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Personal Information

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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Metalurji, Turkey 1989 - 1995

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Metalurji, Turkey 1986 - 1989

Under Graduate, Middle East Technical University, Faculty of Engineering, Metalurji, Turkey 1981 - 1986

Foreign Languages

German, B1 Intermediate

English, B2 Upper Intermediate

Dissertations

Doctorate, Finite element modelling and measurement of stress evolution in quenching processes, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Metalurji Mühendisliği (Dr), 1995

Post Graduate, Finite element simulation of rigid-plastic deformation on micro-computers, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), 1989

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Mechanical Properties, Nondestructive Testing, Thermal Treatment, Material Characterization, Mechanical Metallurgy, Metallic Materials, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2008 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2002 - 2008

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1997 - 2002

Expert, Middle East Technical University, Faculty of Engineering, 1996 - 1997

Research Assistant, Middle East Technical University, Faculty of Engineering, 1988 - 1996

Professional Experience

Head of Department, Middle East Technical University, Müh. Fak., Metalurji Ve Malzeme Müh. Bl., 2012 - Continues
Director of the Center, Middle East Technical University, Presidency Office, Kaynak Teknolojisi Ve Tahribatsız Muayene Araştırma/Uygulama Merkezi, 2007 - Continues

Courses

Non-Destructive Evaluation of Materials, Under Graduate, 2019 - 2020

Advising Theses

- 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, Post Graduate, E.EROL(Student), 2019
- GÜR C. H. , Determination of shot peening effect on fatigue behavior of AISI 4140 steel by non-destructive measurement of surface residual stresses, Post Graduate, S.ÇALIŞKAN(Student), 2018
- GÜR C. H. , Investigating the fracture behaviour of X70M linepipe steel girth weldments via single edge notched tension and bend tests, Post Graduate, U.TOSUN(Student), 2018
- GÜR C. H. , YURTIŞIK K., Microstructure control of AISI 4135 for optimization of fatigue and fracture performance, Post Graduate, B.ÖZCAN(Student), 2018
- GÜR C. H. , Determination of residual stress state in AISI/SAE 8620 carburized steel by non-destructive testing methods, Post Graduate, T.KALELİ(Student), 2017
- GÜR C. H. , Numerical prediction and experimental investigation of fretting fatigue crack initiation at railway axle-wheel contacts, Doctorate, G.GÜRER(Student), 2017
- GÜR C. H. , YURTIŞIK K., Investigation of key-hole weldability of line pipe steel grade X70M in terms of fracture toughness, Post Graduate, M.ÇAĞIRICI(Student), 2017
- GÜR C. H. , BATIGÜN C., Numerical investigation of residual stresses, distortion and microstructure evolution in multi-pass welded steel components, Doctorate, N.GARIPOVA(Student), 2016
- GÜR C. H. , Nondestructive monitoring of the variations in microstructure and residual stress in the carburized steels, Post Graduate, H.HIZLI(Student), 2016
- GÜR C. H. , Utilization of friction stir processing to improve the mechanical properties of gas metal arc welded 5083 aluminum alloy plates, Post Graduate, S.TAKHT(Student), 2016
- GÜR C. H. , Investigating the reliability of ultrasound phased array method and conventional ultrasonic testing for detection of defects in austenitic stainless steels, Post Graduate, B.AKGÜN(Student), 2015
- GÜR C. H. , Effect of friction stir processing on fracture toughness and crack growth behaviour of fusion welded 5083 grade aluminum plates, Post Graduate, G.AKÇAY(Student), 2015
- GÜR C. H. , Chemical expansion in manganites, Post Graduate, M.HAZAR(Student), 2015
- GÜR C. H. , Characterization of SAE 52100 bearing steel for finite element simulation of through-hardening process, Post Graduate, O.MÜŞTAK(Student), 2014
- GÜR C. H. , EFFECTS OF FRICTION STIR PROCESSING ON MICROSTRUCTURE AND FATIGUE CRACK GROWTH BEHAVIOUR OF GAS METAL ARC (GMA) WELDED 5059 ALUMINUM ALLOY, Post Graduate, C.YAZGANARIKAN(Student), 2014
- GÜR C. H. , 304L östenitik paslanmaz çeliklerin aln kaynak işlemlerinde oluşan kalıntı gerilmelerin sayısal analizi ve deneysel ölçülmesi, Post Graduate, A.AZHDARFAEGHİBONAB(Student), 2014
- GÜR C. H. , Comparison of the flaw detection abilities of phased array and conventional ultrasonic testing methods in various steels, Post Graduate, M.YALÇIN(Student), 2014
- GÜR C. H. , KALAY Y. E. , Investigation of microstructural homogeneity and thermal stability of equal channel angular

