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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji, Türkiye 1989 - 1995

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji, Türkiye 1986 - 1989

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji, Türkiye 1981 - 1986

Yabancı Diller

Almanca, B1 Orta

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Finite element modelling and measurement of stress evolution in quenching processes, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Mühendisliği (Dr), 1995

Yüksek Lisans, Finite element simulation of rigid-plastic deformation on micro-computers, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), 1989

Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Malzeme Testi ve Kontrolü, Mekanik Özellikler, Tahribatsız Muayeneler, Isıl İşlem, Malzeme Karakterizasyonu, Mekanik Metalurji, Metalik Malzemeler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2008 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2002 - 2008
Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 1997 - 2002

Uzman, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 1996 - 1997
Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 1988 - 1996

Akademik İdari Deneyim

Merkez Müdürü, Orta Doğu Teknik Üniversitesi, Rektörlük, Welding Technology and Non-Destructive Testing Research and Application Center, 2007 - 2024

Bölüm Başkanı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2012 - 2022

Verdiği Dersler

Mechanical Behavior of Materials, Lisans, 2020 - 2021

Non-Destructive Evaluation of Materials, Lisans, 2019 - 2020

Yönetilen Tezler

Akdeniz M. V., Gür C. H., DEVELOPMENT AND INVESTIGATION OF METAL-CERAMIC BRAZING TECHNIQUES FOR ULTRA HIGH VACUUM APPLICATIONS, Yüksek Lisans, A.SERDAR(Öğrenci), 2024

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, Doktora, M.JUNAID(Öğrenci), 2023

Yurtışık K., Gür C. H., Fracture toughness of wire arc additive manufactured duplex stainless steel grade 2509, Yüksek Lisans, R.BATUHAN(Öğrenci), 2023

Gür C. H., DESIGNING THE MICROSTRUCTURE OF ADDITIVELY MANUFACTURED IN718 COMPONENTS BY OPTIMIZING THE PROCESS AND HEAT TREATMENT PARAMETERS TO IMPROVE MECHANICAL PROPERTIES, Doktora, T.KALELİ(Öğrenci), 2023

Gür C. H., Nondestructive evaluation of the effects of carburizing process parameters on microstructure and residual stress state of sae 9310 steel via magnetic barkhausen noise method, Yüksek Lisans, Z.YILDIRIM(Öğrenci), 2022

Gür C. H., Investigating effects of heat treatment processes on microstructural and mechanical properties of additively manufactured 18ni300 maraging steel, Yüksek Lisans, İ.Aydın(Öğrenci), 2020

Gür C. H., Yurtışık K., Effects of heat input and thermal cycles to the fracture toughness of api 5L grade X70m steel welded by gas metal arc welding, Yüksek Lisans, E.EROL(Öğrenci), 2019

GÜR C. H., Investigating the fracture behaviour of X70M linepipe steel girth weldments via single edge notched tension and bend tests, Yüksek Lisans, U.TOSUN(Öğrenci), 2018

GÜR C. H., Determination of shot peening effect on fatigue behavior of AISI 4140 steel by non-destructive measurement of surface residual stresses, Yüksek Lisans, S.ÇALIŞKAN(Öğrenci), 2018

GÜR C. H., YURTIŞIK K., Microstructure control of AISI 4135 for optimization of fatigue and fracture performance, Yüksek Lisans, B.ÖZCAN(Öğrenci), 2018

GÜR C. H., Semente edilmiş AISI/SAE 8620 çeliğindeki kalıntı gerilim durumunun tahribatsız muayene yöntemleri ile belirlenmesi, Yüksek Lisans, T.Kaleli(Öğrenci), 2017

GÜR C. H., YURTIŞIK K., Investigation of key-hole weldability of line pipe steel grade X70M in terms of fracture toughness, Yüksek Lisans, M.ÇAĞIRICI(Öğrenci), 2017

GÜR C. H., Numerical prediction and experimental investigation of fretting fatigue crack initiation at railway axle-wheel contacts, Doktora, G.GÜRER(Öğrenci), 2017

GÜR C. H., Semente edilmiş çeliklerde içyapı ve kalıntı gerilimdeki değişimlerin tahribatsız yöntemlerle tespit edilmesi, Yüksek Lisans, H.Hızlı(Öğrenci), 2016

GÜR C. H., Utilization of friction stir processing to improve the mechanical properties of gas metal arc welded 5083 aluminum alloy plates, Yüksek Lisans, S.TAKHT(Öğrenci), 2016

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

GÜR C. H., Chemical expansion in manganites, Yüksek Lisans, M.HAZAR(Öğrenci), 2015

GÜR C. H., Effect of friction stir processing on fracture toughness and crack growth behaviour of fusion welded 5083 grade aluminum plates, Yüksek Lisans, G.AKÇAY(Öğrenci), 2015

GÜR C. H., Investigating the reliability of ultrasound phased array method and conventional ultrasonic testing for detection of defects in austenitic stainless steels, Yüksek Lisans, B.AKGÜN(Öğrenci), 2015

GÜR C. H., EFFECTS OF FRICTION STIR PROCESSING ON MICROSTRUCTURE AND FATIGUE CRACK GROWTH BEHAVIOUR OF GAS METAL ARC (GMA) WELDED 5059 ALUMINUM ALLOY, Yüksek Lisans, C.YAZGANARIKAN(Öğrenci), 2014

GÜR C. H., Comparison of the flaw detection abilities of phased array and conventional ultrasonic testing methods in various steels, Yüksek Lisans, M.YALÇIN(Öğrenci), 2014

GÜR C. H., Characterization of SAE 52100 bearing steel for finite element simulation of through-hardening process, Yüksek Lisans, O.MÜŞTAK(Öğrenci), 2014

KALAY Y. E., GÜR C. H., Investigation of microstructural homogeneity and thermal stability of equal channel angular pressed and aged 2024 Al alloy, Doktora, G.KOTAN(Öğrenci), 2014

GÜR C. H., 304L östenitik paslanmaz çeliklerin alın kaynak işlemlerinde oluşan kalıntı gerilmelerin sayısal analizi ve deneysel ölçülmesi, Yüksek Lisans, A.AZHDARFAEGHİBONAB(Öğrenci), 2014

GÜR C. H., Düşük karbonlu çelik saçlarda deformasyon ve tavlama dokusunun manyetik anizotropi üzerine etkisinin manyetik Barkhausen gürültüsü yöntemi ile incelenmesi, Yüksek Lisans, F.Ümit(Öğrenci), 2013

GÜR C. H., GÜRBÜZ R., Microstructural and mechanical characterization of duplex stainless steel grade 2205 joined by hybrid plasma and gas metal arc welding, Yüksek Lisans, B.TOLUNGÜÇ(Öğrenci), 2012

ÖGEL B., GÜR C. H., Severe plastic deformation of age hardenable aluminum alloys, Doktora, E.TAN(Öğrenci), 2012

GÜR C. H., Investigation of the effects of equal channel angular extrusion on light weight alloys, Doktora, P.KARPUZ(Öğrenci), 2012

GÜR C. H., BATIGÜN C., Çoklu pası yapılarak kaynaklanmış çeliklerde kalıntı gerilmelerin tahribatsız yöntemlerle belirlenmesi, Yüksek Lisans, G.Erian(Öğrenci), 2012

GÜR C. H., Gür C., Derin çekme ve şişirme işlemlerinden sonra çelik sacların yüzeykalıntı gerilmelerin belirlenmesi, Yüksek Lisans, S.Adıgüzel(Öğrenci), 2011

