

**Assoc. Prof. Tolga  
MERT**

**Personal Information**

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**International Researcher IDs**

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Publons / Web Of Science

ResearcherID: AAZ-7857-2020

ScopusID: 55329779500

Yoksis Researcher ID: 175193



**Education Information**

2005 - 2012	Doctorate, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey
2001 - 2004	Postgraduate, Yıldız Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey
1996 - 2000	Undergraduate, Istanbul University, Makine Mühendisliği Bölümü, Turkey

**Foreign Languages**

English, C1 Advanced

**Dissertations**

2012	Koruyucu Gaz Kaynağında Karışım Oranları ve Gaz Yönlendirme Türlerinin Kaynak Dikişinde Ortaya Çıkardığı Farklılıkların Araştırılması, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği Bölümü/Makine Malzemesi Ve İmalat Teknolojisi Ad, Doctorate
2004	Kaynaklı Yapımlarda Robotik Uygulamalar ve Türkiye'deki Durumu, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği Bölümü/Makine Malzemesi Ve İmalat Teknolojisi Ad, Postgraduate

**Research Areas**

Mechanical Engineering, Construction and Manufacturing, Welding Methods, Engineering and Technology

**Academic Titles / Tasks**

2018 - Continues	Associate Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
2018 - 2018	Assistant Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
2012 - 2018	Research Assistant PhD, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering
2001 - 2012	Research Assistant, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering

## Courses

2020 - 2021, 2019 - 2020	Endüstride Kaynak Uygulamaları, Postgraduate
2019 - 2020, 2018 - 2019	Manufacturing Processes I, Undergraduate
2020 - 2021, 2019 - 2020, 2018 - 2019	Manufacturing Processes, Undergraduate
2019 - 2020	KAYNAK METALURJİSİ VE PROBLEMLERİ, Postgraduate
2020 - 2021, 2019 - 2020	Kaynak Tekniği, Undergraduate
2017 - 2018	Üretim Yöntemleri, Undergraduate
2017 - 2018	Computer Programming, Undergraduate

## Advising Theses

2023	Mert T., Postgraduate, N.İLÇİN(Student), İstanbul Büyükşehir Belediyesi atık yakma ve enerji üretim tesisinin kaynaklı kazan imalatının incelenmesi
2022	Mert T., Tümer M., Postgraduate, U.NUHOĞLU(Student), Soğuk şekillendirmeye uygun yüksek mukavemetli çelik malzeme ile LPG tüpü imalatında tozaltı kaynak parametrelerinin dikiş kalitesine etkilerinin incelenmesi
2019	Mert T., Postgraduate, C.CİVELEK(Student), TAM OTOMATİK METAL İNERT GAZ YÖNTEMİ İLE ALÜMİNYUM ALAŞIMI YAKIT DEPOLARININ İMALATINDA KAYNAK PARAMETRELERİNİN ETKİLERİNİN İNCELENMESİ
2019	Mert T., Postgraduate, H.GÖKHAN(Student), Alüminyum Alaşımlarının Sürtünme Karıştırma Kaynağında Kaynak Parametrelerinin Dikiş Kalitesine Etkileri
2015	Yumurtacı S., Mert T., Postgraduate, M.ALTUNTAŞ(Student), AISI 304L paslanmaz çeliğin MIG ve TIG kaynak yöntemleriyle birleştirilmesinde kaynak parametrelerinin etkilerinin incelenmesi

## Jury Memberships

May 2023	Competition, BEST (Board of European Students of Technology) YBEC (Yıldız Best Engineering Competition) 2023 Jüri Üyesi, Yıldız Teknik Üniversitesi
April 2023	Post Graduate, Post Graduate, Gebze Teknik Üniversitesi
July 2022	Post Graduate, Post Graduate, İstanbul Gedik Üniversitesi
June 2022	Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi
May 2022	Post Graduate, Post Graduate, İstanbul Gedik Üniversitesi
April 2022	Competition, BEST (Board of European Students of Technology) EBEC (European Best Engineering Competition) 2022 Jüri Üyesi, Yıldız Teknik Üniversitesi
December 2019	Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi

