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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-8280-2018

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Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey 2014 - 2024

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI), Turkey 2012 - 2014

Dissertations

Postgraduate, Orta karbonlu dual fazlı çeliklerde faz dönüşümlerinin termodinamik modellenmesi ve mikroyapısal karakterizasyonu, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI), 2014

Research Areas

Metallurgical and Materials Engineering

Academic Titles / Tasks

Research Assistant, Kocaeli University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği Anabilim Dalı, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Developing Ultra-High Strength Bainitic Steel by Hot Stamping Process and Anisothermal Holding**
ERİŞİR E., Barutçuoğlu B., BİLİR O. G., Uzunboy M., ZEREN M.
Steel Research International, 2024 (SCI-Expanded)
- Effect of Tempering on Mechanical Properties and Ballistic Performance of Novel Armor Steel by Hot Stamping**
Baser T. A., Barutcuoglu B., BİLİR O. G., ERİŞİR E.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.76, no.10, pp.2691-2699, 2023 (SCI-Expanded)
- Mechanical-Properties-Based Ballistic Performance Prediction of Candidate Armor Steels**
BİLİR O. G., Başer T., Barutçuoğlu B., Bayram A., Uzunboy M., ERİŞİR E.
Journal of Materials Engineering and Performance, vol.32, no.17, pp.7640-7650, 2023 (SCI-Expanded)

- IV. **Decarburization effects on high-cycle fatigue of uncoated press hardened steels**
Başer T. A., BİLİR O. G., Onaylı A., Bayram A., Barutçuoğlu B., Uzunboy M., ERİŞİR E.
Materialprüfung/Materials Testing, vol.65, no.9, pp.1322-1335, 2023 (SCI-Expanded)
- V. **Partial austenitisation and TBF steel composed of ferrite, bainitic ferrite, and austenite**
ERİŞİR E., BİLİR O. G., Sozer Y. E., ARARAT Ö., Davut K.
MATERIALS SCIENCE AND TECHNOLOGY, vol.39, no.1, pp.105-116, 2023 (SCI-Expanded)
- VI. **Modeling and simulation of hot stamping process for medium manganese steel alloy**
BİLİR O. G., Başer T. A., Karsi A., Bayram A., ERİŞİR E.
INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol.15, no.5, 2022 (SCI-Expanded)
- VII. **Enhancing Wear Resistance of 100Cr6 Bearing Steels by New Heat Treatment Method**
ERİŞİR E., ARARAT Ö., BİLİR O. G.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, vol.53, pp.850-860, 2022 (SCI-Expanded)
- VIII. **Effect of Intercritical Annealing Temperature on Martensite and Bainite Start Temperatures After Partial Austenitization**
ERİŞİR E., BİLİR O. G.
JOM, vol.68, no.1, pp.203-209, 2016 (SCI-Expanded)
- IX. **Effect of Intercritical Annealing Temperature on Phase Transformations in Medium Carbon Dual Phase Steels**
ERİŞİR E., BİLİR O. G.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.23, no.3, pp.1055-1061, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Study of martensitic-ferritic dual phase steels produced by hot stamping**
ERİŞİR E., BİLİR O. G.
IOP Conference Series: Materials Science and Engineering, vol.179, pp.12022, 2017 (Scopus)
- II. **A study of carbide dissolution in bearing steels using computational thermodynamics and kinetics**
ERİŞİR E., BİLİR O. G., GEZMİŞOĞLU A. E.
IOP Conference Series: Materials Science and Engineering, vol.179, pp.12021, 2017 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Carbide Dissolution Kinetics in 100Cr6 Steel Using Thermodynamical and Kinetic Calculations**
ERİŞİR E., BİLİR O. G., GEZMİŞOĞLU A. E.
INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE 2017, 26 - 27 October 2017
- II. **An investigation on Austenite Grain Growth in 100Cr6 Bearing Steel Microalloyed with Niobium**
ERİŞİR E., BİLİR O. G., ARARAT Ö.
International materials technologies and metallurgy conference 2017, 26 - 27 October 2017
- III. **The Effect of Initial Microstructure on the Hardening of 100Cr6 Bearing Steel**
ERİŞİR E., ARARAT Ö., BİLİR O. G.
METAL 2017, 24 - 26 May 2017
- IV. **Microstructural Investigation of Zinc Coatings during Press Hardening**
ERİŞİR E., BİLİR O. G.
METAL 2017, 24 - 26 May 2017
- V. **Examination of Solid State Nitrogen Absorption for Production of Nickel Free Stainless Steel**
BİLİR O. G., ERİŞİR E., İsmail G.
3rd International Iron and Steel Symposium, 3 - 05 April 2017
- VI. **Determining Retained Austenite Quantity and Composition with Heat Treatment Parameters in**

SAE52100 Steels

ERİŞİR E., BİLİR O. G., GEZMİŞOĞLU A. E.