GÜR C. H., Bilyalı sertleştirme ile oluşturulan kalıntı gerilmelerin ve bunların bilyalı rulmanların yorulma ömrüne etkilerinin deneysel incelenmesi, Yüksek Lisans, A.Küçükyılmaz(Öğrenci), 2010

GÜR C. H., Gür C., Çelik shaftların sertleştirilmesi sırasında oluşan çarpılmaların analitik, numerik ve deneysel olarak incelenmesi, Yüksek Lisans, B.Pelin(Öğrenci), 2010

ÖGEL B., GÜR C. H., Design and production of a dissimilar channel angular pressing system to obtain high strength aluminum alloy sheets, Yüksek Lisans, G.EMRE(Öğrenci), 2009

GÜR C. H., Yüksek basınçlı burulmayla üretilmiş aşırı ince taneli çelik numunelerin manyetik barkhausen gürültü analiziyle karakterizasyonu, Yüksek Lisans, S.Bayramoğlu(Öğrenci), 2009

GÜR C. H., 3D finite element simulation of steel quenching in order to determine the microstructure and residual stresses, Doktora, C.ŞİMŞİR(Öğrenci), 2008

GÜR C. H., Characterization of dual phase steels by using magnetic barkhausen noise analysis, Yüksek Lisans, M.KAPLAN(Öğrenci), 2006

GÜR C. H., Çelik içyapılarının manyetik barkhausen gürültüsü yöntemi ile karakterizasyonu, Yüksek Lisans, K.Davut(Öğrenci), 2006

GÜR C. H., Ae1-Ae3 kritik sıcaklık aralığından su verilen ötektoid-altı çeliklerde manyetik barkhausen gürültüsü tekniği ile mikroyapı karakterizasyonu, Yüksek Lisans, B.Boyacıoğlu(Öğrenci), 2006

GÜR C. H., Çelik ve alüminyum saclarının derin çekilebilirliğinin sonlu eleman benzetimi ile araştırılması, Yüksek Lisans, Ç.Sönmez(Öğrenci), 2005

GÜR C. H., Su verme işleminde oluşan gerilmelerin sonlu eleman yöntemiyle modellenmesi, Yüksek Lisans,

D.Dođu(Öğrenci), 2005

GÜR C. H., Isıl işlem ve kompozisyonun hadfield çeliklerin mikroyapısına ve mekanik özelliklerine olan etkileri, Yüksek Lisans, S.Alyaz(Öğrenci), 2003

Gür H., Investigation of the effect of spinning process on the mechanical properties and microstructure of AISI/SAE 4140 steel, Yüksek Lisans, E.Burçak(Öğrenci), 2001

GÜR C. H., Computer modeling with ANSYS software to investigate the evaluation of thermal stresses and residual stresses during quenching, Yüksek Lisans, R.EREN(Öğrenci), 2001

GÜR C. H., Computer modeling with ansys software to investigate the evolution of thermal stresses during quenching, Yüksek Lisans, R.Eren(Öğrenci), 2001

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Investigating the Effects of CoMoCrSi Powder Composition and Particle Size, and Annealing Heat Treatment on Microstructure and Mechanical and Tribological Performance of HVOF Sprayed Coatings**
Ertürk M. T., Tirkeş S., Gür C. H.
METALS AND MATERIALS INTERNATIONAL, cilt.30, sa.12, ss.3268-3293, 2024 (SCI-Expanded)
- II. **Influence of Shielding Gas on the Microstructure and Mechanical Properties of Duplex Stainless Steel in Wire Arc Additive Manufacturing**
Akbarzadeh E., YURTIŞIK K., Hakan Gür C. H., Saeid T., Tavangar R.
METALS AND MATERIALS INTERNATIONAL, cilt.30, sa.7, ss.1977-1996, 2024 (SCI-Expanded)
- III. **The effects of SLM process parameters on the relative density and hardness of austenitic stainless steel 316L**
Bakhtiarian M., Omidvar H., Mashhuriazar A., Sajuri Z., GÜR C. H.
Journal of Materials Research and Technology, cilt.29, ss.1616-1629, 2024 (SCI-Expanded)
- IV. **Determination of the anisotropy in mechanical properties of laser powder bed fusion Inconel 718 by ultrasonic testing**
Alay T., Cagirci M., Yagmur A., Gür C. H.
NONDESTRUCTIVE TESTING AND EVALUATION, ss.1-19, 2024 (SCI-Expanded)
- V. **Tailoring the microstructure and mechanical properties of IN718 alloy via a novel scanning strategy implemented in laser powder bed fusion**
KALELİ ALAY T., Cagirci M., Yalcin M. Y., Yagmur A., TİRKEŞ S., AYDOĞAN GÜNGÖR E., GÜR C. H.
Materials Science and Engineering: A, cilt.884, 2023 (SCI-Expanded)
- VI. **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, cilt.32, sa.15, ss.7016-7028, 2023 (SCI-Expanded)
- VII. **Effects of heat input on metallurgical behavior in HAZ of multi-pass and multi-layer welded IN-939 superalloy**
Mashhuriazar A., GÜR C. H., Sajuri Z., Omidvar H.
Journal of Materials Research and Technology, cilt.15, ss.1590-1603, 2021 (SCI-Expanded)
- VIII. **Effect of Welding Parameters on the Liquation Cracking Behavior of High-Chromium Ni-Based Superalloy**
Mashhuriazar A., Omidvar H., GÜR C. H., Sajuri Z.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, cilt.29, sa.12, ss.7843-7852, 2020 (SCI-Expanded)
- IX. **Effects of Pre-Weld Heat Treatment and Heat Input on Metallurgical and Mechanical Behaviour in HAZ of Multi-Pass Welded IN-939 Superalloy**
Mashhuriazar A., Omidvar H., Sajuri Z., GÜR C. H., Baghdadi A. H.
METALS, cilt.10, sa.11, 2020 (SCI-Expanded)
- X. **Determination of surface residual stresses in carburised AISI 8620 steel by the magnetic**

Barkhausen noise method

Kaleli T., GÜR C. H.

INSIGHT, cilt.62, sa.7, ss.416-421, 2020 (SCI-Expanded)