April 2019	Competition, BEST (Board of European Students of Technology) HBEC (High School Best Engineering Competition) 2019 Jüri Üyesi, Yıldız Technical University
September 2018	Competition, Teknofest İstanbul Havacılık, Uzay ve Teknoloji Festivali, Robotik Fetih 1453 Yarışması, Danışma Kurulu Üyeliği, Yıldız Technical University
May 2018	Competition, BEST (Board of European Students of Technology) HBEC (High School Best Engineering Competition) 2018 Jüri Üyesi, Yıldız Technical University
April 2017	Competition, BEST (Board of European Students of Technology) HBEC (High School Best Engineering Competition) 2017 Jüri Üyesi, Yıldız Technical University

## Taught Courses And Trainings

2017 - 2017	Çelebi U. B., Engin G., Kuzu S. L., Alcı B., Mert T., Çetinkaya A. Y., Köroğlu E. O., Bilgili L., İSTKA İstanbul Yerel Yönetimler Akademisi Projesi-Hava Kalitesi İzleme ve Kontrolü; Gemi ve Deniz Atıkları; Atık Yönetimi
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## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Microstructural and mechanical characterizations of weld metal of S960QL ultra high strength steel joints obtained with different multi-pass laying techniques using GMAW**  
Mert T., Gürol U., Tümer M.  
MATERIALS RESEARCH EXPRESS, vol.11, no.9, pp.1-11, 2024 (SCI-Expanded)
- II. **Investigation of microstructure, mechanical and corrosion properties of GMAW of dissimilar P91-HP alloy V-butt groove joint**  
Atapek Ş. H., Tümer M., Kısasöz A., Mert T., Kerimak M. Z.  
MATERIALS CHEMISTRY AND PHYSICS, vol.313, no.1 February 2024, pp.1-13, 2023 (SCI-Expanded)
- III. **The effect of weaving and non-weaving multi-pass procedure on microstructure and mechanical properties in GMAW of S960QL**  
MERT T., Gürol U., TÜMER M.  
International Journal of Advanced Manufacturing Technology, vol.129, no.9-10, pp.4731-4742, 2023 (SCI-Expanded)
- IV. **The effect of heat input in multi-pass GMAW of S960QL UHSS based on weaving and stringer bead procedure on microstructure and mechanical properties of HAZ**  
Mert T., Gürol U., Tümer M.  
MATERIALS RESEARCH EXPRESS, vol.10, no.8, pp.1-14, 2023 (SCI-Expanded)
- V. **Investigation of microstructure, mechanical, and corrosion behavior of nickel-based alloy 625/duplex stainless steel UNS S32205 dissimilar weldments using ERNiCrMo-3 filler metal**  
Tümer M., Mert T., Karahan T.  
WELDING IN THE WORLD, vol.65, pp.171-182, 2021 (SCI-Expanded)
- VI. **Evaluation of microstructural and mechanical properties of dissimilar Inconel 625 nickel alloy-UNS S32205 duplex stainless steel weldment using MIG welding**  
Tümer M., Karahan T., Mert T.  
Welding in the World, vol.64, no.1, pp.21-35, 2020 (SCI-Expanded)
- VII. **Investigations on Mechanical Strength and Microstructure of Multi-Pass Welded S690QL HSLA Steel Using MAG and FCAW**  
MERT T., TÜMER M., Kerimak Z. M.  
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.56, no.10, pp.634-654, 2019 (SCI-Expanded)
- VIII. **SHIPYARD WELDING EMISSION ESTIMATION FOR DIFFERENT ELECTRODE AND SHIP TYPES**  
Mert T., Çelebi U. B., Bilgili L., Ekinci S.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.891-894, 2019 (SCI-Expanded)
- IX. **Experimental Investigation of the Effects of Parameters on CO<sub>2</sub> and CO Emissions during FCAW of**

## **Structural Steel. Estimation and Evaluation of Environmental and Health Impacts**

Mert T., Bilgili L., Çelebi U. B., Ekinci S.

