

## Lect. PhD CANER BATIGÜN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1995 - 2005

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1989 - 1994

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1985 - 1989

### Foreign Languages

German, B2 Upper Intermediate

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Vocational Training, Laser Welding Engineering Course and Certification, IIS – Italian Institute of Welding, 2016

Vocational Training, Radiographic Interpreter Training and Certification, TWI – The Welding Institute , 2001

Vocational Training, Welding Inspector Training and Certification, TWI – The Welding Institute , 1999

Vocational Training, European Welding Engineer Course and Certification, Schweißtechnische Lehr und Versuchsanstalt München, 1991

### Dissertations

Doctorate, Determination of Welding Parameter Dependent Hot Cracking Susceptibility of 5086-H32 Aluminium Alloy with the Use of MVT Method, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2005

Postgraduate, Optimization of Laser Beam Welding of un- and high- alloyed Steel Sheets, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1994

## Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Mechanical Properties, Physical Properties, Corrosion and Corrosion Protection, Joining and Cutting, Nondestructive Testing, Physical Metallurgy, Thermal Treatment, Plating, Material Characterization, Mechanical Metallurgy, Metallic Materials, Thermal Properties, Engineering and Technology

## Academic Titles / Tasks

Lecturer PhD, Middle East Technical University, Presidency Office, Presidency Office, 1989 - Continues

## Courses

STRENGTH OF MATERIALS, Undergraduate, 2022 - 2023

STRENGTH OF MATERIALS , Undergraduate, 2021 - 2022

Statics and Strength of Materials, Undergraduate, 2020 - 2021

## Advising Theses

Batgün C., Gür C. H., INVESTIGATING THE CREEP RUPTURE BEHAVIOR OF P91 STEEL BY EMPIRICAL APPROACHES: IN AS-MANUFACTURED CONDITION AND AFTER SHIELDED METAL ARC WELDING, Doctorate, M.JUNAID(Student), 2023

Batgün C., Ögel B., Investigation of the microstructural and mechanical properties of DP500 and DP700 quality steels welded with different heat inputs, Postgraduate, K.YILMAZ(Student), 2023

Batgün C., Gürbüz R., EFFECT OF ALLOYING ELEMENTS AND HEAT TREATMENT ON FATIGUE CRACK GROWTH BEHAVIOR OF FE-NI-BASED SUPERALLOYS, Postgraduate, S.TOPUZ(Student), 2022

BATIGÜN C., ÖGEL B., Investigation of mechanical property changes after mig welding of (7XXX) series aluminum alloys, Postgraduate, S.OKAY(Student), 2016

BATIGÜN C., GÜR C. H., Numerical investigation of residual stresses, distortion and microstructure evolution in multi-pass welded steel components, Doctorate, N.GARIPOVA(Student), 2016

BATIGÜN C., ÖGEL B., Optimization of mechanical and microstructural properties of weld joints between aluminium-magnesium and aluminium-magnesium-silicon alloys with different thicknesses, Postgraduate, M.EKŞİ(Student), 2013

GÜR C. H., BATIGÜN C., Non-destructive evaluation of residual stresses in the multi-pass steel weldments, Postgraduate, G.Erian(Student), 2012

BATIGÜN C., GÜRBÜZ R., Microstructural and mechanical characterization of metal active gas welded joint between cast iron and low carbon steel, Postgraduate, M.TOLGA(Student), 2011

BATIGÜN C., GÜRBÜZ R., Effect of welding parameters on the hot cracking behavior of 7039 aluminum-zinc alloy, Postgraduate, M.AKKUŞ(Student), 2010

## Taught Courses And Trainings

Batgün C., Filiz Z., Tansal M., Uluslararası Kaynak Mühendisliği Eğitimi 2023-1 İLKBAHAR DÖNEMİ, 2023 - 2023

Batgün C., Filiz Z., Tansal M., Uluslararası Kaynak Mühendisliği Eğitimi 2022-2 GÜZ DÖNEMİ, 2022 - 2023

Batgün C., Filiz Z., Tansal M., Uluslararası Kaynak Mühendisliği Eğitimi 2022-1 İLKBAHAR DÖNEMİ, 2022 - 2022