- XI. **Effect of microstructural modification on damage tolerance of 34CrMo4 shaft steel**
Ozcan B., Gurer G., GÜR C. H.
FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, cilt.43, sa.6, ss.1214-1225, 2020 (SCI-Expanded)
- XII. **Investigating the correlation between magnetic Barkhausen noise emission and the fatigue life of shot-peened AISI 4140 steel**
Çalışkan S., GÜR C. H.
Insight: Non-Destructive Testing and Condition Monitoring, cilt.61, sa.12, ss.701-705, 2019 (SCI-Expanded)
- XIII. **Failure analysis of fretting fatigue initiation and growth on railway axle press-fits**
GURER G., GÜR C. H.
ENGINEERING FAILURE ANALYSIS, cilt.84, ss.151-166, 2018 (SCI-Expanded)
- XIV. **Applicability of the Magnetic Barkhausen Noise Method for Nondestructive Measurement of Residual Stresses in the Carburized and Tempered 19CrNi5H Steels**
HIZLI H., GÜR C. H.
RESEARCH IN NONDESTRUCTIVE EVALUATION, cilt.29, sa.4, ss.221-236, 2018 (SCI-Expanded)
- XV. **Comparison of Electronic Speckle Laser Interferometry Hole-Drilling and X-ray Diffraction Techniques for Determination of Residual Stresses in the Heat Treated Steels**
HIZLI H., GÜR C. H.
JOURNAL OF NONDESTRUCTIVE EVALUATION, cilt.36, sa.2, 2017 (SCI-Expanded)
- XVI. **Long-term thermal stability of Equal Channel Angular Pressed 2024 aluminum alloy**
TAN G., KALAY Y. E., GÜR C. H.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.677, ss.307-315, 2016 (SCI-Expanded)
- XVII. **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, cilt.74, sa.3, ss.418-423, 2016 (SCI-Expanded)
- XVIII. **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, cilt.74, sa.3, ss.418-423, 2016 (SCI-Expanded)
- XIX. **Investigating the formation of intermetallic compounds during friction stir welding of magnesium alloy to aluminum alloy in air and under liquid nitrogen**
Mofid M. A., Abdollah-zadeh A., Guer C. H.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, cilt.71, ss.1493-1499, 2014 (SCI-Expanded)
- XX. **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, cilt.56, sa.10, ss.831-836, 2014 (SCI-Expanded)
- XXI. **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, cilt.56, sa.10, ss.831-836, 2014 (SCI-Expanded)
- XXII. **Characterization of Duplex Stainless Steel Weld Metals Obtained by Hybrid Plasma-Gas Metal Arc Welding**
YURTIŞIK K., TİRKEŞ S., Dykhno I., GÜR C. H., GÜRBÜZ R.
SOLDAGEM & INSPECAO, cilt.18, sa.3, ss.207-216, 2013 (SCI-Expanded)

- XXIII. **Homogenization of ECAPed Al 2024 alloy through age-hardening**
KOTAN G., TAN E., KALAY Y. E., GÜR C. H.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.559, ss.601-606, 2013 (SCI-Expanded)
- XXIV. **Submerged Friction-Stir Welding (SFSW) Underwater and Under Liquid Nitrogen: An Improved Method to Join Al Alloys to Mg Alloys**
Mofid M. A., Abdollah-Zadeh A., Ghaini F. M., GÜR C. H.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, sa.13, ss.5106-5114, 2012 (SCI-Expanded)
- XXV. **Determining the Elastic Properties of Modified Polystyrenes by Sound Velocity Measurements**
Oral I., Guzel H., Ahmetli G., GÜR C. H.
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.121, sa.6, ss.3425-3432, 2011 (SCI-Expanded)
- XXVI. **Mechanical and microstructural characterization of 6061 aluminum alloy strips severely deformed by Dissimilar Channel Angular Pressing**
Tan E., KİBAR A. A., Gur C. H.
MATERIALS CHARACTERIZATION, cilt.62, sa.4, ss.391-397, 2011 (SCI-Expanded)
- XXVII. **Monitoring variation of surface residual stresses in shot peened steel components by the magnetic Barkhausen noise method**
SAVAŞ S., GÜR C. H.
INSIGHT, cilt.52, sa.12, ss.672-677, 2010 (SCI-Expanded)
- XXVIII. **Monitoring the Microstructural Evolution in Spheroidized Steels by Magnetic Barkhausen Noise Measurements**
DAVUT K., GÜR C. H.
JOURNAL OF NONDESTRUCTIVE EVALUATION, cilt.29, sa.4, ss.241-247, 2010 (SCI-Expanded)
- XXIX. **INFLUENCE OF DCAP PROCESS ON THE MECHANICAL PROPERTIES OF 6061 Al-ALLOY SHEET**
Tan E., GÜR C. H.
REVIEWS ON ADVANCED MATERIALS SCIENCE, cilt.25, sa.2, ss.189-193, 2010 (SCI-Expanded)
- XXX. **Quantitative analysis of the influence of strain hardening on equal channel angular pressing process**
ŞİMŞİR C., Karpuz P., GÜR C. H.
COMPUTATIONAL MATERIALS SCIENCE, cilt.48, sa.3, ss.633-639, 2010 (SCI-Expanded)
- XXXI. **Characterization of ultra-fine grained steel samples produced by high pressure torsion via magnetic Barkhausen noise analysis**
Bayramoglu S., GÜR C. H., Alexandrov I. V., Abramova M. M.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.527, ss.927-933, 2010 (SCI-Expanded)
- XXXII. **A Simulation of the Quenching Process for Predicting Temperature, Microstructure and Residual Stresses**
Simsir C., GÜR C. H.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, cilt.56, sa.2, ss.93-103, 2010 (SCI-Expanded)
- XXXIII. **Non-destructive determination of residual stress state in steel weldments by Magnetic Barkhausen Noise technique**
YELBAY H. İ., ÇAM İ., Guer C. H.
NDT & E INTERNATIONAL, cilt.43, sa.1, ss.29-33, 2010 (SCI-Expanded)
- XXXIV. **Investigating the effects of hardening of aluminium alloys on equal-channel angular pressing-A finite-element study**
Karpuz P., Simsir C., GÜR C. H.
Materials Science and Engineering A, cilt.503, ss.148-151, 2009 (SCI-Expanded)
- XXXV. **A review on modeling and simulation of quenching**
Şimşir C., Hakan Gür C. H.
Journal of ASTM International, cilt.6, sa.2, 2009 (SCI-Expanded)
- XXXVI. **A FEM based framework for simulation of thermal treatments: Application to steel quenching**

- Şimsir C., GÜR C. H.
COMPUTATIONAL MATERIALS SCIENCE, cilt.44, sa.2, ss.588-600, 2008 (SCI-Expanded)
- XXXVII. **Utilization of Non-destructive Methods for Determining the Effect of Age-Hardening on Impact Toughness of 2024 Al-Cu-Mg Alloy**
GÜR C. H., Yildiz I.
JOURNAL OF NONDESTRUCTIVE EVALUATION, cilt.27, sa.4, ss.99-104, 2008 (SCI-Expanded)
- XXXVIII. **3D FEM simulation of steel quenching and investigation of the effect of asymmetric geometry on residual stress distribution**
Simsir C., GÜR C. H.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, cilt.207, ss.211-221, 2008 (SCI-Expanded)
- XXXIX. **Investigation of the variations in microstructure and mechanical properties of dual-matrix ductile iron by Magnetic Barkhausen Noise analysis**
GÜR C. H., Ozer M., Erdogan M.
RESEARCH IN NONDESTRUCTIVE EVALUATION, cilt.19, sa.1, ss.44-60, 2008 (SCI-Expanded)
- XL. **EFFECT OF ECAP AND POST-AGING PROCESSES ON 2024 ALUMINUM ALLOY**
Saraloglu E., Tan E., GÜR C. H.
STEEL RESEARCH INTERNATIONAL, ss.467-471, 2008 (SCI-Expanded)
- XLI. **Characterization of dual-phase steels using magnetic barkhausen noise technique**
KAPLAN M., Guer C. H., Erdogan M.
JOURNAL OF NONDESTRUCTIVE EVALUATION, cilt.26, ss.79-87, 2007 (SCI-Expanded)
- XLII. **Monitoring the microstructural changes during tempering of quenched SAE 5140 steel by magnetic barkhausen noise**
Davut K., Guer C. H.
JOURNAL OF NONDESTRUCTIVE EVALUATION, cilt.26, ss.107-113, 2007 (SCI-Expanded)
- XLIII. **Comparison of magnetic Barkhausen noise and ultrasonic velocity measurements for microstructure evaluation of SAE 1040 and SAE 4140 steels**
Gur C. H., Cam I.
MATERIALS CHARACTERIZATION, cilt.58, sa.5, ss.447-454, 2007 (SCI-Expanded)
- XLIV. **Determination of the influence of TiO₂ on the elastic properties of a mica based glass ceramic by ultrasonic velocity measurements**
Gur C. H., Ozturk A.
JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.351, ss.3655-3662, 2005 (SCI-Expanded)
- XLV. **Characterization of microstructural phases of steels by sound velocity measurement**
Gur C. H., Tuncer B.
MATERIALS CHARACTERIZATION, cilt.55, sa.2, ss.160-166, 2005 (SCI-Expanded)
- XLVI. **Microstructural investigation of SAE 1040 steel specimens by ultrasonic measurements**
Gur C. H., Tuncer B.
INSIGHT, cilt.47, sa.7, ss.421-424, 2005 (SCI-Expanded)
- XLVII. **Non-destructive investigation on the effect of precipitation hardening on impact toughness of 7020 Al-Zn-Mg alloy**
Gur C. H., Yildiz I.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.382, ss.395-400, 2004 (SCI-Expanded)
- XLVIII. **Investigation of microstructure-ultrasonic velocity relationship in SiCp-reinforced aluminium metal matrix composites**
GÜR C. H.
Materials Science and Engineering A, cilt.361, ss.29-35, 2003 (SCI-Expanded)
- XLIX. **Effect of tube spinning and subsequent heat treatments on strength, microstructure and residual stress state of AISI/SAE type 4140 steel**
Gur C. H., ARDA E.
MATERIALS SCIENCE AND TECHNOLOGY, cilt.19, sa.11, ss.1590-1594, 2003 (SCI-Expanded)

