, vol.37, no.M2, pp.149-160, 2013 (SCI-Expanded)
- VI. **Warpage prediction in plastic injection molded part using artificial neural network**  
Taghizadeh S., Ozdemir A., Uluer O.  
Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, vol.37, no.M2, pp.149-160, 2013 (SCI-Expanded)
- VII. **An Experimental Investigation of Performance and Exergy Analysis of a Counterflow Vortex Tube Having Various Nozzle Numbers at Different Inlet Pressures of Air, Oxygen, Nitrogen, and Argon**  
KIRMACI V., ULUER O., DİNCER K.  
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.132, no.12, 2010 (SCI-Expanded)
- VIII. **Using the artificial neural network model for modeling the performance of the counter flow vortex tube**  
ULUER O., KIRMACI V., ATAŞ Ş.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.10, pp.12256-12263, 2009 (SCI-Expanded)
- IX. **Optimization of counter flow Ranque-Hilsch vortex tube performance using Taguchi method**  
PİNAR A. M., ULUER O., KIRMACI V.  
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.32, no.6, pp.1487-1494, 2009 (SCI-Expanded)
- X. **An Experimental Investigation of the Cold Mass Fraction, Nozzle Number, and Inlet Pressure Effects on Performance of Counter Flow Vortex Tube**  
KIRMACI V., ULUER O.  
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.131, no.8, 2009 (SCI-Expanded)

- XI. **The Numerical Analysis of a Mold Cavity Filling Using the Finite Control Volume Method and Comparison to the Experimental Results**  
GÜLDAŞ A., ULUER O., ÖZDEMİR A.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.48, no.4, pp.389-396, 2009 (SCI-Expanded)
- XII. **Statistical assessment of counter-flow vortex tube performance for different nozzle numbers, cold mass fractions, and inlet pressures via taguchi method**  
Pinar A. M., Uluer O., Kirmaci V.  
Experimental Heat Transfer, vol.22, no.4, pp.271-282, 2009 (SCI-Expanded)
- XIII. **The effects of orifice nozzle number on heating and cooling performance of vortex tubes: An experimental study**  
Kirmaci V., ULUER O.  
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.36, no.5, pp.493-502, 2008 (SCI-Expanded)
- XIV. **Flow front advancement of molten thermoplastic materials during filling stage of a mold cavity**  
Ozdemir A., Uluer O., Guldass A.  
Polymer Testing, vol.23, no.8, pp.957-966, 2004 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Genleştirilmiş perlitin ısı yalıtım teknolojilerinde kullanılabilirliğinin incelenmesi**  
ULUER O., KARAAĞAÇ İ., AKTAŞ M., DURMUŞ G., AĞBULUT Ü., KHANLARI A., ÇELİK D. N.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, no.1, pp.36-42, 2018 (Peer-Reviewed Journal)
- II. **Mathematical calculation and experimental investigation of expanded perlite based heat insulation materials' thermal conductivity values**  
Uluer O., Aktas M., KARAAĞAÇ İ., DURMUŞ G., Khanlari A., Agbulut U., Celik D. N.  
Journal of Thermal Engineering, vol.4, no.5, pp.2274-2286, 2018 (Scopus)
- III. **An investigation of usability of expanded perlite in heat insulation technologies**  
ULUER O., KARAAĞAÇ İ., AKTAŞ M., DURMUŞ G., Agbulut U., Khanlari A., ÇELİK D. N.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.1, pp.36-42, 2018 (ESCI)
- IV. **Experimental investigation of effect of process parameters on springback in v bending process**  
KARAAĞAÇ İ., ULUER O.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.8, pp.990-993, 2017 (ESCI)
- V. **An Experimental Investigation of the Lubrication Effects on Formability In Warm Deep Drawing**  
Sen N., Kurgan N., KARAAĞAÇ İ., ULUER O.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, no.2, pp.185-193, 2016 (ESCI)
- VI. **The Approaches to Determine of Heat Transfer Coefficient for Composite Thermal Insulation Panel**  
Karaağaç I., Durmuş G., Uluer O., Aktaş M., Tülü F. A.  
El-Cezeri Journal of Science and Engineering, vol.3, no.1, pp.133-142, 2016 (Scopus)
- VII. **Ilık Derin Çekme Prosesinde Yağlayıcı Etkisinin Şekillendirilebilirlik Açısından Deneysel Araştırılması**  
ŞEN N., KURGAN N., KARAAĞAÇ İ., ULUER O.  
Politeknik Dergisi, vol.19, no.2, pp.185-193, 2016 (Peer-Reviewed Journal)
- VIII. **The effect of the processing parameters on frozen layer formation in injection molding Enjeksiyonla kalıplamada işleme parametrelerinin katılmış katman oluşumuna etkisi**  
Uluer O.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.23, no.1, pp.249-255, 2008 (Scopus)
- IX. **The Effects of Computer Aided Tool Path Generation Methods on the Machining Times and the Surface Roughness in Machining of a Mold Core and a Mold Cavity**  
MERT F., ULUER O., GÜLDAŞ A., ÖZDEMİR A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, no.3, pp.215-227, 2008 (ESCI)