Batgün C., Filiz Z., Tansal M., Uluslararası Kaynak Mühendisliği Eğitimi 2021-2 GÜZ DÖNEMİ, 2021 - 2022

Batgün C., Filiz Z., Tansal M., Uluslararası Kaynak Mühendisliği Eğitimi, 2021 - 2021

Batgün C., Filiz Z., Tansal M., Uluslararası Kaynak Mühendisliği Eğitimi, 2020 - 2021

Batgün C., Kaynak Tekniği Eğitimi, 2020 - 2020

Batgün C., Filiz Z., Tansal M., Uluslararası Kaynak Mükendisliği Eitimi, 2020 - 2020

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

- I. **Investigating the Effects of Repair Welding on Microstructure, Mechanical Properties, and Corrosion Behavior of IN-939 Superalloy**  
Mashhuriazar A., Badihehaghdam M., GÜR C. H., ERTÜRK M. T., BATIGÜN C., TİRKEŞ S., Sajuri Z., Omidvar H.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.32, no.15, pp.7016-7028, 2023 (SCI-Expanded)
- II. **Investigating the Effects of Subsequent Weld Passes on Surface Residual Stresses in Steel Weldments by Magnetic Barkhausen Noise Method**  
GÜR C. H., GÖKHAN E., BATIGÜN C., ÇAM İ.  
Materials Evaluation, vol.73, pp.418-423, 2016 (SCI-Expanded)
- III. **Investigating the effects of subsequent weld passes on surface residual stresses in steel weld merits by Magnetic Barkhausen Noise technique**  
GÜR C. H., Erian G., BATIGÜN C., ÇAM İ.  
Materials Evaluation, vol.74, no.3, pp.418-423, 2016 (SCI-Expanded)
- IV. **Investigating the Effects of Subsequent Weld Passes on Surface Residual Stresses in Steel Weldments by Magnetic Barkhausen Noise Technique**  
GÜR C. H., Erian G., BATIGÜN C., ÇAM İ.  
MATERIALS EVALUATION, vol.74, no.3, pp.418-423, 2016 (SCI-Expanded)
- V. **Numerical and experimental determination of the residual stress state in multipass welded API 5LX70 plates**  
Garipova N., BATIGÜN C., GÜR C. H.  
Materialpruefung/Materials Testing, vol.56, no.10, pp.831-836, 2014 (SCI-Expanded)
- VI. **Numerical and Experimental Determination of the Residual Stress State in Multipass Welded API 5L X70 Plates**  
Garipova N., BATIGÜN C., GÜR C. H.  
MATERIALS TESTING, vol.56, no.10, pp.831-836, 2014 (SCI-Expanded)
- VII. **Numerical and Experimental Determination of the Residual Stress State in Multi pass Welded API 5LX70 Plates**  
GARİPOVA N., BATIGÜN C., GÜR C. H.  
Materialpruefung, vol.56, pp.831-836, 2014 (SCI-Expanded)
- VIII. **Hot Cracking Susceptibility of Twin Roll Cast Al-Mg Alloy Welds**  
Tirkes S., BATIGÜN C., Ankara A.  
CANADIAN METALLURGICAL QUARTERLY, vol.49, no.1, pp.73-80, 2010 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Submerged Arc Welding on High Temperature Tensile Properties of P91 Type Steel**  
Aslam J., Batigün C., Gür C. H.  
20. International Metallurgy and Materials Congress, İstanbul, Turkey, 10 - 12 June 2021, vol.1, pp.492
- II. **Effect of Residual Stresses on the Structural Safety of the Butt Welded Structural Steels**  
BATIGÜN C., GÜR C. H.  
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.1108-1111
- III. **Alın Kaynaklı Yapısal Çeliklerdeki Kalıntı Dağılımının Konstrüksiyon Güvenliğine Etkisi**  
GÜR C. H., BATIGÜN C.  
10. Ulusal Kaynak Teknolojisi Kongresi, Ankara, Turkey, 17 - 18 November 2017
- IV. **S235 Çeliğinin MAG Köşe Kaynağında Farklı Sabitleme Noktalarına Bağlı Gelişen Çarpılma Eğilimlerinin Sonlu Elemanlar Yöntemi ile Tahmin Edilmesi**  
BEDİR E., BATIGÜN C., GÜR C. H.  
9. Ulusal Kaynak Teknolojisi Kongresi, Ankara, Turkey, 20 - 21 November 2015, pp.191-207
- V. **Monitoring the Effects of Subsequent Weld Runs on Surface Residual Stresses in Steel Plates by**

### **Magnetic Barkhausen Noise Method**

ERIAN G., BATIGÜN C., ÇAM İ., GÜR C. H.