pressed and aged 2024 Al alloy, Doctorate, G.KOTAN(Student), 2014
GÜR C. H. , ÖGEL B., Severe plastic deformation of age hardenable aluminum alloys, Doctorate, E.TAN(Student), 2012
GÜR C. H. , Investigation of the effects of equal channel angular extrusion on light weight alloys, Doctorate, P.KARPUZ(Student), 2012
GÜR C. H. , GÜRBÜZ R., Microstructural and mechanical characterization of duplex stainless steel grade 2205 joined by hybrid plasma and gas metal arc welding, Post Graduate, B.TOLUNGÜÇ(Student), 2012
GÜR C. H. , Determining surface residual stress in steel sheets after deep drawing and bulging operations, Post Graduate, S.ADIGÜZEL(Student), 2011
GÜR C. H. , Characterization of ultra-fine grained steel samples produced by high pressure torsion via magnetic Barkhausen noise analysis, Post Graduate, S.BAYRAMOĞLU(Student), 2009
GÜR C. H. , ÖGEL B., Design and production of a dissimilar channel angular pressing system to obtain high strength aluminum alloy sheets, Post Graduate, G.EMRE(Student), 2009
GÜR C. H. , 3D finite element simulation of steel quenching in order to determine the microstructure and residual stresses, Doctorate, C.ŞİMŞİR(Student), 2008
GÜR C. H. , Characterization of dual phase steels by using magnetic barkhausen noise analysis, Post Graduate, M.KAPLAN(Student), 2006
GÜR C. H. , Characterization of steel microstructures by magnetic Barkhausen noise technique, Post Graduate, K.DAVUT(Student), 2006
GÜR C. H. , Computer modeling with ANSYS software to investigate the evaluation of thermal stresses and residual stresses during quenching, Post Graduate, R.EREN(Student), 2001

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Determination of surface residual stresses in carburised AISI 8620 steel by the magnetic Barkhausen noise method**
Kaleli T., GÜR C. H.
INSIGHT, vol.62, pp.416-421, 2020 (Journal Indexed in SCI)
- **Effect of microstructural modification on damage tolerance of 34CrMo4 shaft steel**
Ozcan B., Gurer G., GÜR C. H.
FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, vol.43, pp.1214-1225, 2020 (Journal Indexed in SCI)
- **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, vol.61, pp.701-705, 2019 (Journal Indexed in SCI)
- **Failure analysis of fretting fatigue initiation and growth on railway axle press-fits**
GURER G., GÜR C. H.
ENGINEERING FAILURE ANALYSIS, vol.84, pp.151-166, 2018 (Journal Indexed in SCI)
- **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, vol.29, pp.221-236, 2018 (Journal Indexed in SCI)
- **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, vol.36, 2017 (Journal Indexed in SCI)
- **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, vol.677, pp.307-315, 2016 (Journal Indexed in SCI)

