

Res. Asst. HASAN İLKER YELBAY

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2010 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 2006 - 2009

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Determination of residual stress state in steel weldments / Kaynaklı plakalarda kalıntı gerilimlerin ölçülmesi, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2009

Research Areas

Electrical and Magnetic Properties, Nondestructive Testing, Material Characterization, Electronic and magnetic devices, microelectronics, Materials Science, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Presidency Office, Presidency Office, 2007 - Continues

Academic and Administrative Experience

Deputy Director of the Center, Middle East Technical University, Presidency Office, Kaynak Teknolojisi ve Tahribatsız Muayene Merkezi, 2024 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, no.1, pp.29-33, 2010 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **E-learning Options for NDT Training**
YELBAY H. İ., GÜR C. H.
12th European Conference for Nondestructive Testing, Gothenburg, Sweden, 11 - 15 June 2018
- III. **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, Sweden, 11 - 15 June 2018
- IV. **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
- V. **New possibilities on training of NDT personnel**
YELBAY H. İ., GÜR C. H., Yilmaz E.
14th International Conference of the Slovenian Society for Non-Destructive Testing: Application of Contemporary Non-Destructive Testing in Engineering, St. Bernardin/Portoroz, Slovenia, 4 - 06 September 2017, pp.219-222
- VI. **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, Germany, 13 - 17 June 2016
- VII. **Demiryolu raylarında Kalıntı Gerilmelerin Manyetik Barkhausen Gürültüsü Yöntemi ile Ölçülmesi**
YELBAY H. İ., GÜR C. H.
9. Ulusal Kaynak Teknolojisi Kongresi, Ankara, Turkey, 20 - 21 November 2015, pp.301-307
- VIII. **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, Russia, 7 - 11 June 2010, pp.31-36
- IX. **Kaynakların Tahribatsız Muayenesi**
KOLANKAYA O., DOYUM A. B., YELBAY H. İ., GÜR C. H.
Proc. 1st National Welding Technology Conference, 11 June 2009, pp.698-709

Metrics

Publication: 10
Citation (WoS): 87
Citation (Scopus): 106
H-Index (WoS): 1
H-Index (Scopus): 1

Congress and Symposium Activities

AMC 2024 Additive Manufacturing Conference, Attendee, Antalya, Turkey, 2024

KAYNAK TEKNOLOJİSİ 13. ULUSAL KONGRE VE SERGİSİ, Attendee, Ankara, Turkey, 2023

4. NDT Günleri, Attendee, Bursa, Turkey, 2023

3. NDT Günleri, Attendee, Bursa, Turkey, 2022

Invited Talks

NDT Days, Conference, UCTEA CHAMBER OF MECHANICAL ENGINEERS, Turkey, October 2021