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Personal Information

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International Researcher IDs

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

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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., Anlaş G.

INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, vol.42, pp.5568-5588, 2005 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

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., Anlaş 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., Anlaş 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

Citation (WoS): 83

Citation (Scopus): 92

H-Index (WoS): 4

H-Index (Scopus): 4

Scholarships

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