- **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, pp.418-423, 2016 (Journal Indexed in SCI Expanded)
- **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, pp.418-423, 2016 (Journal Indexed in SCI)
- **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, vol.71, pp.1493-1499, 2014 (Journal Indexed in SCI)
- **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, pp.831-836, 2014 (Journal Indexed in SCI)
- **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, pp.831-836, 2014 (Journal Indexed in SCI)
- **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, vol.18, pp.207-216, 2013 (Journal Indexed in SCI)
- **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, vol.559, pp.601-606, 2013 (Journal Indexed in SCI)
- **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, pp.5106-5114, 2012 (Journal Indexed in SCI)
- **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, vol.121, pp.3425-3432, 2011 (Journal Indexed in SCI)
- **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, vol.62, pp.391-397, 2011 (Journal Indexed in SCI)
- **Monitoring the Microstructural Evolution in Spheroidized Steels by Magnetic Barkhausen Noise Measurements**
DAVUT K., GÜR C. H.
JOURNAL OF NONDESTRUCTIVE EVALUATION, vol.29, pp.241-247, 2010 (Journal Indexed in SCI)
- **Monitoring variation of surface residual stresses in shot peened steel components by the magnetic Barkhausen noise method**
SAVAŞ S., GÜR C. H.
INSIGHT, vol.52, pp.672-677, 2010 (Journal Indexed in SCI)
- **INFLUENCE OF DCAP PROCESS ON THE MECHANICAL PROPERTIES OF 6061 Al-ALLOY SHEET**
Tan E., GÜR C. H.

- REVIEWS ON ADVANCED MATERIALS SCIENCE, vol.25, pp.189-193, 2010 (Journal Indexed in SCI)
Quantitative analysis of the influence of strain hardening on equal channel angular pressing process
ŞİMŞİR C., Karpuz P., GÜR C. H.
- COMPUTATIONAL MATERIALS SCIENCE, vol.48, pp.633-639, 2010 (Journal Indexed in SCI)
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, vol.527, pp.927-933, 2010 (Journal Indexed in SCI)
- **A Simulation of the Quenching Process for Predicting Temperature, Microstructure and Residual Stresses**
Simsir C., GÜR C. H.
- STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.56, pp.93-103, 2010 (Journal Indexed in SCI)
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, vol.43, pp.29-33, 2010 (Journal Indexed in SCI)
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-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.503, pp.148-151, 2009 (Journal Indexed in SCI)
- **A review on modeling and simulation of quenching**
Şimşir C., Hakan Gür C. H.
Journal of ASTM International, vol.6, 2009 (Journal Indexed in SCI Expanded)
- **A FEM based framework for simulation of thermal treatments: Application to steel quenching**
Şimşir C., GÜR C. H.
- COMPUTATIONAL MATERIALS SCIENCE, vol.44, pp.588-600, 2008 (Journal Indexed in SCI)
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, vol.27, pp.99-104, 2008 (Journal Indexed in SCI)
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, vol.207, pp.211-221, 2008 (Journal Indexed in SCI)
EFFECT OF ECAP AND POST-AGING PROCESSES ON 2024 ALUMINUM ALLOY
Saraloglu E., Tan E., GÜR C. H.
- STEEL RESEARCH INTERNATIONAL, pp.467-471, 2008 (Journal Indexed in SCI)
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, vol.19, pp.44-60, 2008 (Journal Indexed in SCI)
Monitoring the microstructural changes during tempering of quenched SAE 5140 steel by magnetic barkhausen noise
Davut K., Guer C. H.
- JOURNAL OF NONDESTRUCTIVE EVALUATION, vol.26, pp.107-113, 2007 (Journal Indexed in SCI)
Characterization of dual-phase steels using magnetic barkhausen noise technique
KAPLAN M., Guer C. H. , Erdogan M.
- JOURNAL OF NONDESTRUCTIVE EVALUATION, vol.26, pp.79-87, 2007 (Journal Indexed in SCI)
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, vol.58, pp.447-454, 2007 (Journal Indexed in SCI)

● **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, vol.351, pp.3655-3662, 2005 (Journal Indexed in SCI)

● **Characterization of microstructural phases of steels by sound velocity measurement**

Gur C. H. , Tuncer B.

MATERIALS CHARACTERIZATION, vol.55, pp.160-166, 2005 (Journal Indexed in SCI)

● **Microstructural investigation of SAE 1040 steel specimens by ultrasonic measurements**

Gur C. H. , Tuncer B.

