



EMRE BAL

ASST. PROF.

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International Researcher IDs

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Publons / Web Of Science ResearcherID: C-4748-2016

ScopusID: 57195775899

Yoksis Researcher ID: 122650



Learning Knowledge

Doctorate 2013 - 2020	Istanbul Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, Turkey
Postgraduate 2009 - 2012	Istanbul Technical University, Fen Bilimleri Enstitüsü, Malzeme Mühendisliği, Turkey
Undergraduate 2004 - 2009	Istanbul Technical University, Kimya - Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği, Turkey

Foreign Languages

Russian, B1 Intermediate

English, C1 Advanced

Certificates, Courses and Trainings

Other, 2. International Welding Technologies and Exhibition, Welding Technologies Society, 2012

Other, Int. Congress on Advances In Welding Science And Technoogy for Construction, Energy&Trans. Systems, AWST, 2011

Education Management and Planning, Phased Array Tahribatsız Muayene, MAK Elektronik, 2010

Education Management and Planning, Kaynak Mühendisliği ve Teknolojileri Hakkında Temel Bilgiler., İTÜ - GEDİK KAYNAK, 2009

Education Management and Planning, Sivil Havacılık Güvenliği, İç İşleri Bakanlığı - Ulaştırma Bakanlığı, 2008

Education Management and Planning, Sermaye Piyasası, İMKB Hisse Senetleri Piyasası, İMKB Eğitim ve Yayın Bölümü, 2006

Dissertations

Doctorate, Eriyik Cama (CMAS) Dayanıklı Uçak Motoru Kaplamalarının Plazma Püskürtme Yöntemi ile Üretilmesi, Istanbul Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, 2015

Postgraduate, Doğal Gaz Boru Hatları Yüksek Gerilimli Kaynak Ana Malzemesi Teknolojisinin Geliştirilmesi (BORKAY) - SANTEZ, Istanbul Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, 2012

Academic Titles / Tasks

Assistant Professor 2021 - Continues	Akdeniz University, Faculty of Engineering, Department of Materials Science and Engineering
Lecturer PhD 2013 - 2021	Akdeniz University, Technical Sciences Vocational School, Department of Electricity and Energy

Published journal articles indexed by SCI, SSCI, and AHCI

- THERMAL SHOCK BEHAVIOR OF LANTHANUM ZIRCONATE-BASED THERMAL BARRIER COATINGS**
Karabas M., BAL E.
Surface Review and Letters, vol.31, no.4, 2024 (SCI-Expanded)
- Effect of molten glass on degradation of stabilized zirconia thermal barrier coatings**
BAL E., Karabaş M.
Journal of the Korean Ceramic Society, vol.60, no.2, pp.331-343, 2023 (SCI-Expanded)
- Thermal cycling behavior of La₂Zr₂O₇ thermal barrier coatings by plasma spraying of an amorphous and crystalline precursors**
Karabas M., BAL E., Taptık İ. Y.
MATERIALS RESEARCH EXPRESS, vol.6, no.1, 2019 (SCI-Expanded)
- The effect of CMAS interaction on thermal cycle lifetime of YSZ based thermal barrier coatings**
Bal E., Karabas M., Taptık İ. Y.
MATERIALS RESEARCH EXPRESS, vol.5, no.6, 2018 (SCI-Expanded)
- Hot corrosion behaviour of plasma sprayed alumina plus YSZ particle composite coating**
Karabas M., BAL E., Taptık İ. Y.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.53, no.5, pp.859-863, 2017 (SCI-Expanded)
- Effect of Air Plasma Spray Parameters on the Properties of YSZ and CYSZ Thermal Barrier Coatings**
Karabas M., BAL E., Kılıç A., Taptık İ. Y.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.52, no.2, pp.175-182, 2016 (SCI-Expanded)

Articles Published in Other Journals

- Yeni Nesil Termal Bariyer Kaplama Malzemeleri**
BAL E., KARABAŞ M.
e-Makine Teknolojileri Elektronik Dergisi (elektronik), vol.12, pp.57-64, 2015 (Peer-Reviewed Journal)
- Orbital Kaynak Teknolojisi Kullanılarak Kaynak Edilen X65 ve X70 Çelik Boruların Mekanik ve Mikroyapı Özelliklerinin İncelenmesi**
BAL E., GENÇKAN H. D., TAPTIK İ. Y., KOÇAK M.
e-Makine Teknolojileri Elektronik Dergisi (elektronik), vol.10, pp.45-56, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Doğalgaz Tesisatı ve Kaynak Bilimi**
BAL E., KARABAŞ M.
Akdeniz Belediyeler Birliği, Antalya, 2017