ACTA PHYSICA POLONICA A, vol.134, pp.354-357, 2018 (SCI-Expanded)

- X. **DOUBLE FILLET WELDING OF CARBON STEEL T-JOINT BY DOUBLE CHANNEL SHIELDING GAS METAL ARC WELDING METHOD USING METAL CORED WIRE**  
MERT T., GÜLTEKİN N., KARAASLAN A.  
ARCHIVES OF METALLURGY AND MATERIALS, vol.62, no.2, pp.947-954, 2017 (SCI-Expanded)
- XI. **Fume Formation Rate Analysis of Shipbuilding Steel with SMAW Using Taguchi Design and ANOVA**  
MERT T., EKİNCİ S.  
ACTA PHYSICA POLONICA A, vol.131, no.3, pp.495-499, 2017 (SCI-Expanded)
- XII. **HAZARDOUS FUME EMISSIONS IN MMA WELDING OF AH-36 STEEL WITH DIFFERENT ELECTRODES AND ANALYSIS WITH TAGUCHI AND ANOVA**  
MERT T., BİLGİLİ L., ŞENÖZ K. M., ÇELEBİ U. B., EKİNCİ S.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.318-322, 2017 (SCI-Expanded)
- XIII. **THE ANALYSIS OF THE EFFECT OF PARAMETERS IN GAS METAL ARC WELDING OF STRUCTURAL STEEL WITH METAL CORED WIRE ON WELDING FUME USING TAGUCHI METHOD AND ANOVA**  
MERT T.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.133-139, 2017 (SCI-Expanded)
- XIV. **CHARACTERIZATION OF SUB-MICROMETER FUME PARTICLES IN MMA WELDING OF SHIPBUILDING STEEL WITH DIFFERENT TYPES OF ELECTRODES**  
ÇELEBİ U. B., MERT T., BİLGİLİ L., ŞENÖZ K. M., EKİNCİ S.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.140-145, 2017 (SCI-Expanded)
- XV. **Characteristics of austenitic stainless steel T-joints welded using the DMAG process with solid wire**  
MERT T., Gültekin N., KARAASLAN A.  
MATERIALS TESTING, vol.58, no.9, pp.778-781, 2016 (SCI-Expanded)
- XVI. **Evaluation of double channel GMAW fillet welds of low carbon steel using solid wire**  
MERT T., Gultekin N., KARAASLAN A.  
MATERIALS TESTING, vol.57, pp.680-684, 2015 (SCI-Expanded)
- XVII. **Mechanical and Microstructural Evaluation of DMAG Welding of Structural Steel**  
MERT T., Gultekin N., KARAASLAN A.  
ADVANCES IN MECHANICAL ENGINEERING, vol.7, no.1, 2015 (SCI-Expanded)
- XVIII. **Fillet welding of austenitic stainless steel using the double channel shielding gas method with cored wire**  
MERT T., Gultekin N., KARAASLAN A.  
MATERIALS TESTING, vol.57, no.1, pp.91-94, 2015 (SCI-Expanded)
- XIX. **Strain-Based Assessment and Modeling for Low-Distortion Welding Procedure**  
Mert T., Tsai C. L., Babu S. S., Yang Y.  
MATERIALS AND MANUFACTURING PROCESSES, vol.27, pp.943-948, 2012 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Investigation of the Effect of Solid Wire and Flux Combinations Used in Submerged Arc Welding of the LPG Cylinders on Mechanical Properties**  
Nuhoglu U., Mert T., Tümer M.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.37, no.2, pp.509-517, 2022 (Peer-Reviewed Journal)
- II. **Microstructural Analysis of Inconel 625 Nickel Alloy / UNS S31803 Duplex Stainless-Steel Dissimilar Weldments**  
Karahan T., Mert T., Tümer M., Kerimak Z. M.  
ADVANCED TECHNOLOGIES AND MATERIALS, vol.44, no.1, pp.15-19, 2019 (Peer-Reviewed Journal)
- III. **Plastik Enjeksiyon Kalıplarının Onarım Kaynağında TIG Kaynak Parametrelerinin Etkileri**