- L. **Ultrasonic characterisation of hot-rolled and heat-treated plain carbon steels**
Gur C., Keles Y.
INSIGHT, cilt.45, sa.9, ss.615-620, 2003 (SCI-Expanded)
- LI. **Investigation of the influence of specimen geometry on quench behaviour of steels by X-ray determination of surface residual stresses**
GÜR C. H.
International Journal of Mechanical Sciences, cilt.44, sa.7, ss.1335-1347, 2002 (SCI-Expanded)
- LII. **Numerical investigation of non-homogenous plastic deformation in quenching process**
GÜR C. H., Tekkaya A. E.
Materials Science and Engineering A, ss.164-169, 2001 (SCI-Expanded)
- LIII. **Investigation of SiCp reinforced aluminium matrix composites by shear and longitudinal ultrasonic waves**
GÜR C. H.
Insight: Non-Destructive Testing and Condition Monitoring, cilt.43, sa.11, ss.748-750, 2001 (SCI-Expanded)
- LIV. **Non-destructive microstructural characterization of aluminium matrix composites by ultrasonic techniques**
GÜR C. H., ÖGEL B.
Materials Characterization, cilt.47, ss.227-233, 2001 (SCI-Expanded)
- LV. **Microstructural characterisation of ductile irons by measuring velocity and apparent attenuation of ultrasonic waves**
Gur C., Aydinmakina B.
INSIGHT, cilt.43, sa.11, ss.731-734, 2001 (SCI-Expanded)
- LVI. **Non-Destructive Testing Committee of the Turkish Chamber of Metallurgical Engineers**
GÜR C. H.
Insight: Non-Destructive Testing and Condition Monitoring, cilt.40, sa.9, ss.613-615, 1998 (SCI-Expanded)
- LVII. **The Non-Destructive Testing Committee of the Turkish Chamber of Metallurgical Engineers**
Gur C.
INSIGHT, cilt.40, sa.9, ss.613-615, 1998 (SCI-Expanded)
- LVIII. **Untitled - Comment**
Gur C.
INSIGHT, cilt.40, sa.9, ss.602, 1998 (SCI-Expanded)
- LIX. **Quality management system in non-destructive testing laboratories: Accreditation as a testing laboratory**
Gur C.
INSIGHT, cilt.40, sa.9, ss.621-623, 1998 (SCI-Expanded)
- LX. **Investigation of fatigue and creep damage in steam bailer pipes by ultrasonic testing**
Tekin B., Gur C., Ankara O.
INSIGHT, cilt.39, sa.9, ss.626-629, 1997 (SCI-Expanded)
- LXI. **Investigation of fatigue and creep damage in steam boiler pipes by ultrasonic testing**
Tekin B., GÜR C. H., Ankara O.
Insight: Non-Destructive Testing and Condition Monitoring, cilt.39, sa.9, ss.626-629, 1997 (SCI-Expanded)
- LXII. **Effect of boundary conditions and workpiece geometry on residual stresses and microstructure in quenching process**
GÜR C. H., TEKKAYA E., Schuler W.
STEEL RESEARCH, cilt.67, sa.11, ss.501-506, 1996 (SCI-Expanded)
- LXIII. **Finite element simulation of quench hardening**
Gur C., Tekkaya A.
STEEL RESEARCH, cilt.67, sa.7, ss.298-306, 1996 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **An Empirical Approach to Analyze Creep Rupture Behavior of P91 Steel**
Aslam M. J., GÜR C. H.
Korean Journal of Materials Research, cilt.31, sa.5, ss.255-263, 2021 (ESCI)
- II. **Review of Residual Stress Measurement by Magnetic Barkhausen Noise Technique**
GÜR C. H.
MATERIALS PERFORMANCE AND CHARACTERIZATION, cilt.7, sa.4, ss.504-525, 2018 (ESCI)
- III. **Sementasyon İşlemi Uygulanan Çeliklerdeki Kalıntı Gerilmelerin Tahribatsız Tekniklerle Ölçülmesi**
HIZLI H., KALELİ T., GÜR C. H.
METALURJİ, ss.30-35, 2016 (Hakemli Dergi)
- IV. **Description of the PM process by using Ishikawa-analysis**
Simon A., Kovács K., GÜR C. H., Pieczonka T., Gácsi Z.
Materials Science Forum, cilt.752, ss.48-56, 2013 (Scopus)
- V. **Characterization of steel microstructures by magnetic barkhausen noise technique**
GÜR C. H.
RILEM Bookseries, cilt.6, ss.499-504, 2012 (Scopus)
- VI. **Simulation of Quenching: A Review**
GÜR C. H., Şimşir C.
MATERIALS PERFORMANCE AND CHARACTERIZATION, cilt.1, sa.1, 2012 (ESCI)
- VII. **Metallurgical influence on quench distortion of SAE 52100 long cylinders**
Maradit B., Şimşir C., Lübben T., GÜR C. H.
International Heat Treatment and Surface Engineering, cilt.5, sa.2, ss.57-60, 2011 (Scopus)
- VIII. **A new framework for simulation of heat treatments**
Şimşir C., GÜR C. H.
International Journal of Microstructure and Materials Properties, cilt.5, ss.399-411, 2010 (Scopus)
- IX. **A review on modeling and simulation of quenching**
Şimşir C., Hakan Gür C. H.
ASTM Special Technical Publication, ss.117-156, 2010 (Scopus)
- X. **Simulation of equal channel angular pressing applied to produce structures with ultrafine-sized grains**
Karpuz P., ŞİMŞİR C., Hakan Gür C. H.
International Journal of Microstructure and Materials Properties, cilt.4, sa.3, ss.356-367, 2009 (Scopus)
- XI. **A mathematical framework for simulation of thermal processing of materials: Application to steel quenching**
Şimşir C., GÜR C. H.
Turkish Journal of Engineering and Environmental Sciences, cilt.32, sa.2, ss.85-100, 2008 (Scopus)
- XII. **Investigation of as-quenched and tempered commercial steels by Magnetic Barkhausen Noise method**
GÜR C. H., ÇAM İ.
International Journal of Microstructure and Materials Properties, cilt.1, sa.2, ss.208-218, 2006 (Scopus)
- XIII. **Nondestructive investigation of the effect of quenching and tempering on medium-carbon low alloy steels**
Hakan Gür C. H., TUNCER B.
International Journal of Microstructure and Materials Properties, cilt.1, sa.1, ss.51-60, 2005 (Scopus)
- XIV. **Modeling of reversible γ/α transformations of low carbon steels in the intercritical temperature range**
Reti T., Felde I., Gur H.
Cailliao Rechuli Xuebao/Transactions of Materials and Heat Treatment, cilt.25, sa.5, ss.702-705, 2004 (Scopus)
- XV. **Numerical and experimental analysis of quench induced stresses and microstructures**
GÜR C. H., TEKKAYA E.