11th International Conference on Barkhausen Noise & Micromagnetic Testing, Kuşadası, Turkey, 18 - 20 June 2015

### **VI. NONDESTRUCTIVE MONITORING OF VARIATIONS OF RESIDUAL STRESSES IN STEEL WELDMENTS BY MAGNETIC BARKHAUSEN NOISE METHOD**

GÜR C. H., Erian G., BATIGÜN C., ÇAM İ.

ASME Pressure Vessels and Piping Conference (PVP-2013), Paris, France, 14 - 18 July 2013

### **VII. Effect of weld repair on microstructure and mechanical properties of API 5LX65 steel**

BATIGÜN C., Garipova N., Demircan M., GÜR C. H.

International Conference on Advances in Welding Science and Technology for Construction, Energy and Transportation, AWST 2010, held in Conjunction with the 63rd Annual Assembly of the International Institute of Welding, IIW 2010, İstanbul, Turkey, 11 - 17 July 2010, pp.643-649

## **Scientific Refereeing**

MATERIALS SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, November 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ROBO OTOMASYON MÜHENDİSLİK ELEKTRİK MAKİNA SANAYİ VE TİCARET ANONİM ŞİRKETİ , Turkey, November 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, CPS PRESSFORM SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, November 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, MC FİLTRE SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, November 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ÇEKA TASARIM MOBİLYA TEKSTİL SANAYİ VE TİCARET A.Ş., Turkey, August 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, MATAY OTOMOTİV YAN SAN. VE TİC. A.Ş. , Turkey, July 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ÖZDEMİR KAPLAMA VE KAYNAK TEKNOLOJİLERİ SAN. VE TİC. LTD. ŞTİ., Turkey, July 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, WRS ROBOTİK İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ , Turkey, May 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, DEMİRCİOĞLU ROBOTİK BİLİŞİM TEKNOLOJİLERİ SANAYİ VE TİCARET LİMİTED ŞİRKET, Turkey, November 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ZY ELEKTRİKLİ TRAKTÖR SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, April 2021

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, CPS PRESSFORM SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, April 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ZY ELEKTRİKLİ TRAKTÖR SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, April 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, HMD MÜHENDİSLİK DANIŞMANLIK PROJE ENERJİ METAL MAKİNA İMALAT SAN. VE DIŞ TİC. LTD. ŞTİ., Turkey, April 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, HMD MÜHENDİSLİK DANIŞMANLIK PROJE ENERJİ METAL MAKİNA İMALAT SAN. VE DIŞ TİC. LTD. ŞTİ., Turkey, April 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, AYGAZ DOĞAL GAZ TOPTAN SATIŞ ANONİM ŞİRKETİ, Turkey, October 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, MNK ENERJİ KAZAN SİSTEMLERİ MAKİNA SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, April 2020

## **Scientific Consultations**

Döksan Isıl İşlem ve Ar-Ge Merkezi A.Ş. , Project Consultancy, Middle East Technical University, Presidency Office,  
Presidency Office, Turkey, 2021 - Continues

## **Tasks In Event Organizations**

Batgün C., KAYNAK TEKNOLOJİSİ 13. ULUSAL KONGRE VE SERGİSİ, Scientific Congress, Ankara, Turkey, Kasım 2023

Batgün C., 21. Uluslararası Metalurji ve Malzeme Kongresi, Scientific Congress, İstanbul, Turkey, Ekim 2022

Batgün C., 12. KAYNAK TEKNOLOJİSİ ULUSAL KONGRE VE SERGİSİ, Scientific Congress, Ankara, Turkey, Kasım 2021

## **Metrics**

Publication: 15

Citation (WoS): 37

Citation (Scopus): 8

H-Index (WoS): 2

H-Index (Scopus): 1