

Res. Asst. PhD TUĞÇE KALELİ ALAY

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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 2017 - 2023

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2014 - 2017

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2009 - 2014

Foreign Languages

German, A1 Beginner

English, C2 Mastery

Italian, A1 Beginner

Certificates, Courses and Trainings

Vocational Training, Ultrasonik Muayene Seviye 2, ODTÜ KAYNAK TEKNOLOJİ ve TAHRİBATSIZ MUAYENE MERKEZİ, 2014

Research Areas

Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, pp.1-19, 2024 (SCI-Expanded)
- II. **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, vol.884, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sementasyon İşlemi Uygulanan Çeliklerdeki Kalıntı Gerilmelerin Tahribatsız Tekniklerle Ölçülmesi**
HIZLI H., KALELİ T., GÜR C. H.
METALURJİ, pp.30-35, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Aging Heat Treatment on Microstructure and Mechanical Properties of Additively Manufactured 18Ni300 Maraging Steel**
Aydın İ., Kaleli Alay T., Gür C. H.
Bosphorus International Heat Treatment Symposium, İstanbul, Turkey, 11 - 13 May 2022, pp.78-84
- II. **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, Turkey, 6 - 08 October 2022, pp.599
- III. **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, Turkey, 10 - 12 June 2021, vol.1, pp.275
- IV. **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, Turkey, 25 - 27 October 2018, pp.1007-1010
- V. **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, Sweden, 11 - 15 June 2018, pp.22737
- VI. **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, Sweden, 11 - 15 June 2018
- VII. **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, Turkey, 17 - 18 November 2017
- VIII. **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, Turkey, 29 September - 01 October 2016, pp.439-442
- IX. **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, Germany, 13 - 17 June 2016

Metrics

Publication: 12

Citation (WoS): 5

Citation (Scopus): 5

H-Index (WoS): 1

H-Index (Scopus): 1