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International Researcher IDs

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Publons / Web Of Science ResearcherID: Q-5364-2019

Yoksis Researcher ID: 246542

Education Information

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Yapı Mühendisliği Bölümü, Turkey 2018 - Continues

Doctorate, University of Virginia, System and Environmental Engineering, Civil Engineering, United States Of America

2022 - 2023

Postgraduate, İstanbul Technical University, İnşaat Fakültesi, Yapı Mühendisliği Bölümü, Turkey 2015 - 2018

Undergraduate Double Major, İstanbul Technical University, Mimarlık Fakültesi, Mimarlık Bölümü, Turkey 2013 - 2017

Undergraduate, İstanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2010 - 2015

Dissertations

Postgraduate, SICAKLIK GENLEŞMESİ İKİ FARKLI MALZEMEDEN YAPILMIŞ LEVHALARDA TERMAL GERİLME ANALİZİ , İstanbul Teknik Üniversitesi, Mekanik, İnşaat Mühendisliği Bölümü, 2018

Research Areas

Technical Sciences, Civil Engineering, Mechanical, Structural Mechanics, Mechanics of Solid Bodies

Academic Titles / Tasks

Research Assistant, İstanbul Technical University, İnşaat, İnşaat Mühendisliği, 2016 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Boosted viscoelastic and dynamic mechanical behavior of binary nanocarbon based polyurethane hybrid nanocomposite foams**
Navidfar A., Bulut O., Baytak T., İskender H., Trabzon L.
JOURNAL OF COMPOSITE MATERIALS, vol.56, pp.2907-2920, 2022 (SCI-Expanded)
- II. **Thermal Stress in Functionally Graded Plates with a Gradation of the Coefficient of Thermal Expansion Only**
Baytak T., Bulut O.

- EXPERIMENTAL MECHANICS, vol.62, pp.655-666, 2022 (SCI-Expanded)
- III. Discussion on the manuscript entitled "Thermal residual stress in a functionally graded material system" by K. S. Ravichandran, Materials Science and Engineering A, 201(1-2), pp. 269-276
Baytak T., TOPCU İ., Bulut O.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.839, 2022 (SCI-Expanded)
- IV. Thermal stress analysis around a cavity on a bimetal
Baytak T., Bulut O.
STRUCTURAL ENGINEERING AND MECHANICS, vol.69, no.1, pp.69-75, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. The Effect of the Unanticipated Geometrical Change of Steel Base Plates' Mounting Holes on The Stress Distribution
Özdemir S., Baytak T., Tosun M., Bulut O.
El-Cezerî Journal of Science and Engineering, vol.7, no.2, pp.461-473, 2020 (Scopus)
- II. THE ANALYSIS OF A THERMAL STRESS STATE FOR INDUSTRIAL COMPOSITE PLATES
BAYTAK T., BULUT O.
Journal of Trends in the Development of Machinery and Associated Technology, vol.21, pp.113-116, 2018 (Peer-Reviewed Journal)
- III. STATIC ANALYSIS OF THE STRESS STATE CAUSED BY HEATING QUENCHING PROCESS IN TEMPERED GLASSES
DUMAN C. U., SÖNMEZ M. Ş., BAYTAK T., BULUT O.
Journal of Trends in the Development of Machinery and Associated Technology, vol.21, pp.121-124, 2018 (Peer-Reviewed Journal)
- IV. Effect of Temperature on stress of Y2O3-ZrO2 Insulation Coating on Stainless Steel Tape
Dönmez A. A., Bulut O., Baytak T., Tosun M., Ataoğlu Ş., İpek C., CAKIROGLU O.
Journal of Trends in the Development of Machinery and Associated Technology, vol.20, pp.65-68, 2016 (Peer-Reviewed Journal)
- V. Stress Analysis and Microstructure of the Al2O3/Cu/MgB2 wires
Ataoğlu Ş., Tosun M., Baytak T., Dönmez A. A., Bulut O., İpek C.
Journal of Trends in the Development of Machinery and Associated Technology, vol.20, pp.57-60, 2016 (Peer-Reviewed Journal)
- VI. Residual Stress and Microstructure of YSZ Buffer Layers for YBCO Coated Conductor
Bulut O., Dönmez A. A., Baytak T., İpek C., Tosun M., Ataoğlu Ş., cakiroğlu O.
Journal of Trends in the Development of Machinery and Associated Technology, vol.20, pp.61-64, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. THE EFFECT OF GRADATION OF ELASTIC MODULUS ON THE THERMAL STRESS OF A PLATE
BAYTAK T., BULUT O., ATAOĞLU Ş.
COIA 22, The 8 th International Conference on Control and Optimization with Industrial Applications Baku, Azerbaijan, 24-26 August, 2022, Azerbaijan, 24 August 2022
- II. Effect of Film Thickness on Structural and Mechanical Properties of Zn0.95Cu0.05O Thin Films
TOPCU İ., TOSUN M., BAYTAK T., BULUT O., İPEK C., ARDA L., ATAOĞLU Ş.
International Conference on Condensed Matter and Materials Science ICCMMS-2019, Adana, Turkey, 14 - 19 October 2019, pp.70
- III. Yanal Toprak Basınç Katsayısının Fotoelastisite Yöntemi ile Araştırılması

- BAYTAK T., ÇEVİKBİLEN G., BULUT O.
21. ULUSAL MEKANİK KONGRESİ, Turkey, 2 - 06 September 2019
- IV. **Effect of Temperature and Film Thickness on Residual Stress and Microstructure of Er doped ZnO Thin Films**
İPEK C., TOSUN M., BAYTAK T., BULUT O., DÖNMEZ A., ALPHAN M. C., ATAOĞLU Ş., ARDA L.
International Conference on Condensed Matter and Materials Science ICCMMS-2017, 11 - 15 October 2017
- V. **Effect of Temperatures on Residual Stress and Microstructure of 3d transition metals doped ZnO Thin Films**
BAYTAK T., ATAOĞLU Ş., TOSUN M., BULUT O., İPEK C., ARDA L.
International Conference on Condensed Matter and Materials Science (ICCMMS-2017), Adana, Turkey, 11 - 15 October 2017
- VI. **İNCE KOMPOZİT LEVHALARDA ANİZOTROP TERMAL GERİLME ANALİZİ**
BAYTAK T., BULUT O., MOLLAMAHMUTOĞLU Ç., DÖNMEZ a., ATAOĞLU Ş.
XX. Ulusal Mekanik Kongresi, Turkey, 5 - 09 September 2017
- VII. **TERMAL GERİLME PROBLEMİ İLE YÜZEY KUVVETLERİİNİN OLUŞTURDUĞU ELASTİK PROBLEMİN ANALOJİSİNE AİT DENEYSEL ÇALIŞMA**
BULUT O., BAYTAK T., TOSUN M., İPEK C., MOLLAMAHMUTOĞLU Ç., Abdulaliyev Z.
XX. Ulusal Mekanik Kongresi, Turkey, 5 - 09 September 2017
- VIII. **Stress analysis of twisted MgB₂ cable**
TOSUN M., İPEK C., DÖNMEZ A., BULUT O., BAYTAK T., ATAOĞLU Ş., ARDA L.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017
- IX. **Effect of Temperature and Film Thickness on Residual Stress and Microstructure of ZnMgO Thin Films**
BAYTAK T., TOSUN M., İPEK C., BULUT O., DÖNMEZ A., ATAOĞLU Ş., ARDA L.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), 28 - 30 June 2017

Metrics

Publication: 27

Non Academic Experience

University of Virginia