- YUMURTACI S., Altıntaş H. İ., MERT T.  
Metal Makina Dergisi, no.230, pp.120-124, 2018 (Non Peer-Reviewed Journal)
- IV. **AH-36 Gemi İnşa Çeliğinin Metal Özlü Telle Gazaltı Kaynağında Kaynak Parametrelerinin CO2 Gazı Emisyonuna Etkilerinin Analizi**  
MERT T.  
JOURNAL OF ETA MARİTİME SCİENCE, vol.5, no.3, pp.234-241, 2017 (Peer-Reviewed Journal)
- V. **Investigation of Fume Formation Rate in SMAW of 316L Stainless Steel with Different Electrodes Using Taguchi and Anova**  
Mert T., Şenöz K. M., Bilgili L., Çelebi U. B., Ekinci S.  
El-Cezeri Journal of Science and Engineering, vol.4, pp.291-296, 2017 (Scopus)
- VI. **St 52 Çeliğine MIG Yöntemiyle Yapılan Kaplama Kaynağında Ön Tavlama Sıcaklığının Etkileri**  
YUMURTACI S., Nalçacı B., MERT T.  
Metal Makina Dergisi, no.224, pp.118-124, 2017 (Non Peer-Reviewed Journal)
- VII. **Estimation of Ship Exhaust Gas Emissions**  
Bilgili L., Çelebi U. B., Mert T.  
Academic Journal of Science, vol.4, pp.107-114, 2015 (Peer-Reviewed Journal)
- VIII. **The Effect of Change in Welding Speed in Laser Welding of Stainless Steel Piezo Injector Parts on Weld Bead Geometries**  
Ertem R. U., Yumurtacı S., Mert T.  
International Journal of Arts and Sciences, vol.8, no.8, pp.305-310, 2015 (Peer-Reviewed Journal)
- IX. **MIG-MAG Kaynağında Duman Oluşumu**  
MERT T.  
BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.15, no.2, pp.15-28, 2013 (Peer-Reviewed Journal)
- X. **MIG/MAG Kaynağında Çift Kanallı Koruyucu Gaz Beslemenin Proses Parametreleri ve Çapak Oluşumu Üzerine Etkileri**  
MERT T., Gültekin N., Yumurtacı S.  
Y.T.Ü. Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.31, no.3, pp.363-375, 2013 (Peer-Reviewed Journal)
- XI. **Endüstriyel Robotlar ve Seçimlerindeki Kriterler**  
MERT T., YUMURTACI S.  
MakinaTek Dergisi, pp.234-243, 2013 (Peer-Reviewed Journal)
- XII. **Uzaktan Lazer Kaynağı**  
GÜNCAN S., YUMURTACI S., MERT T.  
MakinaTek Dergisi, pp.106-110, 2013 (Peer-Reviewed Journal)
- XIII. **Waterjet Cutting Technology and Its Comparison with Other Cutting Methods in Some Aspects**  
MERT T.  
Academic Journal of Science, vol.1, no.3, pp.275-282, 2012 (Peer-Reviewed Journal)
- XIV. **MIG MAG Kaynağında Çift Kanallı Koruyucu Gaz Yönlendirme Yöntemi**  
MERT T., Gültekin N., YUMURTACI S.  
Mühendis ve Makina Dergisi, vol.53, pp.34-43, 2012 (Peer-Reviewed Journal)
- XV. **Gazaltı Kaynağında Alternatif Koruyucu Gaz Yönlendirme Türlerine Toplu Bakış**  
MERT T., Gültekin N., YUMURTACI S.  
Mühendis ve Makina Dergisi, vol.53, pp.36-42, 2012 (Peer-Reviewed Journal)
- XVI. **Ark Kaynak Robotunun Sahip Olması Gereken Özellikler ve Robotik Ark Kaynak Hücresinin Elemanları**  
YUMURTACI S., MERT T.  
Mühendis ve Makina Dergisi, vol.50, pp.2-7, 2009 (Peer-Reviewed Journal)
- XVII. **Endüstriyel Robotlar ve Türkiye deki Dağılımının İrdelenmesi**  
YUMURTACI S., MERT T.  
Machinery MakinaTek Dergisi, pp.68-71, 2006 (Peer-Reviewed Journal)
- XVIII. **Robotik Kaynak Sistemleri ve Gelişme İstikametleri**

YUMURTACI S., MERT T.