- X. **ANALYSIS OF FLOW IN INJECTION MOLDS, THE DERIVATION OF THE GOVERNING EQUATIONS FOR THE MATHEMATICAL MODELLING OF THE FLOW OF POLYMER MELT**  
GÜLDAŞ A., ULUER O., ÖZDEMİR A.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.18, no.4, pp.707-721, 2005 (ESCI)
- XI. **Enjeksiyon Kalıplarındaki Akışın Analizi Ergimiş Plastik Akışının Matematiksel Modellenmesi İçin Temel Denklemlerin Türetilmesi**  
ÖZDEMİR A., GÜLDAŞ A., ULUER O.  
Gazi Ün. Fen Bilimleri Enstitüsü Dergisi, vol.18, no.4, pp.517-528, 2005 (Peer-Reviewed Journal)
- XII. **Ergimiş plastiğin kalıp boşluğundaki gerçek akış davranışının gözlenmesi için kalıp tasarımı ve imalatı**  
Uluer O., Güldeş A., Özdemir A.  
Technology, vol.8, no.2, pp.181-189, 2005 (Peer-Reviewed Journal)
- XIII. **Ergiyik Plastiğin Kalıp Boşluğundaki Gerçek Akış Davranışının Gözlenmesi İçin Kalıp Tasarımı ve İmalatı**  
ULUER O., GÜLDAŞ A., ÖZDEMİR A.  
Teknoloji, vol.8, no.2, pp.181-189, 2005 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **A Study on Some Factors Affecting on CO2 Curing of Expanded Pearlite Based Thermal Insulation Panel**  
DURMUŞ G., ULUER O., AKTAŞ M., KARAAĞAÇ İ., Khanlari A., AĞBULUT Ü., ÇELİK D. N.  
in: Proceedings of 3rd International Sustainable Buildings Symposium (ISBS 2017), Fırat, Seyhan, Kinuthia, John, Abu-Tair, Abid, Editor, Springer, New York, pp.61-70, 2017
- II. **SolidWorks ile Modelleme**  
GÜLESİN M., ÖZDEMİR A., GÜLLÜ A., GÜLDAŞ A., ULUER O.  
ASİL Yayın Dağıtım Ltd. Şti., Ankara, 2006
- III. **SolidWorks ile Uygulamalar**  
GÜLESİN M., GÜLLÜ A., GÜLDAŞ A., ULUER O., AY T.  
ASİL Yayın Dağıtım Ltd. Şti., Ankara, 2006

## Refereed Congress / Symposium Publications in Proceedings

- I. **Development of Experimental Setup to Detect Swelling Behavior in Plastic Extrusion Process**  
Akkuş A., Ağbulut Ü., Civelek B., Koş G., Kabakçı M. O., Karaağaç I., Uluer O.  
3rd International Engineering Research Symposium (iners'19, 5-7 Eylül), Düzce., Düzce, Turkey, 5 - 07 September 2019
- II. **TEMPERATURE DEPENDENT DENSITY MODELS FOR PP, PS, LDPE AND HDPE MATERIALS**  
GÜLDAŞ A., ULUER O., Beyza Nur K., Bahadır Ş. T.  
4th International Conference on Engineering Technology and Applied Sciences Congress, Kiev, Ukraine, 24 - 26 April 2019, vol.1, pp.350-353
- III. **Plastik Ekstrüzyon Kalıplarında Hız Dengeleme İçin Akış Bölücülerin Kullanılabilirliği**  
KOŞ G., CİVELEK B., ULUER O.  
EJONS VI International Conference on Mathematics-Engineering-NaturalMedical Sciences (EJONS VI, 8-10 Mart), Adana, 08 March 2019
- IV. **A Study on Some Factors Affecting on CO2 Curing of Expanded Perlite Based Thermal Insulation Panel**  
DURMUŞ G., ULUER O., AKTAŞ M., KARAAĞAÇ İ., Khanlari A., Agbulut U., ÇELİK D. N.  
3rd International Sustainable Buildings Symposium (ISBS), U ARAB EMIRATES, 15 - 17 March 2017, vol.7, pp.61-70

