

## Res. Asst. PhD TUĞÇE KALELİ ALAY

### 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 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

- 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. **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
- II. **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
- III. **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
- IV. **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
- V. **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: 11