Mühendis ve Makina Dergisi, vol.44, pp.32-40, 2003 (Peer-Reviewed Journal)

XIX. **Deniz Suyunda Korozyon**

Akdoğan Eker A., Mert T.

Metal Makina, no.136, pp.214-218, 2002 (Non Peer-Reviewed Journal)

## **Books & Book Chapters**

I. **The Effect of Parameter Selection on Fume Formation Rate in SMAW of AH36 Shipbuilding Steel and Analysis with ANOVA Method**

MERT T., BİLGİLİ L., ŞENÖZ K. M., ÇELEBİ U. B., EKİNCİ S.

in: Energy Transportation and Global Warming, Panagiotis Grammelis, Editor, Springer, pp.795-802, 2016

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

I. **Comparing Mechanical Properties of TIG Welded 16Mo3 and P235GH Steam Boiler Tube Materials Using Different Welding Currents**

Kaykaç Yaşaroğlu N. İ., Mert T.

International Marmara Sciences Congress (IMASCON 2022), Kocaeli, Turkey, 9 - 10 December 2022, pp.132-142

II. **Bir Silahta Ateşleme Mekanizmasının Aşınmaya ve Yorulmaya Karşı Optimum Tasarımı**

Kaymaz B., Alkılınç Ö., Zengin G., Mert T.

7. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 16 - 18 April 2022, pp.801-812

III. **Alüminyum Alaşımlarının Sürtünme Karıştırma Kaynağında Kaynak Parametrelerinin Kaynak Dikiş Kalitesine Etkileri**

Şanseven H. G., Mert T.

4. Uluslararası Mühendislik, Mimarlık ve Tasarım Kongresi, İstanbul, Turkey, 23 - 24 April 2019, pp.313-321

IV. **Tam Otomatik Metal İnert Gaz Kaynak Yöntemi İle Alüminyum Alaşımı Yakıt Depolarının İmalatında Kaynak Parametrelerinin Mukavemet Üzerine Etkilerinin İncelenmesi**

CİVELEK C., TÜRKOĞLU O., MERT T.

III. Uluslararası AVRASYA Multidisipliner Çalışmalar Kongresi, Gaziantep, Turkey, 04 April 2019, pp.212-224

V. **Experimental study on the effect of welding parameters on fume formation rate and gas emissions in shielded metal arc welding of 700 MPa high strength steel**

Delibaş A. H., MERT T., YUMURTACI S.

1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 November 2018, pp.780-787

VI. **Applications of Machine Learning in Predicting Welding Emissions**

Jilla A., MERT T.

3rd International Symposium on Naval Architecture and Maritime (INT-NAM 2018), İstanbul, Turkey, 24 April 2018, pp.783-788

VII. **The Effect of MAG and FCAW Methods on Microstructure and Impact Toughness of Multi-pass Welded Weldox 700**

MERT T., Tümer M., Kerimak M. Z.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 October 2017, pp.1824-1832

VIII. **Dispersion Modeling of Welding Originated Shipyard Emissions**

KUZU S. L., MERT T., BİLGİLİ L., ÇELEBİ U. B., EKİNCİ S.

19th International Symposium on Environmental Pollution and Its Impact on Life in the Mediterranean Region, Roma, Italy, 4 - 06 October 2017, vol.1, pp.227

IX. **Risk-Based Ship Waste and Emission Management System**

Bilgili L., Yılmaz Ş. K., Ünlügençoğlu K., Mert T., Çelebi U. B., Ekinci S., Azizler Y. Y.