Kitap & Kitap Bölümleri

- I. **Residual Stress**
Gür C. H.
Quenchants and Quenching Technology, Vol 4F, ASM Handbook, Canale Lauralice C.F.,Luo Xinmin,Otero Rosa Simencio,Totten George E., Editör, ASM International, Ohio, ss.503-526, 2024
- II. **Nondestructive Characterization of Microstructures of Heat-Treated Steels by Magnetic Barkhausen Noise Technique**
GÜR C. H.
Characterization of Minerals, Metals, and Materials, "Ikhmayies, S.", "Li, B.", "Carpenter, J.S.", "Li, J.", "et al", Editör, Springer-Verlag , Ny, ss.371-376, 2017
- III. **Chp. 17: Simulation of Quenching**
Şimşir C., Gür C. H.
Quenching Theory & Technology, 2nd Edition, "Bozidar Liscic", "Hans M. Tensi", "Lauralice C.F. Canale", "George E. Totten", Editör, CRC Press, Taylor & Francis Group, New York, ss.605-667, 2010
- IV. **A Review on Modeling and Simulation of Quenching**
Şimşir C., Gür C. H.
TP 1523 (Selected Technical Papers) : Quenching and Cooling, Residual Stress and Distortion Control, L.C.F. Canale,M. Narazaki, Editör, ASTM : American Society for Testing and Materials , Ohio, 2010
- V. **Simulation of Quenching**
ŞİMŞİR C., GÜR C. H.
Handbook of Thermal Process Modeling of Steels, GÜR C.H., PAN, J., Editör, CRC Press, Taylor Francis, New York, ss.341-425, 2009
- VI. **Handbook of Thermal Process Modeling of Steels**
Gür C. H. (Editör), Pan J. (Editör)
CRC, New York , New York, 2008

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **35th Anniversary of the German-Turkish Project (1988-1996) for Establishment of Welding Technology and Nondestructive Testing Research and Application Center**
Gür C. H.
DGZfP - German NDT Society Annual Conference, Friedrichshafen, Ulm, Almanya, 15 - 17 Mayıs 2023, ss.1-6
- II. **Effect of Aging Heat Treatment on Microstructure and Mechanical Properties of Additively Manufactured 18Ni300 Maraging Steel**
Ayдын İ., Kaleli Alay T., Gür C. H.
Bosphorus International Heat Treatment Symposium, İstanbul, Türkiye, 11 - 13 Mayıs 2022, ss.78-84
- III. **Non-Destructive Methods for Assessment and Qualification of Metallic Components Additively Manufactured by Powder Bed Fusion Processes**
Gür C. H.
International Conf on Adv Mater Sci & Eng and High Tech Devices Applications (ICMATSE 2022, Ankara, 27-29 Oct 2022), Ankara, Türkiye, 27 - 29 Ekim 2022, ss.22-27
- IV. **Effect of Secondary Austenite on Fracture Toughness Properties of Wire Arc Additively Manufactured Duplex Stainless Steels**
Yurtışık K., Ersan B., Akbarzadeh Chiniforoush E., Gür C. H.
International Additive Manufacturing Conference, IAM 2022, Lisbon, Portekiz, 19 - 21 Ekim 2022
- V. **Effects of Build Orientation and Process Parameters on Mechanical Behavior of IN718 Components**

Manufactured by Selective Laser Melting Method

Kaleli Alay T., Yağmur A., Gür C. H.

21st International Metallurgy & Materials Congress, İstanbul, Türkiye, 6 - 08 Ekim 2022, ss.599

- VI. **Effect of Submerged Arc Welding on High Temperature Tensile Properties of P91 Type Steel**
Aslam J., Batıgün C., Gür C. H.
20. International Metallurgy and Materials Congress, İstanbul, Türkiye, 10 - 12 Haziran 2021, cilt.1, ss.492
- VII. **Effect of Heat Treatment on Microstructure and Mechanical Properties of Additively Manufactured 18Ni300 Maraging Steels**
Aydın İ., Yağmur A., Tirkeş S., Gür C. H.
20. International Metallurgy and Materials Congress, İstanbul, Türkiye, 10 - 12 Haziran 2021, cilt.1, ss.243
- VIII. **Optimizing the Heat Treatment Parameters of Additively Manufactured IN718 Components**
Kaleli T., Yağmur A., Tirkeş S., Gür C. H.
20. International Metallurgy and Materials Congress, İstanbul, Türkiye, 10 - 12 Haziran 2021, cilt.1, ss.275
- IX. **Nondestructive Evaluation of Additively Manufactured Metallic Components**
Gür C. H.
International Conference on Adv Mater Sci & Eng and High Tech Devices Applications (ICMATSE 2020), Ankara, Türkiye, 2 - 04 Ekim 2020, sa.117, ss.173
- X. **Kara ve Su-Altı Boru Hattı Sistemlerinde Yarı-Statik Kırılma Tokluğu ve Kırılma Direnç Eğrilerinin Belirlenmesi**
Erol E., Tosun U., YURTIŞIK K., GÜR C. H.
11. Ulusal Kaynak Teknolojisi Kongresi, Ankara, Türkiye, 15 - 16 Kasım 2019
- XI. **Materials Characterization using Nondestructive Methods**
GÜR C. H.
INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE, İstanbul, Türkiye, 31 Ekim - 01 Kasım 2019
- XII. **Investigating the Mechanical Behavior of the Modified P91 Steel at Elevated Temperatures**
GÜR C. H., Aslam J.
7. Uluslararası Demir ve Çelik Sempozyumu, İzmir, Türkiye, 26 - 27 Eylül 2019, ss.374-376
- XIII. **Microstructure characterization of heat-treated ferromagnetic steels by magnetic barkhausen noise method**
GÜR C. H.
5th World Congress on Mechanical, Chemical, and Material Engineering, MCM 2019, Lisbon, Portekiz, 15 - 17 Ağustos 2019
- XIV. **Non-Destructive Characterization of Cold Rolled Low-Carbon Steels**
Grum J., Gür C. H., Yelbay H. İ., Sturm R., Pechnik B.
19th International Metallurgy Materials Congress, İstanbul, Türkiye, 25 - 27 Ekim 2018, ss.354-356
- XV. **Non-Destructive Determination of Surface Residual Stresses in the Carburized SAE 8620 Steel Components**
KALELİ T., GÜR C. H.
19th International Metallurgy and Materials Congress, İstanbul, Türkiye, 25 - 27 Ekim 2018, ss.1007-1010
- XVI. **Non-Destructive Evaluation of Surface Residual Stresses in Shot-Peened Steels**
ÇALIŞKAN S., GÜR C. H.
19th International Metallurgy and Materials Congress, İstanbul, Türkiye, 25 - 27 Ekim 2018, ss.1031-1034
- XVII. **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, Türkiye, 25 - 27 Ekim 2018, ss.1108-1111
- XVIII. **Comparison of Nondestructive Stress Measurement Techniques for Determination of Residual Stresses in the Heat Treated Steels**
Hizli H., GÜR C. H.
10th European Conference on Residual Stress (ECRS 10), Leuven, Belçika, 11 - 14 Eylül 2018, cilt.6, ss.165-170
- XIX. **E-learning Options for NDT Training**

