

Prof. ABDULLAH ULAŞ

Personal Information

Email: aulas@metu.edu.tr

Education Information

Doctorate, Pennsylvania State University, Makina Mühendisligi, United States Of America 1996 - 2000

Post Graduate, Pennsylvania State University, Makina Mühendisligi, United States Of America 1994 - 1996

Under Graduate, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, Turkey 1990 - 1994

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2012 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2007 - 2012

Assistant Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2002 - 2007

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2001 - 2002

Advising Theses

ULAŞ A., Optimization of air to air cross flow heat exchanger, Post Graduate, İ.ÇAĞATAY(Student), 2018

ULAŞ A., Design and Ground Testing of a Liquid Bi-Propellant Thruster, Post Graduate, Ç.YILMAZ(Student), 2017

ULAŞ A., Experimental and numerical study of detonation in a closed chamber, Post Graduate, T.İNCEKÜRK(Student), 2016

ULAŞ A., AN EXPERIMENTAL STUDY ON THE IGNITION AND COMBUSTION OF PYROTECHNIC COMPOSITIONS, Doctorate, S.KOÇ(Student), 2015

ULAŞ A., Design and development of a cylinder expansion test setup for determination of equation of state parameters of various explosives, Post Graduate, E.TOPKARAOĞLU(Student), 2014

ULAŞ A., Design and analysis of a high voltage exploding foil initiator for missile systems, Post Graduate, M.YUSUF(Student), 2013

Kurtuluş D. F. , Ulaş A., The effect of Geometric Design Parameters on the Flow Behavior of a Dual Pulse Solid Rocket Motor During Secondary Firing , Post Graduate, S.Erdem(Student), 2012

ULAŞ A., Drop test simulation of a munition with foams and parametric study on foam geometry and material, Post Graduate, B.GERÇEKER(Student), 2012

ULAŞ A., Analysis of internal explosion and structural response to blast loading, Post Graduate, U.CAN(Student), 2012

ULAŞ A., Design and validation of a combustion test rig for airbreathing rocket propulsion studies, Post Graduate, E.SONGÜR(Student), 2010

ULAŞ A., ÖZYÖRÜK Y., One and two dimensional numerical simulation of deflagration to detonation transition phenomenon in solid energetic materials, Doctorate, B.NARİN(Student), 2010

ULAŞ A., Design analysis and performance testing of a jet vane, Post Graduate, İ.KAYA(Student), 2009

ULAŞ A., BALLISTIC PERFORMANCE ANALYSIS OF MODERN BASE BLEED ARTILLERY PROJECTILES, Post Graduate, A.ÖKSÜZ(Student), 2009

ULAŞ A., An accelerated aerodynamic optimization approach for a small turbojet engine centrifugal compressor, Post Graduate, A.CEYLANOĞLU(Student), 2009

ULAŞ A., Analysis of regenerative cooling in liquid propellant rocket engines, Post Graduate, M.EMRE(Student), 2008
ULAŞ A., STUDY OF IGNITION CHARACTERISTICS OF A PLASTIC BONDED EXPLOSIVE, Post Graduate, E.AYDEMİR(Student), 2008
ULAŞ A., Steady-state modeling of detonation phenomenon in premixed gaseous mixtures and energetic solid explosives, Post Graduate, F.CENGİZ(Student), 2007
ULAŞ A., Design of a connected pipe test facility for ramjet applications, Post Graduate, M.NEVZAT(Student), 2005
ULAŞ A., Experimental study of solid propellant combustion instability, Post Graduate, A.ÇEKİÇ(Student), 2005
ULAŞ A., Analysis of 3-D grain burnback of solid propellant rocket motors and verification with rocket motor tests, Post Graduate, G.PÜSKÜLCÜ(Student), 2004

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Improved combustion model of boron particles for ducted rocket combustion chambers**
Kalpaklı B., Acar E. B. , ULAŞ A.
COMBUSTION AND FLAME, vol.179, pp.267-279, 2017 (Journal Indexed in SCI)
- **Characterization of BPN Pyrotechnic Composition Containing Micro- and Nanometer-Sized Boron Particles**
Koc S., ULAŞ A., Yilmaz N. E.
PROPELLANTS EXPLOSIVES PYROTECHNICS, vol.40, pp.735-742, 2015 (Journal Indexed in SCI)
- **Two dimensional numerical prediction of deflagration-to-detonation transition in porous energetic materials**
Narin B., ÖZYÖRÜK Y., ULAŞ A.
JOURNAL OF HAZARDOUS MATERIALS, vol.273, pp.44-52, 2014 (Journal Indexed in SCI)
- **Numerical analysis of regenerative cooling in liquid propellant rocket engines**
ULAŞ A., Boysan E.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.24, pp.187-197, 2013 (Journal Indexed in SCI)
- **Calculation of Detonation Properties of Gaseous Explosives Using Generalized Reduced Gradient Nonlinear Optimization**
ULAŞ A., Cengiz F.
PROPELLANTS EXPLOSIVES PYROTECHNICS, vol.36, pp.314-319, 2011 (Journal Indexed in SCI)
- **A numerical study on the thermal initiation of a confined explosive in 2-D geometry**
Aydemir E., ULAŞ A.
JOURNAL OF HAZARDOUS MATERIALS, vol.186, pp.396-400, 2011 (Journal Indexed in SCI)
- **An experimental study on the hypergolic ignition of hydrogen peroxide and ethanolamine**
Ak M. A. , ULAŞ A., Sumer B., Yazici B., Yildirim C., Gonc L. O. , Orhan F. E.
FUEL, vol.90, pp.395-398, 2011 (Journal Indexed in SCI)
- **Numerical prediction of steady-state detonation properties of condensed-phase explosives**
Cengiz F., ULAŞ A.
JOURNAL OF HAZARDOUS MATERIALS, vol.172, pp.1646-1651, 2009 (Journal Indexed in SCI)
- **3-D grain burnback analysis of solid propellant rocket motors: Part 1-ballistic motor tests**
Puskulcu G., ULAŞ A.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.12, pp.579-584, 2008 (Journal Indexed in SCI)
- **3-D grain burnback analysis of solid propellant rocket motors: Part 2-modeling and simulations**
Puskulcu G., ULAŞ A.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.12, pp.585-591, 2008 (Journal Indexed in SCI)
- **Laser-induced ignition of solid propellants for gas generators**
ULAŞ A., Kuo K. K.
FUEL, vol.87, pp.639-646, 2008 (Journal Indexed in SCI)
- **An investigation of the performance of a boron/potassium-nitrate based pyrotechnic igniter**
Ulas A., Risha G. A. , Kuo K. K.

Refereed Congress / Symposium Publications in Proceedings

- **Comparison of different aspect ratio cooling channel designs for a liquid propellant rocket engine**
Boysan M. E. , ULAŞ A., Toker K. A. , Seckin B.
3rd International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 14 - 16 June 2007,
pp.225-226
- **Experimental analysis on the measurement of ballistic properties of solid propellants**
Cuerdaneli S., Ak M. A. , ULAŞ A.
3rd International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 14 - 16 June 2007,
pp.231-232

Citations

Total Citations (WOS):138

h-index (WOS):7