19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Rome, Italy, 4 - 06 October 2017, pp.345

- X. **Experimental Investigation of the Effects of Wire Feed Rate and Shielding Gas Mixtures on CO<sub>2</sub> Emission during GMAW of Structural Steel with Metal Cored**  
Mert T., Bilgili L., Çelebi U. B., Ekinci S.  
7th International Advances in Applied Physics and Materials Science Congress & Exhibition, Muğla, Turkey, 22 - 26 April 2017, pp.151
- XI. **Otomotiv Sektöründe Kullanılan Sacların Uzaktan Fiber Lazer Kaynağı İle Birleştirilmesinde Kaynak Gücü ve Hızının Nüfuziyete Etkisi**  
Kocatürk B., Akdoğan Eker A., Mert T., Küçükyıldırım B. O., Karaaslan A.  
16. Uluslararası Malzeme Sempozyumu (IMSP 2016), Denizli, Turkey, 12 October 2016, pp.1239-1246
- XII. **Integrated Management System (IMS) for Efficient Welding Process in Shipyards**  
Çelebi U. B., Şenöz K. M., Mert T., Bilgili L., Ekinci S.  
International MacroTrend Conference on Medicine, Science and Technology, Nice, France, 20 - 21 June 2016, vol.1, pp.36
- XIII. **Occupational Safety and Health Welding Risk in Shipyard**  
Şenöz K. M., Çelebi U. B., Mert T., Bilgili L., Ekinci S.  
International MacroTrend Conference on Medicine, Science and Technology, 20 - 21 June 2016, vol.1, pp.35
- XIV. **Occupational Safety and Health Risk Analysis Model for Welding Process in Shipyards**  
Mert T., Şenöz K. M., Bilgili L., Çelebi U. B., Ekinci S.  
4th International Conference on Welding Technologies and Exhibition, Gaziantep, Turkey, 11 - 13 May 2016, vol.1, pp.599-606
- XV. **Occupational Safety and Health Risk Analysis Model for Painting Blasting and Welding Processes in Shipyards**  
Bilgili L., Çelebi U. B., Şenöz K. M., Mert T., Ekinci S.  
18th International Symposium on Environmental Pollution and Its Impact on Life in the Mediterranean Region, Heraklion, Greece, 26 - 30 September 2015, pp.66
- XVI. **Risk Based Management of Occupational Safety and Health for Welding in Shipyards**  
Çelebi U. B., Bilgili L., Mert T., Şenöz K. M., Ekinci S.  
18th International Symposium on Environmental Pollution and Its Impact on Life in the Mediterranean Region, Heraklion, Greece, 26 - 30 September 2015, pp.60
- XVII. **Detrimental Welding Fume in Shipbuilding and Ship Exhaust Gases in Ship Life Cycle**  
Şenöz K. M., Bilgili L., Mert T., Çelebi U. B., Ekinci S.  
8th International Scientific Conference on Naval, Mechanical and Industrial Engineering, Constanta, Romania, 2 - 04 July 2015, pp.22-26
- XVIII. **Fume Formation Rate of Shielded Metal Arc Welding of Stainless Steel Used in Chemical Tankers in Shipbuilding**  
Şenöz K. M., Bilgili L., Mert T., Çelebi U. B., Ekinci S., Vardar N.  
8th International Scientific Conference on Naval, Mechanical and Industrial Engineering, Constanta, Romania, 2 - 04 July 2015, pp.27-32
- XIX. **Experimental cost analysis of double gas shielded GMAW (DMAG) compared with conventional GMAW in welding of carbon steel T-joints**  
MERT T., GÜLTEKİN N.  
2013 3rd International Conference on Advanced Materials and Information Technology Processing, AMITP 2013, Los Angeles, CA, United States Of America, 1 - 02 October 2013, vol.87, pp.275-286
- XX. **Investigation of pollution from welding fume and worker exposure in Turkish Shipyards**  
Mert T., Kuzu S. L., Çelebi U. B., Bilgili L.  
17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, İstanbul, Turkey, 28 September - 01 October 2013, vol.1, pp.133
- XXI. **Formation and Analysis of Welding Fume in Pipe-Line Welding and Its Effect on Worker's Health and Environment**

Mert T., Çelebi U. B., Kuzu S. L.

17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, İstanbul, Turkey, 28 September - 01 October 2013, vol.1, pp.132

**XXII. Occupational Health and Safety Assessment of Emissions of Cutting and Gouging Electrodes Used in Turkish Shipyards**

Mert T., Çelebi U. B.