- YELBAY H. İ., GÜR C. H.
12th European Conference for Nondestructive Testing, Gothenburg, İsveç, 11 - 15 Haziran 2018
- XX. **Comparison of Two Procedures for Reliable Measurement of Residual Stress in Carburized Steels by Magnetic Barkhausen Noise Method**
KALELİ T., GÜR C. H.
12th European Conf. for Nondestructive Testing, Gothenburg, İsveç, 11 - 15 Haziran 2018
- XXI. **Investigating the Relationship between Shot-Peening Severity and Fatigue Life of AISI 4140 Steel by Magnetic Barkhausen Method**
ÇALIŞKAN S., GÜR C. H.
12th European Conf. for Nondestructive Testing, Gothenburg, İsveç, 11 - 15 Haziran 2018
- XXII. **Nondestructive Determination of Curing State of Rubbers during Vulcanization Process**
ülger c., Aydın E., YELBAY H. İ., Kutlu A., GÜR C. H.
12th European Conference for Nondestructive Testing, Gothenburg, İsveç, 11 - 15 Haziran 2018
- XXIII. **Comparison of Two Procedures for Reliable Measurement of Residual Stress in Carburized Steels by Magnetic Barkhausen Noise Method**
Gür C. H., Kaleli T.
12th European Conf. for NDT, Gothenburg, İsveç, 11 - 15 Haziran 2018, ss.22737
- XXIV. **Kaynak İşlemi Nedeniyle Oluşan Kalıntı Gerilmelerin Mikro-Manyetik Teknikle Tahribatsız Olarak Ölçülmesi,**
KALELİ T., YELBAY H. İ., GÜR C. H.
10. Ulusal Kaynak Teknolojisi Kongresi, Ankara, Türkiye, 17 - 18 Kasım 2017
- XXV. **Alın Kaynaklı Yapısal Çeliklerdeki Kalıntı Dağılımının Konstrüksiyon Güvenliğine Etkisi**
GÜR C. H., BATIGÜN C.
10. Ulusal Kaynak Teknolojisi Kongresi, Ankara, Türkiye, 17 - 18 Kasım 2017
- XXVI. **Monitoring the Directional Variations of Magnetic Barkhausen Emission in Ferritic Steel Sheets**
GÜR C. H., AKÇAOĞLU Ü.
12th Int. Conf. on Barkhausen Noise and Micromagnetic Testing, Dresden, Almanya, 24 - 26 Eylül 2017
- XXVII. **Nondestructive Monitoring of Pearlite Degradation in Medium Carbon Steels by Magnetic Barkhausen Noise Method**
GÜR C. H.
14th Int Conf. of Slovenian Society for Non-Destructive Testing, Portoroz, Slovenya, 4 - 06 Eylül 2017
- XXVIII. **The Effects of ECAP on the Precipitation Behavior of Al 2024**
TAN G., KALAY Y. E., GÜR C. H.
TMS 2017 146th Annual Meeting and Exhibition, 26 Şubat - 02 Mart 2017
- XXIX. **Nondestructive Characterization of Microstructures of Heat-Treated Steels by Magnetic Barkhausen Noise Technique**
GÜR C. H.
TMS Annual Meeting and Exhibition / Symposium on Characterization of Minerals, Metals, and Materials, California, Amerika Birleşik Devletleri, 01 Ocak 2017, ss.371-376
- XXX. **New possibilities on training of NDT personnel**
YELBAY H. İ., GÜR C. H., Yılmaz E.
14th International Conference of the Slovenian Society for Non-Destructive Testing: Application of Contemporary Non-Destructive Testing in Engineering, St. Bernardin/Portoroz, Slovenya, 4 - 06 Eylül 2017, ss.219-222
- XXXI. **Effect of Microstructure on Fracture Toughness of Coarse Grain Heat Affected Zone in As Welded X70M Steel**
CAGIRICI M., TOSUN U., GÜR C. H.
18th International Metallurgy and Materials Congress, İstanbul, Türkiye, 29 Eylül - 01 Ekim 2016, ss.928-931
- XXXII. **Measurement of Residual Stresses in the Carburized Steels by Non Destructive Techniques**
HIZLI H., KALELİ T., GÜR C. H.
18th International Metallurgy and Materials Congress, İstanbul, Türkiye, 29 Eylül - 01 Ekim 2016, ss.439-442
- XXXIII. **Non Destructive Determination of Residual Stresses in the Spiral Submerged Arc Welded Steel Pipes**

- KALELİ T., GÜR C. H.
19th World Congress for Non-Destructive Testing, Munich, Almanya, 13 - 17 Haziran 2016
- XXXIV. **PoD Analysis of Phased Array and Conventional Ultrasonic Techniques**
YALCIN M., YELBAY H. İ., GÜR C. H.
19th World Congress for Non-Destructive Testing, Munich, Almanya, 13 - 17 Haziran 2016
- XXXV. **Non destructive Monitoring of Variations in Microstructure and Residual Stress in the Carburized Steel**
HIZLI H., DAVUT K., ŞİMŞİR C., GÜR C. H.
19th World Congress for Non-Destructive Testing, Munich, Almanya, 13 - 17 Haziran 2016
- XXXVI. **Nondestructive Monitoring of the Variations in Microstructure and Residual Stress in the Carburized Steels**
Hızlı H., DAVUT K., ŞİMŞİR C., GÜR C. H.
19th World Conference on Non-Destructive Testing, Munich, Almanya, 13 - 17 Haziran 2016
- XXXVII. **Sementasyon İşlemi Uygulanan Çeliklerdeki Kalıntı Gerilmelerin Tahribatsız Tekniklerle Ölçülmesi**
HIZLI H., KALELİ T., GÜR C. H.
5. ISIL İŞLEM SEMPOZYUMU, İstanbul, Türkiye, 2 - 03 Haziran 2016, ss.59-66
- XXXVIII. **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, Türkiye, 20 - 21 Kasım 2015, ss.191-207
- XXXIX. **Demiryolu raylarında Kalıntı Gerilmelerin Manyetik Barkhausen Gürültüsü Yöntemi ile Ölçülmesi**
YELBAY H. İ., GÜR C. H.
9. Ulusal Kaynak Teknolojisi Kongresi, Ankara, Türkiye, 20 - 21 Kasım 2015, ss.301-307
- XL. **Applicability of Micromagnetic and Ultrasonic Methods for Non Destructive Monitoring of Microstructure Variations in Steels Induced by Heat Treatment**
GÜR C. H.
5th International Conference on Distortion Engineering, Bremen, Almanya, 23 - 25 Eylül 2015, ss.329-334
- XLI. **Nondestructive Monitoring of the Effects of Carburizing on 19CrNi5H Steel by Magnetic Barkhausen Noise Method**
HIZLI H., GÜR C. H.
11th International Conference on Barkhausen Noise & Micromagnetic Testing, Kuşadası, Türkiye, 18 - 20 Haziran 2015
- XLII. **Monitoring the Effects of Subsequent Weld Runs on Surface Residual Stresses in Steel Plates by Magnetic Barkhausen Noise Method**
ERİAN G., BATIGÜN C., ÇAM İ., GÜR C. H.
11th International Conference on Barkhausen Noise & Micromagnetic Testing, Kuşadası, Türkiye, 18 - 20 Haziran 2015
- XLIII. **Measuring the Surface Residual Stresses in Shot Peened Steel Components by Magnetic Barkhausen Noise Method 11th Int Conf on Barkhausen Noise Micromagnetic Testing**
GÜR C. H., Savaş S.
11th International Conference on Barkhausen Noise & Micromagnetic Testing, Kuşadası, Türkiye, 18 - 20 Haziran 2015
- XLIV. **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, Fransa, 14 - 18 Temmuz 2013
- XLV. **Investigating the effects of quenching and tempering on steel microstructures by Magnetic Barkhausen Noise method**
GÜR C. H., ÇAM İ.
6th International Quenching and Control of Distortion Conference: Quenching Control and Distortion, Including the 4th International Distortion Engineering Conference, Chicago, IL, Amerika Birleşik Devletleri, 9 - 13 Eylül 2012,