- V. **An Overview of Determining Rheological Properties by Using Slit and Capillary Dies**  
AĞBULUT Ü., ULUER O., SARIDEMİR S.  
International Advanced Researches and Engineering Congress-2017, Osmaniye, Turkey, 16 November 2017 - 18 November 2018, pp.863-870
- VI. **The Prediction of Springback in V Bending Process by Fuzzy Logic**  
KARAAĞAÇ İ., ULUER O.  
8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.3164-3173
- VII. **A Study on Some Factors Affecting on CO2 Curing of Expanded Perlite Based Thermal Insulation Panel**  
Durmuş G., Uluer O., Aktaş M., Karaağaç I., Khanlari A., Ağbulut Ü., Çelik D. N.  
3rd International Sustainable Buildings Symposium (ISBS 2017), Dubai, United Arab Emirates, 15 - 17 March 2017
- VIII. **Manufacturing of Expanded Perlite Based Heat Insulation Material Using Theoretical Thermal Conductivity Prediction Model Results**  
ULUER O., AKTAŞ M., KARAAĞAÇ İ., DURMUŞ G., KHANLARI A., AĞBULUT Ü., ÇELİK D. N.  
International Conference on Progress in APPLIED SCIENCE 2017 (ICPAS 2017), İstanbul, Turkey, 4 - 06 January 2017, pp.156-161
- IX. **MANUFACTURING OF EXPANDED PERLITE BASED HEAT INSULATION MATERIAL USING THEORETICAL THERMAL CONDUCTIVITY PREDICTION MODEL RESULTS**  
ULUER O., AKTAŞ M., KARAAĞAÇ İ., DURMUŞ G., KHANLARI A., AĞBULUT Ü., ÇELİK D. N.  
INTERNATIONAL CONFERENCE ON PROGRESS IN APPLIED SCIENCE 2017, İstanbul, Turkey, 4 - 06 January 2017, pp.156-161
- X. **Manufacturing of Expanding Perlite Based heat Insulation Materials Using Theoretical Conductivity Prediction Model Results**  
ULUER O., AKTAŞ M., KARAAĞAÇ İ., DURMUŞ G., KHANLARI A., AĞBULUT Ü., ÇELİK D. N.  
istanbul international conference on progress in applied science 2017 (ICPASv2017), İstanbul, Turkey, 4 - 06 January 2017, pp.156-162
- XI. **Experimental Investigation of Process Parameters Affecting Springback in V Bending Process**  
Karaağaç I., Uluer O.  
IMSP'2016, Denizli, Turkey, 12 - 14 October 2016
- XII. **AISI 304L KALITE SAC MALZEMENİN V BÜKÜME PROSESİ İLE BÜKÜMÜNDE GERİ ESNEMENİN DENEYSEL ARAŞTIRILMASI**  
KARAAĞAÇ İ., ULUER O.  
16th international materials symposium (IMSP'2016), Denizli, Turkey, 12 - 14 October 2016, pp.174-181
- XIII. **Experimental Investigation of Springback in Bending of AISI 304L Quality Sheet Material with V Bending Process**  
Karaağaç I., Uluer O.  
16th International Materials Symposium IMSP2016, Denizli, Turkey, 12 - 14 October 2016, pp.318-325
- XIV. **Approaches to Determine Thermal Conduction Coefficient in Composite Thermal Insulation Boards**  
Karaağaç I., Durmuş G., Uluer O., Aktaş M., Tülü F.  
Ulusal Mühendislik Araştırmaları Sempozyumu (UMAS), Düzce, Turkey, 10 - 12 September 2015, pp.62
- XV. **THE DEEP DRAWABILITY OF CUPPER SHEET MATERIAL BY HYDROMECHANICAL DEEP DRAWING PROCESS**  
KARAAĞAÇ İ., ÖZDEMİR A., ULUER O.  
2nd International Iron and Steel Symposium (IISS'15), Karabük, Turkey, 1 - 03 April 2015
- XVI. **Bakır Sac Malzemenin Hidromekanik Derin Çekme Yöntemiyle Derin Çekilebilirliği**  
KARAAĞAÇ İ., ÖZDEMİR A., ULUER O.  
2. Uluslar arası Demir Çelik Sempozyumu (IISS'15), Karabük, Turkey, 1 - 03 April 2015, pp.418-424
- XVII. **The deep drawability of copper sheet material by hydromechanical deep drawing process**  
KARAAĞAÇ İ., ÖZDEMİR A., ULUER O.  
The second international iron and steel symposium (IISS'15), Karabük, Turkey, 1 - 03 April 2015, pp.418-424