The 23rd International Nav-Mar-Edu Conference, Constanta, Romania, 30 May - 01 June 2013, pp.86-94

**XXIII. Otomotiv Endüstrisindeki Nokta Direnç Kaynaklı Bağlantıların Ayırma Testi ve Metalografik İncelemesi**

YILDIRIM O., YUMURTACI S., MERT T.

14. Uluslararası Malzeme Sempozyumu (IMSP 2012), 10 - 12 October 2012, pp.898-908

**XXIV. Otomotiv Endüstrisinde Kullanılan Nokta Direnç Kaynak Uygulamalarında İşlem Parametrelerinin Etkilerinin İncelenmesi**

YILDIRIM O., YUMURTACI S., MERT T.

Kaynak Teknolojisi VIII. Ulusal Kongre ve Sergisi, Turkey, 18 - 19 November 2011, pp.249-264

**XXV. Programming of Welding Robots and an Application of a Case Study: Automated Arc Welding of an Automobile Crash Box with Six-Axis Articulated Arm Welding Robot**

Mert T., Yumurtacı S.

Conference of the International Journal of Arts & Sciences, Nevada, United States Of America, 7 - 10 March 2011, vol.4, pp.177-198

**XXVI. Finite Element Analysis of Bolted Steel Plates and the Effect of Element Type and Size on Simulation Results**

Mert T.

Conference of the International Journal of Arts & Sciences, Toronto, Canada, 24 - 27 May 2010, vol.3, pp.404-414

**XXVII. Finite Element Analysis of Effect of Weld Toe Radius and Root Gap on Fatigue Life of T-Fillet Welded Joint**

Mert T.

Conference of the International Journal of Arts & Sciences, Massachusetts, United States Of America, 22 - 25 June 2009, vol.1, pp.119-127

## Supported Projects

2024 - Continues	SÜRDÜRÜLEBİLİR EKLEMELİ İMALAT İÇİN BİYOMEDİKAL UYGULAMALARDA KULLANILAN NiCr ALAŞIM ATIKLARININ GERİ DÖNÜŞÜM SÜRECİNİN GELİŞTİRİLMESİ, Project Supported by Higher Education Institutions
2023 - Continues	Fe Esaslı Biyobozunur İmplant Malzemesi İmalatı ve Karakterizasyonu, Project Supported by Higher Education Institutions
2024 - 2025	Alüminyum Alaşımının TIG Kaynağında Nadir Toprak Elementi Oksitleri İçeren ve İçermeyen (Saf) Farklı Tungsten Elektrotların Kullanımının Dayanım ve Mikroyapı Üzerine Etkileri, TUBITAK Project
2023 - 2024	CMT-WAAM Kaynak Tekniginde Katmanlar Arası Basınçlı Hava ile Sogutmanın Malzeme Üzerine Etkileri, TUBITAK Project
2022 - 2023	Bir Bio Atık Olan Yumurta Kabuğunun Elektrik Ark Kaynağında Örtülü Elektrot Örtü Bileşeni Olarak Kullanılabilirliğinin Araştırılması, Project Supported by Higher Education Institutions
2021 - 2023	Lightening of 26 Liter LPG Cylinder and Increasing Manufacturing Rate, Project Supported by Higher Education Institutions
2018 - 2021	Yüksek mukavemet düşük alaşımlı çeliklerin HSLA gazaltı kaynağında farklı tel, gaz ve parametre kombinasyonları kullanarak elde edilen kaynak metallere mukavemet ve mikroyapılarında meydana gelen farklılıkların araştırılması, Project Supported by Higher Education Institutions
2017 - 2017	İstanbul Yerel Yönetimler Akademisi Projesi, Development Agency