3rd International Iron Steel Symposium, 3 - 05 April 2017

- VII. **The Effect of Prior Austenite Grain Size on Microstructure of Medium Carbon Dual Phase Steels**
ERİŞİR E., ARARAT Ö., BİLİR O. G.
3rd International Iron and Steel Symposium, 3 - 05 April 2017
- VIII. **Hot Stamping Process for Steel Parts with Higher Ductility**
ERİŞİR E., BİLİR O. G.
TMS 2017, 26 February - 02 March 2017
- IX. **Role of Initial Microstructure in Micro Constituents of Dual Phase Steels**
ERİŞİR E., BİLİR O. G.
TMS 2017, 26 February - 02 March 2017
- X. **Carbide Banding Formation And Prevention In 52100 Bearing Steels**
ERİŞİR E., BİLİR O. G., GEZMİŞOĞLU A. E.
TMS 2017, 26 February - 02 March 2017
- XI. **Study of Martensitic Ferritic Dual Phase Steels Produced by Hot Stamping**
ERİŞİR E., BİLİR O. G.
4th International Conference Recent Trends in Structural Materials, Pilsen, Czech Republic, 11 November 2016
- XII. **A study of carbide dissolution in bearing steels using computational thermodynamics and kinetics**
ERİŞİR E., BİLİR O. G., Gezmişoğlu E.
4th International Conference Recent Trends in Structural Materials, Pilsen, Czech Republic, 11 November 2016
- XIII. **Nucleation and Growth of Austenite from Martensite during Reaustenization Using Phase Field Modeling**
ERİŞİR E., BİLİR O. G.
2nd International Iron and Steel Symposium (IISS'15), 1 - 03 April 2015
- XIV. **Examination of Dilatometer Curves for Reaustenization during Intercritical Annealing in the Two Phase alfa gamma Region**
ERİŞİR E., BİLİR O. G.
2nd International Iron and Steel Symposium (IISS'15), 1 - 03 April 2015
- XV. **Quantitative Analysis of Microstructure Constituents of Dual Phase Steels**
ERİŞİR E., BİLİR O. G.
2nd International Iron and Steel Symposium (IISS'15), 1 - 03 April 2015
- XVI. **A study of microstructure and phase transformations of medium carbon dual phase steels**
ERİŞİR E., BİLİR O. G., SEZEN M.
TMS Orlando 2015, TMS 144th Annual Meeting & Exhibition, 15 - 19 March 2015
- XVII. **Phase field modeling of microstructural evolution during intermediate quenching and intercritical annealing of medium carbon dual phase steels**
ERİŞİR E., BİLİR O. G.
TMS Orlando 2015, TMS 144th Annual Meeting & Exhibition, 15 - 19 March 2015
- XVIII. **Effect of annealing temperature on martensite start temperature in intercritical region**
ERİŞİR E., BİLİR O. G.
TMS Orlando 2015, TMS 144th Annual Meeting & Exhibition, 15 - 19 March 2015
- XIX. **The Effect of Heat Treatment on Tribological Properties of High Speed Steels**
TÜREDİ E., ERİŞİR E., BİLİR O. G.
VI.th International Metallurgical Congress, Ohrid, Macedonia, 29 May - 01 June 2014
- XX. **Orta karbonlu dual fazlı çeliklerde ara su verme işlemi sonrası mikroyapısal incelemeler**
ERİŞİR E., BİLİR O. G.
XXI. Ulusal Elektron Mikroskopi Kongresi Özet Kitabı, Turkey, 19 May 2013, pp.471-474
- XXI. **Microstructural characterization of medium carbon dual phase steels after intermediate quenching**
ERİŞİR E., GÜMÜŞ S., BİLİR O. G.
METAL2013, Brno, Czech Republic, 15 - 17 May 2013, vol.12, pp.1-6

XXII. Microstructural Characterization of Medium Carbon Dual Phase Steels after Intermediate Quenching

ERİŐİR E., BİLİR O. G.

22st International Conference on Metallurgy and Materials, 5 - 07 May 2013

Supported Projects

Bilir O. G., TUBITAK Project, GeliŐmiŐ Tehdit Yansıtma İin Textürlü Zırh eliĐi Formu Ve Uygun AlaŐım/proses Tasarımı GeliŐtirilmesi , 2023 - 2025

ERİŐİR E., ZEREN M., BİLİR O. G., Project Supported by Higher Education Institutions, Hot Stamping Yöntemi ile TRIP Katkılı elik Üretimi, 2020 - 2021

Scientific Refereeing

STEEL RESEARCH INTERNATIONAL, SCI Journal, November 2023

Metrics

Publication: 33

Citation (WoS): 34

Citation (Scopus): 53

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