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International Researcher IDs

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Publons / Web Of Science ResearcherID: G-2875-2010

ScopusID: 8514191500

Yoksis Researcher ID: 34217

Education Information

Doctorate, Bogazici University, Institute Of Science, Makina Mühendisliği, Turkey 2003 - 2010

Postgraduate, Bogazici University, Institute Of Science, Makina Mühendisliği, Turkey 2001 - 2003

Undergraduate, Bogazici University, Faculty Of Engineering, Makina Mühendisliği, Turkey 1996 - 2001

Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2012 - Continues

Research Assistant PhD, University of Illinois at Urbana-Champaign, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2011 - 2012

Research Assistant, Bogazici University, Faculty Of Engineering, Makina Mühendisliği Bölümü, 2001 - 2011

Academic and Administrative Experience

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Fatigue crack initiation in Hastelloy X - the role of boundaries**
Abuzaid W., Oral A., Sehitoglu H., Lambros J., Maier H. J.
FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, vol.36, pp.809-826, 2013 (SCI-Expanded)
- II. Determination of Gurson-Tvergaard-Needleman Model Parameters for Failure of a Polymeric Material**
Oral A., Anlas G., Lambros J.
INTERNATIONAL JOURNAL OF DAMAGE MECHANICS, vol.21, pp.3-25, 2012 (SCI-Expanded)

- III. **Crack initiation in functionally graded materials under mixed mode loading: Experiments and simulations**
Oral A., Lambros J., Anlas G.
JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, vol.75, 2008 (SCI-Expanded)
- IV. **Effects of radially varying moduli on stress distribution of nonhomogeneous anisotropic cylindrical bodies**
Oral A., Anlas G.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, vol.42, pp.5568-5588, 2005 (SCI-Expanded)

Papers Published in Refereed Scientific Meetings

- I. **Orthotropic Response Characterization of Honeycomb Composites**
Oral A.
6th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2021, İstanbul, Turkey, 20 - 22 October 2021, pp.1-7
- II. **Shape Optimization of Wind Powered Vehicle Turbine System**
Oral A., Tekin M. M.
6th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2021, İstanbul, Turkey, 20 - 22 October 2021, pp.1-10
- III. **Multiaxial Fatigue Analysis of a Plastically Deformed Hook Using Critical Plane Theory**
Oral A., Dursun M., Şengün E. N., Aşçıoğlu Temiztaş B.
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.381-389
- IV. **Numerical and Analytical Analysis of Point Contact**
Aşçıoğlu Temiztaş B., Tekin N. C., Bayrak R., Oral A.
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.410-415
- V. **Towards a coupled loads-response-life prediction framework for hypersonic structures in combined extreme environments**
Sobotka J. C., Oral A., Culler A. J.
54th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Boston, MA, United States Of America, 8 - 11 April 2013
- VI. **Crack initiation angles in functionally graded materials under mixed mode loading**
Oral A., Abanto-Bueno J. L., Lambros J., Anlas G.
9th International Conference on Multiscale and Functionally Graded Materials, Hawaii, United States Of America, 15 - 18 October 2006, vol.973, pp.248-249
- VII. **Özellikleri fonksiyonel olarak değişen malzemelerde karışık mod yükleme altında çatlak başlama açıları ve gerilim şiddet çarpanları**
Oral A., Çopur I. H., Anlas G.
8. Uluslararası Kırılma Konferansı, İstanbul/TURKEY, İstanbul, Turkey, 07 November 2007, pp.10-19

Supported Projects

- Oral A., Şehitoğlu H., Project Supported by Public Organizations in Other Countries, Towards a Fatigue Initiation Theory for Multiaxial Thermo-mechanical Fatigue, 2010 - 2012
- Oral A., Anlas G., Project Supported by Higher Education Institutions, Investigation of Behavior of Shape Memory Alloys in terms of Fracture Mechanics, 2009 - 2010
- Oral A., Lambros J., Project Supported by Public Organizations in Other Countries, Three-Dimensional Effects in the Fracture of Functionally Graded Materials, 2003 - 2008

Oral A., Anlaş G., EU Supported Other Project, DeFESS: Design for Environmental Skills of Suppliers in Automotive Industry, 2005 - 2007

Metrics

Publication: 11

Scholarships

2214 - YURT DIŐI ARAŐTIRMA BURS PROGRAMI, TUBITAK, 2008 - 2009