2015 - 2017	Binek araç Koltuk Karkasının Yüksek Güçlü Fiber Lazer Kaynak Yöntemi İle Birleştirilmesi, Industrial Thesis Project
2013 - 2017	Çevreci Tersanelere İlk Adım Gemi İmalatı Sırasında Ortaya Çıkan Çevreye ve İnsana Zararlı Kaynak Gazlarının Ölçümü Duman İçeriğindeki Solunabilir Partiküllerin Analizlerinin Gerçekleştirilmesi ve İş Sağlığı ve Güvenliği Açısından Değerlendirilmesi, Project Supported by Higher Education Institutions
2013 - 2015	Kaynaklı İmalatta Ortaya Çıkan Zararlı Duman Miktarı Ölçümü için Kaynak Dumanı Kabini Tasarımı, İmalatı ve Emisyon Katsayısı Geliştirilmesi, Project Supported by Higher Education Institutions
2009 - 2012	Çift Gaz Yönlendirmeli Gazaltı Kaynağında Koruyucu Gaz Türlerinin Kaynak Dikişinde Ortaya Çıkardığı Farklılıkların Araştırılması, Project Supported by Higher Education Institutions

## Activities in Scientific Journals

2019 - Continues	JOURNAL OF ADVANCES IN MANUFACTURING ENGINEERING, Editor
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## Scientific Refereeing

July 2024	MATERIALS TODAY COMMUNICATIONS, Journal Indexed in SCIE
July 2024	Middle East Journal of Science, National Scientific Refreed Journal
March 2024	INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING, Journal Indexed in SCIE
December 2023	SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, National Scientific Refreed Journal
September 2023	TURKISH JOURNAL OF MARITIME AND MARINE SCIENCES, National Scientific Refreed Journal
March 2023	Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, National Scientific Refreed Journal
January 2023	Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Gedik University, Turkey
December 2022	Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, National Scientific Refreed Journal
July 2022	INTERNATIONAL JOURNAL OF PURE AND APPLIED SCIENCES, National Scientific Refreed Journal
October 2021	JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCIE
October 2021	Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal
October 2020	ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal
October 2020	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, Journal Indexed in SCIE
June 2020	Yıldız Teknik Üniversitesi Sigma Mühendislik ve Fen Bilimleri Dergisi, Journal Indexed in ESCI
May 2020	CUMHURİYET ÜNİVERSİTESİ FEN-EDEBİYAT FAKÜLTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal
May 2020	Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal
May 2020	Acta materialia turcica, Other Indexed Journal
March 2020	JOURNAL OF ADVANCES IN MANUFACTURING ENGINEERING, Other Indexed Journal
December 2019	Yıldız Teknik Üniversitesi Sigma Mühendislik ve Fen Bilimleri Dergisi, Journal Indexed in ESCI
December 2019	Yıldız Teknik Üniversitesi Sigma Mühendislik ve Fen Bilimleri Dergisi, Journal Indexed in ESCI
October 2019	TUBITAK Project, 1501 - Industry R & D Projects Support Program, Yıldız Technical University, Turkey
July 2018	Yıldız Teknik Üniversitesi Sigma Mühendislik ve Fen Bilimleri Dergisi, Journal Indexed in ESCI
April 2017	The 9th International Exergy, Energy and Environment Symposium (IEEES-9), Other journals

October 2016  
December 2012

1. Uluslararası Gemi ve Deniz Teknolojisi Kongresi (GMO-SHIPMAR 2016), Other journals  
Niğde Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal

## Mobility Activity

2019 - 2019 Erasmus Programme, Lecturing, Technische Hochschule Mittelhessen, Germany  
2016 - 2016 Other, Guest Researcher, University of New Orleans, United States Of America  
2007 - 2008 Research Scholarship Program, Guest Researcher, Ohio State University, United States Of America

## Metrics

Publication: 66  
Citation (WoS): 60  
Citation (Scopus): 93  
H-Index (WoS): 4  
H-Index (Scopus): 5

## Scholarships

2017 - Continues Doktora Sırası Araştırma Bursu, Fulbright Program

## Awards

December 2011 Teşekkür Belgesi, Yıldız Teknik Üniversitesi  
May 2009 Best Conference Paper Award (Boston 2009), International Journal of Arts&Sciences

## Non Academic Experience

2019 - 2019 Technische Hochschule Mittelhessen  
2016 - 2016 University of New Orleans  
2007 - 2008 Ohio State University  
2007 - 2007 University of Arizona