INSIGHT, vol.47, pp.421-424, 2005 (Journal Indexed in SCI)

● **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, vol.382, pp.395-400, 2004 (Journal Indexed in SCI)

● **Investigation of microstructure-ultrasonic velocity relationship in SiCp-reinforced aluminium metal matrix composites**

GÜR C. H.

Materials Science and Engineering A, vol.361, pp.29-35, 2003 (Journal Indexed in SCI)

● **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, vol.19, pp.1590-1594, 2003 (Journal Indexed in SCI)

● **Ultrasonic characterisation of hot-rolled and heat-treated plain carbon steels**

Gur C., Keles Y.

INSIGHT, vol.45, pp.615-620, 2003 (Journal Indexed in SCI)

● **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, vol.44, pp.1335-1347, 2002 (Journal Indexed in SCI)

● **Numerical investigation of non-homogenous plastic deformation in quenching process**

GÜR C. H. , Tekkaya A. E.

Materials Science and Engineering A, pp.164-169, 2001 (Journal Indexed in SCI)

● **Investigation of SiCp reinforced aluminium matrix composites by shear and longitudinal ultrasonic waves**

Gur C.

INSIGHT, vol.43, pp.748-750, 2001 (Journal Indexed in SCI)

● **Microstructural characterisation of ductile irons by measuring velocity and apparent attenuation of ultrasonic waves**

Gur C., Aydinmakina B.

INSIGHT, vol.43, pp.731-734, 2001 (Journal Indexed in SCI)

● **Investigation of SiCp reinforced aluminium matrix composites by shear and longitudinal ultrasonic waves**

GÜR C. H.

Insight: Non-Destructive Testing and Condition Monitoring, vol.43, pp.748-750, 2001 (Journal Indexed in SCI)

● **Non-destructive microstructural characterization of aluminium matrix composites by ultrasonic techniques**

GÜR C. H. , ÖGEL B.

- **Materials Characterization**, vol.47, pp.227-233, 2001 (Journal Indexed in SCI)
Non-Destructive Testing Committee of the Turkish Chamber of Metallurgical Engineers
GÜR C. H.
- **Insight: Non-Destructive Testing and Condition Monitoring**, vol.40, pp.613-615, 1998 (Journal Indexed in SCI)
Quality management system in non-destructive testing laboratories: Accreditation as a testing laboratory
Gur C.
- **INSIGHT**, vol.40, pp.621-623, 1998 (Journal Indexed in SCI)
Untitled - Comment
Gur C.
- **INSIGHT**, vol.40, pp.602, 1998 (Journal Indexed in SCI)
The Non-Destructive Testing Committee of the Turkish Chamber of Metallurgical Engineers
Gur C.
- **INSIGHT**, vol.40, pp.613-615, 1998 (Journal Indexed in SCI)
Investigation of fatigue and creep damage in steam boiler pipes by ultrasonic testing
Tekin B., Gur C., Ankara O.
- **INSIGHT**, vol.39, pp.626-629, 1997 (Journal Indexed in SCI)
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, vol.39, pp.626-629, 1997 (Journal Indexed in SCI Expanded)
- **Effect of boundary conditions and workpiece geometry on residual stresses and microstructure in quenching process**
GÜR C. H. , TEKKAYA E., Schuler W.
- **STEEL RESEARCH**, vol.67, pp.501-506, 1996 (Journal Indexed in SCI)
Finite element simulation of quench hardening
Gur C., Tekkaya A.
- **STEEL RESEARCH**, vol.67, pp.298-306, 1996 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Review of Residual Stress Measurement by Magnetic Barkhausen Noise Technique**
GÜR C. H.
- **MATERIALS PERFORMANCE AND CHARACTERIZATION**, vol.7, pp.504-525, 2018 (Journal Indexed in ESCI)
Sementasyon İşlemi Uygulanan Çeliklerdeki Kalıntı Gerilmelerin Tahribatsız Tekniklerle Ölçülmesi
HIZLI H., KALELİ T., GÜR C. H.
- **METALURJİ**, pp.30-35, 2016 (Other Refereed National Journals)
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 (Refereed Journals of Other Institutions)
Description of the PM process by using Ishikawa-analysis
Simon A., Kovács K., GÜR C. H. , Pieczonka T., Gácsi Z.
- **Materials Science Forum**, vol.752, pp.48-56, 2013 (Refereed Journals of Other Institutions)
Characterization of steel microstructures by magnetic barkhausen noise technique
GÜR C. H.
- **RILEM Bookseries**, vol.6, pp.499-504, 2012 (Refereed Journals of Other Institutions)
Simulation of quenching: A review
GÜR C. H. , Şimşir C.
- **Materials Performance and Characterization**, vol.1, pp.1-37, 2012 (Journal Indexed in ESCI)