ss.258-265

- XLVI. Investigating the effect of number of weld passes on the residual stress state of steel plates by micro magnetic method**
Erian G., Batgün C., ÇAM İ., GÜR C. H.
16th International Metallurgy and Materials Congress, At Istanbul, Volume: CD Proceedings, pp. 903-911, İstanbul, Türkiye, 13 - 15 Eylül 2012, ss.903-911
- XLVII. 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, Türkiye, 11 - 17 Temmuz 2010, ss.643-649
- XLVIII. Metallurgical influence on quench distortion of SAE 52100 long cylinders**
Maradit B. P., Simsir C., Lubben T., Gur C. H.
65th ABM International Congress, 18th IFHTSE Congress and 1st TMS/ABM International Materials Congress 2010, Rio de Janeiro, Brezilya, 26 - 30 Temmuz 2010, cilt.6, ss.4833-4841
- XLIX. PREDICTION OF SURFACE RESIDUAL STRESSES IN BUTT-WELDED STEEL PLATES BY MAGNETIC BARKHAUSEN NOISE ANALYSIS**
GÜR C. H., YELBAY H. İ., ÇAM İ.
10th European Conference on Non-Destructive Testing (ECNDT 2010), Moscow, Rusya, 7 - 11 Haziran 2010, ss.31-36
- L. Kaynakların Tahribatsız Muayenesi**
KOLANKAYA O., DOYUM A. B., YELBAY H. İ., GÜR C. H.
Proc. 1st National Welding Technology Conference, 11 Haziran 2009, ss.698-709
- LI. Microstructural characterization of sic reinforced aluminum matrix composites**
Makszimus A., Pieczonka T., GÜR C. H., Tan E., Gacsi Z.
European International Powder Metallurgy Congress and Exhibition, Euro PM 2009, Copenhagen, Danimarka, 12 - 14 Ekim 2009, cilt.3
- LII. A new framework for simulation of heat treatments**
ŞİMŞİR C., GÜR C. H.
2nd International Conference on Distortion Engineering (IDE2008), Bremen, Almanya, 17 - 19 Eylül 2008, ss.471-479
- LIII. Investigation of the microstructure and hardness of SiCP reinforced aluminum matrix composites**
Makszimus A., Gácsi Z., GÜR C. H.
6th Hungarian Conference on Materials Science, Siofok, Macaristan, 14 - 16 Ekim 2007, cilt.589, ss.239-244
- LIV. Effect of ECAP and post-aging processes on 2024 aluminum alloy**
Saraloglu E., Tan E., GÜR C. H.
12th International Conference on Metal Forming, METAL FORMING 2008, Krakow, Polonya, 21 - 24 Eylül 2008, cilt.79, ss.467-471
- LV. Finite element investigation of the effect of hardening behavior of alloys on equal channel angular pressing performance**
Karpuz P., Simsir C., GÜR C. H., Kim H. S.
4th International Conference on Nanomaterials by Severe Plastic Deformation, Goslar, Almanya, 18 - 22 Ağustos 2008, ss.1021-1026
- LVI. INVESTIGATION OF THE MICROSTRUCTURE AND HARDNESS OF SiCP REINFORCED ALUMINUM MATRIX COMPOSITES**
MAKSZIMUS A., GACSI Z., Guer C. H.
6th Hungarian Conference on Materials, Science, Testing and Informatics, Siofok, Macaristan, 14 - 16 Ekim 2007, cilt.589, ss.239-240
- LVII. Microstructure characterization of SiCp-reinforced aluminum matrix composites by newly developed computer-based algorithms**
Kretz F., Gacsi Z., GÜR C. H.

- 2006 Powder Metallurgy World Congress and Exhibition, PM 2006, Busan, Güney Kore, 24 - 28 Eylül 2006, ss.909-912
- LVIII. **Investigation of microstructure inhomogeneity in SiCp-reinforced aluminum matrix composites**
Gacsi Z., GÜR C. H., Makszimus A., Pieczonka T.
2006 Powder Metallurgy World Congress and Exhibition, PM 2006, Busan, Güney Kore, 24 - 28 Eylül 2006, ss.901-904
- LIX. **Microstructure characterization of SiCp-reinforced aluminum matrix composites by newly developed computer-based algorithms**
Kretz F., Gacsi Z., GÜR C. H.
Power Metallurgy World Congress and Exhibition 2006, Busan, Güney Kore, 24 - 28 Eylül 2006, ss.909-910
- LX. **Ötektoidaltı çeliklerde Ae1-Ae3 sıcaklık aralığında östenit/ferrit faz dönüşümü için kinetik model**
GÜR C. H., KOLANKAYA O.
CD Proc of 12th Int Metallurgy-Materials Congress, 28 Eylül 2005, ss.1777-1783
- LXI. **FE Simulation of Steel Quenching to Investigate Residual Stresses and Distortion**
ŞİMŞİR C., GÜR C. H.
1st International Conference on Distortion Engineering (IDE2005), Bremen, Almanya, 14 - 16 Eylül 2005, ss.407-414
- LXII. **Comparison of the deep drawability of aluminum and steel using numerical simulation experiments**
Sonmez C., Tekkaya A., Gur C.
6th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes, Michigan, Amerika Birleşik Devletleri, 15 - 19 Ağustos 2005, cilt.778, ss.119-124
- LXIII. **Modeling of reversible gamma/alpha transformations of low carbon steels in the intercritical temperature range**
Reti T., Felde I., Gur H.
14th Congress of the International-Federation-for-Heat-Treatment-and-Surface-Engineering, Shanghai, Çin, 26 - 28 Ekim 2004, ss.702-705
- LXIV. **Investigation of internal stresses and microstructural evolution in quenched steel components by finite element analysis**
Gur C., Tekkaya A., Ozturk T., Schuler W.
5th European Conference on Advanced Materials and Processes and Applications (EUROMAT 97), Maastricht, Hollanda, 21 - 23 Nisan 1997, ss.637-640
- LXV. **Numerical and experimental investigation of quench process**
Gur C., Tekkaya A., Ozturk T.
2nd International Conference on Quenching and the Control of Distortion, Ohio, Amerika Birleşik Devletleri, 4 - 07 Kasım 1996, ss.305-314

Ansiklopedide Bölümler

I. Encyclopedia of Iron, Steel, and Their Alloys

Şimşir C., Gür C. H.