- XVIII. **Biodegradable Implant Materials in Bone Treatments**  
Mert F., Gürün H., Karaağaç I., Uluer O.  
1st International Symposium on Plastic and Rubber Technologies and Exhibition, Ankara, Turkey, 29 - 31 May 2013
- XIX. **Computer Aided Plastic Injection Mold Cost Estimation**  
Karaağaç I., Uluer O., Gürün H.  
1. Uluslararası Plastik ve Kauçuk Teknolojileri Sempozyumu ve Sergisi, Ankara, Turkey, 29 - 31 May 2013, pp.41-49
- XX. **Cost Estimation in Plastic Injection Molds**  
Karaağaç I., Uluer O., Gürün H., Mert F.  
1st International Symposium on Plastic and Rubber Technologies and Exhibition, Ankara, Turkey, 29 - 31 May 2013
- XXI. **Yüksek Yoğunluklu Polietilen Plastik Malzemesinin Reolojik Özelliklerinin Basınç ve Sıcaklık Değişimine Dayalı Tayini**  
Gültaş A., Uluer O., Özdemir A.  
12th International Materials Symposium, Denizli, Turkey, 15 - 17 October 2008, pp.1371-1380
- XXII. **Yüksek Yoğunluklu Polietilen Plastik Malzemesinin Reolojik Özelliklerinin Basınç ve Sıcaklık Değişimine Dayalı Tayin**  
GÜLDAŞ A., ULUER O., ÖZDEMİR A.  
12th International Materials Symposium, Denizli, Turkey, 15 - 17 October 2008, pp.1371-1380
- XXIII. **Plastik Malzemelerin Sıcaklığa Bağlı Isı İletim Katsayılarının Tespit Edilebilmesini Sağlayan Düzenegin Tasarımı ve Üretimi**  
ULUER O., GÜLDAŞ A., ÖZDEMİR A.  
ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 30 May - 02 June 2007
- XXIV. **Determining The Real Behavior and Melt Front Advancement During Filling Stage of a Mold Cavity An Experimental Study**  
ULUER O., GÜLDAŞ A., ÖZDEMİR A.  
3rd International Conference and Exhibitions on Design and Production of DIE & MOLDS, Bursa, Turkey, 17 - 19 June 2004

## Supported Projects

Karaağaç I., Uluer O., Project Supported by Higher Education Institutions, EXPERIMENTAL INVESTIGATION OF SPRINGBACK IN WARM BENDING METHOD, 2015 - 2018

ULUER O., Project Supported by Higher Education Institutions, PLASTİK PROFİLLERİN EKSTRÜZYON YÖNTEMİYLE ÜRETİMİ SIRASINDA YAŞANILAN ŞİŞME OLAYININ SAYISAL ANALİZİ ve DENEYSEL DOĞRULANMASI, 2010 - 2014

Gültaş A., Karaağaç I., Uluer O., Gürün H., Project Supported by Higher Education Institutions, Experimental Investigation of Hydroforming of Copper Sheet Metal Cone Part with High Liquid Pressure, 2007 - 2009

## Patent

Karaağaç I., Uluer O., Flow Adjustment Regulator, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: TR 2016 17903 B , Standard Registration, 2018

ULUER O., ATM KLAVYE VE TUŞ TAKIMI KILIFI, Patent, CHAPTER C Chemistry; Metallurgy, 2015

## Activities in Scientific Journals

Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, Assistant Editor/Section Editor, 2018 - Continues

## Metrics

Publication: 54

Citation (WoS): 353

Citation (Scopus): 371

H-Index (WoS): 10

H-Index (Scopus): 11

## **Non Academic Experience**

SAMPA OTOMOTİV A.Ş

M.E.B. Salihli Çıraklık Eğitim Merkezi

Çetin Elektroplastik A.Ş