- **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, vol.5, pp.57-60, 2011 (Refereed Journals of Other Institutions)
- **A new framework for simulation of heat treatments**
Şimşir C., GÜR C. H.
International Journal of Microstructure and Materials Properties, vol.5, pp.399-411, 2010 (Refereed Journals of Other Institutions)
- **A review on modeling and simulation of quenching**
Şimşir C., Hakan Gür C. H.
ASTM Special Technical Publication, pp.117-156, 2010 (Refereed Journals of Other Institutions)
- **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, vol.4, pp.356-367, 2009 (Refereed Journals of Other Institutions)
- **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, vol.32, pp.85-100, 2008 (Refereed Journals of Other Institutions)
- **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, vol.1, pp.208-218, 2006 (Refereed Journals of Other Institutions)
- **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, vol.1, pp.51-60, 2005 (Refereed Journals of Other Institutions)
- **Modeling of reversible γ/α transformations of low carbon steels in the intercritical temperature range**
Reti T., Felde I., Gur H.
Cailiao Rechuli Xuebao/Transactions of Materials and Heat Treatment, vol.25, pp.702-705, 2004 (Refereed Journals of Other Institutions)
- **Numerical and experimental analysis of quench induced stresses and microstructures**
GÜR C. H. , TEKKAYA E.
JOURNAL OF MECHANICAL BEHAVIOUR OF MATERIALS, vol.9, pp.237-256, 1998 (Refereed Journals of Other Institutions)

Books & Book Chapters

- **Nondestructive Characterization of Microstructures of Heat-Treated Steels by Magnetic Barkhausen Noise Technique**
GÜR C. H.
in: Characterization of Minerals, Metals, and Materials, "Ikhmayies, S.", "Li, B.", "Carpenter, J.S.", "Li, J.", "et al", Editor, Springer-Verlag , Ny, pp.371-376, 2017
- **Chp. 17: Simulation of Quenching**
Şimşir C., GÜR C. H.

in: Quenching Theory & Technology, "Bozidar Liscic", "Hans M. Tensi", "Lauralice C.F. Canale", "George E. Totten", Editor, Crc Press Taylor & The Francis Press, Ny, pp.605-667, 2010

● **Handbook of Thermal Process Modeling of Steels**

GÜR C. H. , Pan J.

CRC, New York , Ny, 2008

Refereed Congress / Symposium Publications in Proceedings

● **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, Turkey, 15 - 16 November 2019

● **Materials Characterization using Nondestructive Methods**

GÜR C. H.

INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE, İstanbul, Turkey, 31 October - 01 November 2019

● **Investigating the Mechanical Behavior of the Modified P91 Steel at Elevated Temperatures**

GÜR C. H. , Aslam J.

7. Uluslararası Demir ve Çelik Sempozyumu, İzmir, Turkey, 26 - 27 September 2019, pp.374-376

● **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, Portugal, 15 - 17 August 2019

● **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, Turkey, 25 - 27 October 2018, pp.354-356

● **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

● **Non-Destructive Evaluation of Surface Residual Stresses in Shot-Peened Steels**

ÇALIŞKAN S., GÜR C. H.

19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.1031-1034

● **Non-Destructive Determination of Surface Residual Stresses in the Carburized SAE 8620 Steel Components**

KALELİ T., GÜR C. H.

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● **Comparison of Nondestructive Stress Measurement Techniques for Determination of Residual Stresses in the Heat Treated Steels**

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