Refereed Congress / Symposium Publications in Proceedings

1. **Static-Structural Analysis of Gas Turbine Blade Fabricated with Titanium Based MAX Phase Materials**
Bal E., Karabaş M.
6th International Conference on ADVANCES IN NATURAL & APPLIED SCIENCES, ICANAS 2022, Ağrı, Turkey, 10 - 13 October 2022, pp.176-182
2. **STRUCTURAL CHARACTERIZATION OF PLASMA SPRAYED ENVIRONMENTAL BARRIER COATING**
İhvan S., KARABAŞ M., BAL E., TAPTIK İ. Y.
ICAME 2021, İstanbul, Turkey, 20 October 2021
3. **Atmosferik Plazma Sprey Yöntemi İle Üretilen Farklı Seramik Kaplamaların Kuru Aşınma Davranışının İncelenmesi**
Avcı A., Akdoğan Eker A., Karabaş M., Bal E.
3.Uluslararası Mühendislik Mimarlık ve Tasarım Dergisi, İstanbul, Turkey, 4 - 05 May 2018, pp.205-206
4. **LASER SURFACE MODIFICATION OF LANTHANUM-YTTERBIUMZIRCONATE BASED THERMAL BARRIER COATINGS**
KARABAŞ M., BAL E., TAPTIK İ. Y.
MTM 2017, İstanbul, Turkey, 26 - 27 October 2017, vol.1, pp.125-128
5. **Degradation of Thermal Barrier Coatings with Molten CaO MgO Al₂O₃ SiO₂ CMAS Deposition and Hot Corrosion**
KARABAŞ M., BAL E., KILIÇ A., TAPTIK İ. Y.
18th International Metallurgy and Materials Congress, İstanbul, Turkey, 29 September - 01 October 2016, pp.810-813
6. **DEGREATION OF YSZ YSZ Al₂O₃ CSZ AND C YSZ Al₂O₃ TBCs AFTER THERMAL CYCLE TESTS**
BAL E., KARABAŞ M., TAPTIK İ. Y.
The IRES 25th International Conferences, Istanbul, Turkey, İstanbul, Turkey, 24 January 2016, vol.1, pp.17-23
7. **Investigation Into High Strength Steel Pipes Welded with Orbital Welding System**
BAL E.
IIW International Congress on Advances in Welding Science & Technology, Turkey, 1 - 04 October 2011, vol.1, no.1, pp.598-606
8. **Assessment Of Girth Welded X80 Grade Pipes**
BAL E., Gençkan H. D., Koçak M.
(AMPT 2011) 14th INTERNATIONAL CONFERENCE ON ADVANCES IN MATERIALS & PROCESSING TECHNOLOGIES, İstanbul, Turkey, 13 - 16 July 2011, pp.30-37

Courses

Malzemelerin Mekanik Özellikleri, Postgraduate, 2021 - 2022
Technical Drawing, Undergraduate, 2022 - 2023
Boru Kaynakçılığı, Associate Degree, 2022 - 2023, 2021 - 2022
Doğalgaz Sistemleri, Undergraduate, 2021 - 2022
Hasar Analizi, Postgraduate, 2021 - 2022
Bilgisayar Destekli Çizim, Undergraduate, 2021 - 2022
Material Technology, Postgraduate, 2021 - 2022

Bilgisayar Destekli Çizim 1, Associate Degree, 2020 - 2021
Malzeme Teknolojisi, Associate Degree, 2020 - 2021
Temel Tesisat İşlemleri, Associate Degree, 2020 - 2021
Kazan Yakma ve Yakıcılar, Associate Degree, 2014 - 2015
Kalite Güvencesi ve Standartlar, Associate Degree, 2013 - 2014
İş Güvenliği, Associate Degree, 2014 - 2015
Meslek Etiği, Associate Degree, 2013 - 2014
Doğal Gaza Giriş, Associate Degree, 2013 - 2014
Termodinamik, Associate Degree, 2014 - 2015

Metrics

Publication: 17
Citation (WoS): 29
Citation (Scopus): 25
H-Index (WoS): 4
H-Index (Scopus): 3

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Plating, Production Metallurgy, Iron and Steel
Production, Engineering and Technology