CRC, New York , ss.2892-2939 , 2016

Desteklenen Projeler

GÜR C. H., TÜBİTAK Uluslararası İkili İşbirliği Projesi, Magnetic Barkhausen Noise Emission Measurements for Evaluation of Steel Properties, 2015 - 2018

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, 34CRMO4 ÇELİĞİ İÇİN İÇYAPININ KISA ÇATLAKLARIN İLERLEMESİ ÜZERİNE ETKİSİ, 2017 - 2017

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, ZIRHLI ARAÇ İMALATINDA KULLANILAN 5000 SERİSİ ALÜMİNYUM

ALAŞIMLARIN ARK KAYNAĞINDA SÜRTÜNME KARIŞTIRMA YÖNTEMİ KULLANILARAK YORULMA DAYANCI İYİLEŞTİRME, 2017 - 2017

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, ÖRTÜLÜ ELEKTROD İLE ELEKTRİK ARK VE GAZALTI ARK KAYNAKLARI İLE BİRLEŞTİRİLEN API-5L-X70 ÇELİĞİNİN KIRILMA DAVRANIŞININ FARKLILIKLARI, 2017 - 2017

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, X70 BORU HATTI KAYNAKLARINDA ISI GİRDİSİNİN KIRILMA TOKLUĞUNA ETKİSİ, 2017 - 2017

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, Kaynaklı İmalatların Kontrolünde İleri Ultrasonik Muayene Teknikleriyle Hata Tespit Hassasiyetinin Araştırılması Ve Konvansiyonel Ultrasonik Teknikle Karşılaştırılması., 2012 - 2012

GÜR C. H., Yükseköğretim Kurumları Destekli Proje, Dp Çeliklerin Plazma Ark Kaynaklı Birleştirilmelerinde Mikroyapı Karakterizasyonu Ve Yorulma Çatlağı İlerleme Tavrının İncelenmesi, 2010 - 2010

Bilimsel Dergilerdeki Faaliyetler

Metals And Materials International, Editörler Kurulu Üyesi, 2021 - Devam Ediyor

Int. J of Microstructure & Materials Properties (IJMMP) _ Inderscience Publ, Editörler Kurulu Üyesi, 2005 - Devam Ediyor

Bilimsel Hakemlikler

TÜBİTAK Projesi, 1002 - Hızlı Destek Programı, Orta Doğu Teknik Üniversitesi, Türkiye, Eylül 2022

NDT AND E INTERNATIONAL, SCI Kapsamındaki Dergi, Ağustos 2022

TÜBİTAK Projesi, 3501 - Ulusal Genç Araştırmacı Kariyer Geliştirme Programı, Orta Doğu Teknik Üniversitesi, Türkiye, Haziran 2022

TÜBİTAK Projesi, 1505 - Üniversite-Sanayi İşbirliği Destek Programı, Orta Doğu Teknik Üniversitesi, Türkiye, Nisan 2022

TÜBİTAK Projesi, 1505 - Üniversite-Sanayi İşbirliği Destek Programı, Orta Doğu Teknik Üniversitesi, Türkiye, Nisan 2022

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, SCI Kapsamındaki Dergi, Ocak 2022

NONDESTRUCTIVE TESTING AND EVALUATION, SCI-E Kapsamındaki Dergi, Ağustos 2020

12th European Conference on Non-Destructive Testing , Diğer Dergiler, Ağustos 2017

Materials Science & Engineering B , SCI Kapsamındaki Dergi, Temmuz 2017

Applied Acoustics, SCI Kapsamındaki Dergi, Temmuz 2017

International Journal of Materials Research , SCI Kapsamındaki Dergi, Şubat 2017

ISTM - Springer, SCI Kapsamındaki Dergi, Şubat 2017

Journal of Magnetism and Magnetic Materials , SCI Kapsamındaki Dergi, Şubat 2017

International Journal of Microstructure and Materials Properties - Inderscience Publ, Diğer İndekslerce Taranan Dergi, Ocak 2017

Rare Metals, SCI Kapsamındaki Dergi, Ocak 2017

Etkinlik Organizasyonlarındaki Görevler

Şimsir C., Gür C. H., International Cold Forging Group, 56th Plenary Meeting, Çalıştay Organizasyonu, Ankara, Türkiye, Eylül 2023

Gür C. H., ICMATSE: Int Conf Adv Mater Sci & Eng and High-Tech Device Appl., Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Ekim 2022

Gür C. H., Keleş Ö., Orhan G., Ercan B., 20th International Metallurgy and Materials Congress , Bilimsel Kongre / Sempozyum Organizasyonu, Türkiye, Haziran 2021

Metrikler

Yayın: 156

Atf (WoS): 1163

Atf (Scopus): 1447

H-İndeks (WoS): 19

H-İndeks (Scopus): 20

Kongre ve Sempozyum Katılımı Faaliyetleri

Advances in Welding & Metal Additive Manuf. Technologies, Davetli Konuşmacı, İstanbul, Türkiye, 2023

3rd Int. Materials Technologies and Metallurgy Conf., Davetli Konuşmacı, İstanbul, Türkiye, 2023

Endüstri 4.0-PLM, Ege Üniversitesi, TÜBİTAK 2737 A etkinliği, Davetli Konuşmacı, İzmir, Türkiye, 2023

Endüstri 4.0-PLM, Ege Üniv., TUBITAK 2237-A etkinliği, Davetli Konuşmacı, İzmir, Türkiye, 2022

International Conf on Adv Mater Sci & Eng and High Tech Devices Applications , Davetli Konuşmacı, Ankara, Türkiye, 2022

Bosphorus International Heat Treatment Symposium, Davetli Konuşmacı, İstanbul, Türkiye, 2022

10. Ulusal Kaynak Teknolojisi Kongresi, Katılımcı, Ankara, Türkiye, 2017

12th Int. Conf. on Barkhausen Noise and Micromagnetic Testing, Katılımcı, Dresden, Almanya, 2017

14th Int Conf. of Slovenian Soc. for NDT, Katılımcı, Ljubljana, Slovenya, 2017

TMS 2017, Katılımcı, California, Amerika Birleşik Devletleri, 2017

Davetli Konuşmalar

WAM 2023 Advances in Welding & Metal Additive Manuf. Technologies, Konferans, İstanbul Gedik Üniversitesi, Türkiye, Ekim 2023

3rd International Materials Technologies and Metallurgy Conf., Konferans, Istanbul Technical University, Türkiye, Ekim 2023

International Conf on Adv Mater Sci & Eng and High Tech Devices Applications (ICMATSE 2022), Konferans, Gazi Üniversitesi, Türkiye, Ekim 2022

Bosphorus International Heat Treatment Symposium, Konferans, Metal Isıl İşlemciler Derneği (MISAD), Türkiye, Mayıs 2022

International Conference on Adv Mater Sci & Eng and High Tech Devices Applications (ICMATSE 2020), Konferans, Gazi University, Türkiye, Ekim 2020

Int. Materials Technologies and Metallurgy Conf., Konferans, İstanbul Teknik Üniversitesi, Türkiye, Ekim 2019

Non-Destructive Testing and Materials Characterization, Seminer, Northeastern University, Shenyang, Çin, Temmuz 2019

Modelling of phase transformations during quenching of steels, Seminer, Bay Zoltan Institute for Materials Sci and Technology, Budapest, Macaristan, Temmuz 2004

A finite element model for quenching of steels, Seminer, Otto-von-Guericke University, Magdeburg, Almanya, Temmuz 2004

Ödüller

GÜR C. H., 2010 Fellowship Award, International Federation of Heat Treatment and Surface Engineering (IFHTSE), Eylül 2010